

Oracle® Documaker

Studio User Guide

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Preface

Documaker Studio is a forms creation system that allows multiple users to work together to efficiently create form sets. Studio helps you manage the development process and maintain large electronic forms libraries.

Documaker Studio is designed for forms and business analysts who work to meet the requirements defined by the compliance group. It is used to create the dynamic document applications which are provided to production operations teams.

This document describes how to use Documaker Studio to create these documents.

AUDIENCE

This document is intended for the end users who will be using Documaker Studio to create, manage, and deploy the Documaker resource library.

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RELATED DOCUMENTS

For more information, refer to the following Oracle resources:

- Documaker Installation Guide
- Documaker Add-in for Microsoft Word Online Help
- Rules Reference
- DAL Reference

CONVENTIONS

The following text conventions are used in this document:

Convention	Description
bold	Indicates information you enter.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands, URLs, code in examples, and text that appears on the screen.

Chapter 1

Using Documaker Studio

Documaker Studio is the design IDE (Integrated Design Environment) for Documaker Standard, Enterprise, and Mobile. Studio is the design tool where you can create your form and document templates, build your business rules, map data and complete other tasks to create the version controlled library of resources used by Documaker to produce personalized content (documents, email, etc.)

This chapter includes information on these topics:

- Introduction on page 15
- Creating a Multiple User Development Environment and Workspace Managers on page 21
- Using this Guide on page 23
- Example Form on page 25
- Starting Studio on page 31
- Using System Menus on page 35
- Using a DBMS to Manage Resources on page 45

INTRODUCTION

Welcome to Documaker Studio, the application used for building source files for a Documaker implementation. Documaker Studio is a multi-user development system that promotes work-group and team-based development methodologies. Documaker Studio tackles the development process for building and maintaining large electronic forms libraries. Documaker Studio is designed for forms and business analysts who work to meet the requirements defined by the compliance group, and those who create the dynamic document applications provided to the production operations teams.

Studio lets multiple users work together in a library environment to construct graphics, documents, and rules for data and forms assembly. Studio lets you check in and check out the various resources you create so you don't have to worry about overwriting another user's work. Studio also lets you control who has access to the different tools within the product. Furthermore, Studio links user IDs to every resource you create and can track who made each modification. As a system administrator, you can even control who sets recipient copy counts, uses the scripting language, and runs testing scenarios. We will look at these features in greater detail throughout this guide.

Note Documaker creates and processes documents for a variety of businesses, including insurance companies, utility companies, and financial companies. Throughout this guide an insurance analogy is often used to provide examples. The documents may differ, but the process of creating and processing the documents is similar.

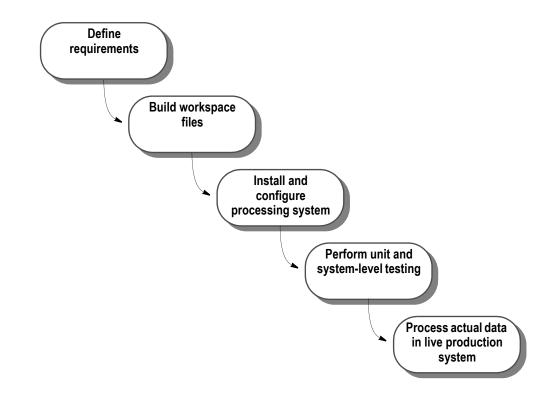
DOCUMAKER SYSTEM OVERVIEW

There are many different ways to implement the Documaker Server system. Documaker Server can operate on multiple platforms, with other Oracle Corporation products, and with third-party applications. The simplest solution entails an administration system supplying data on a company's customers to a Documaker system. The Documaker system incorporates these data elements into customized form sets, which will eventually produce a customer document set. These document sets include copies for other recipients, rendered in a variety of formats for different delivery methods (printers, online content, and fax).

Documaker can also change platforms and configuration settings as it moves from a *test* phase to a *production* phase. The typical Documaker implementation cycle includes the following:

- Building system resources
- Configuring the processing system
- Testing resources in a runtime environment
- Deploying the tested system in a production environment

Documaker Studio assists in all of these stages of construction, from building resources and the modification of configuration files, to the testing of form rules and recipient output and delivery options. Documaker Studio also has a deployment feature for moving resources to another location for use in production.



Note Documaker Studio is used to build a *workspace*, with all the forms, recipients, tables, fonts, graphics and rules used to fulfill a business unit's requirements for publishing. See *Documaker Studio Workspace Overview* on page 20 for a discussion of workspaces.

Documaker Server

As mentioned before, there are many possible configurations for a Documaker implementation. However, every implementation reads and processes certain input and output files. Other Documaker guides, including the Rules Reference, discuss configuration settings and job rules for producing specific output from a Documaker system. Here is a high-level Documaker processing workflow. Keep in mind your system may use different file types and may combine some of the processing steps shown here:

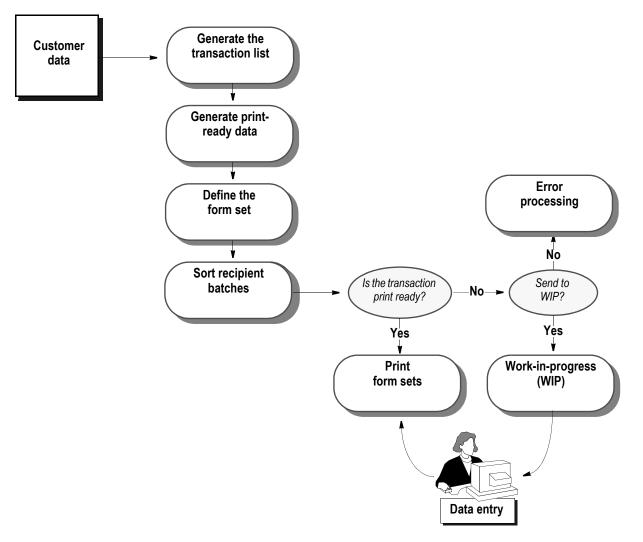


Figure 1: Documaker rules processing overview

In this figure, customer data is used by Documaker to generate a list of transactions (a transaction being any purpose for interacting with that customer's data: new business, policy updates, policy correspondence, and so on). Documaker Server then formats the data based on rules you specify. These rules include calculations and can specify alignment, decimal placement, and spacing. Based on rules for generating a document (called *triggers* in Documaker) you add via Documaker Studio, Documaker Server generates a set of forms for output which have a particular transaction type. Your Documaker configuration also determines which group or process (called *recipients*) receive a copy of the documents, and how many copies to produce. If the transaction is of a type that is print-ready, it will be produced as a print file, ready for a high-speed printer, or a PDF file, ready for online viewing.

Another possibility is that the transaction needs to be viewed or further manipulated in an interactive system prior to publishing. This is done through the Documaker Interactive as well as Documaker Desktop. These transactions can simply be checked for accuracy or be completed manually (for missing data, or adding personal correspondence). Transactions in WIP can be printed directly from WIP queues, or sent back to the original print output stack.

Documaker Server Logical System flow

The rules processing part of Documaker Server consists of these main programs: GenTran, GenData, GenPrint, and GenWIP.

- *GenTran* reads an input data file generated by a policy administration system. Based on configuration settings in the Documaker system, GenTran will identify each transaction in the data file, and write it out to an output file: the TRNFILE.
- *GenData* reads the TRNFILE to interpret the data input file, produces a forms lists for each transaction, and writes output files: a batch file for each Recipient, a NAFILE containing transaction data, and a POLFILE with form and print information. Any WIP transactions are also written to a separate batch file.
- *GenPrint* reads the GenData output files, and produces the print file in the specified format (Metacode, AFP, PDF and so on), using available device fonts and printer settings to publish the documents.
- *GenWip* is an optional program that reads any WIP transactions flagged by GenData and allows manipulation of these files via Documaker Desktop programs.

Each program produces log, error, and message files. The Documaker Batch Processing classes offered through Oracle University discuss these output files in detail. In the figure below is a high-level process flow for the Documaker Server programs.

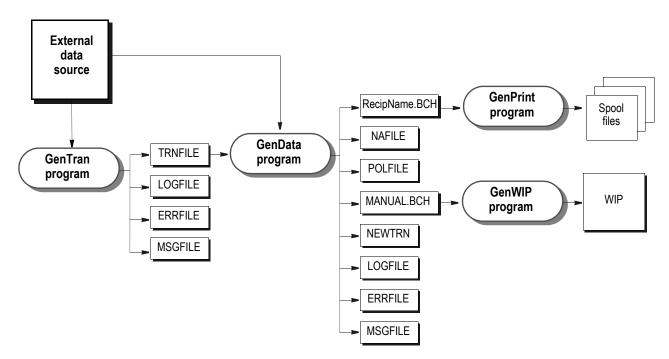


Figure 2: Documaker Server logical system flow

Documaker Studio Workspace Overview

For most Documaker implementations, there is great flexibility in how resources are built: some may already exist in other formats, which can be easily used by Documaker Studio, either as is or through conversion wizards (See *Converting Files* on page 693).

Some resources can be built entirely within the Studio. A particular group within your organization may work exclusively on documents and graphics, while other groups can format data and test form assembly rules.

Regardless of how work is assigned in your organization, all business groups can use Studio to design and implement a Documaker system.

Documaker Studio uses *workspaces* to build and maintain the resources used for a Documaker implementation. A workspace can be defined as the files created within the Studio, as well as files generated by the Documaker Server programs discussed earlier.

Workspaces are based on a multiple user module, where user IDs are linked to resources, so different users can create and update resources within a workspace at the same time without overwriting each other's work.

Before you begin working in Documaker Studio you must create or join a workspace. You can create a workspace from scratch or build one based on the resources already defined in an existing master resource library (MRL). You can import MRLs created by legacy Documaker tools, such as Docucreate, or from another Studio workspace.

As you create a workspace you must determine the following:

- If the workspace will be shared
- Where the workspace will be located
- What type of storage method you want for the workspace files

See Using a DBMS to Manage Resources on page 45 for more information.

If the workspace was created on a shared drive for others to join, then anyone wanting to be added to the new workspace, with their own set of reference files, is required to go through a process similar to the creation step. See *Working with Existing Run Time Documaker MRLs* on page 63 more information.

After the workspace is created, you can begin using the various tools within Documaker Studio. However, before proceeding, define security for your workstation environment. By doing so, you can become familiar with the Documaker Studio options and the various ways you can limit access rights to functions within the software. See *Managing Users* on page 107 in this guide for details on establishing security.

Note MRL or Workspace from 12.4 will not work in prior versions as there is a change in the encryption algorithm. This can be resolved by updating the credentials manually in the INI file settings.

CREATING A MULTIPLE USER DEVELOPMENT ENVIRONMENT AND WORKSPACE MANAGERS

Documaker Studio provides for multiple user development cycles. For several users to work on a given set of resources, the system must be able to manage the resources to prevent conflicts.

The key to effectively managing libraries of resources is in the files used to store information. These files are designed to facilitate multiple users throughout the life cycle of a project so you can move resources from development to testing and into production.

Note File names, types, and extensions, as well as menu names, options, and screen names can change during the development cycle.

The workspace managers used in Documaker Studio facilitate a multiple user environment. Managers create file types in the workspace file system. These files are accessed via user rights, and in a multiple user environment, they are checked out of the master library. They are checked back in with version and revision numbers and dates to prevent other overwriting. The workspace managers, and the file types they create in the file system outside of Documaker Studio, are shown below.

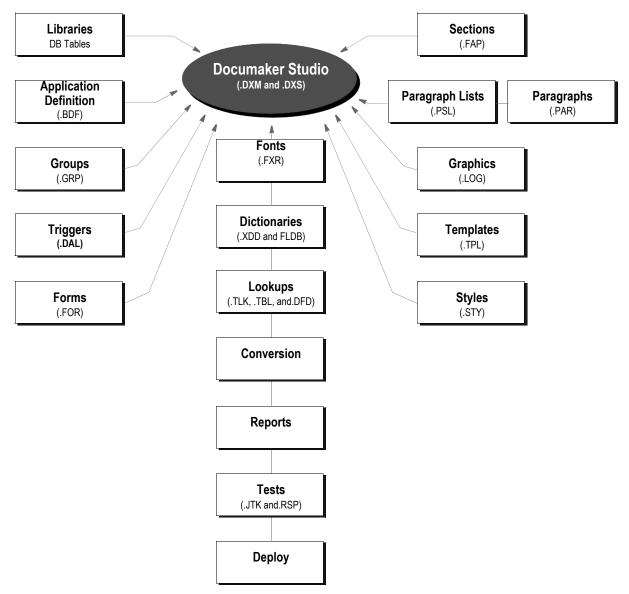


Figure 3: Documaker Studio Workspace Managers and Tools

The managers shown in this figure are discussed throughout this guide. For more information on library management in Documaker Studio, see *Managing Resources* on page 559.

Workspace Files

The use of library management in Documaker means that as a user you do not need to be familiar with the actual files types created in the file system outside Documaker Studio when you work in Studio. However, there are other types of files created by a Documaker Studio workspace that reside in the file system. Remember that the entire system comprised of a Studio Workspace and the files running behind the scenes in the file system are sometimes called the *Master Resource Library*, or MRL.

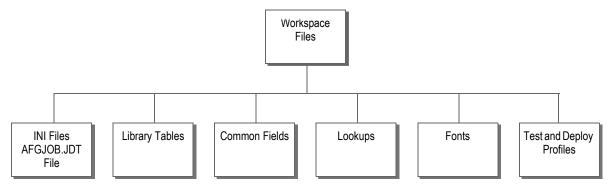


Figure 4: Documaker Studio Workspace and MRL files

This graphic shows a very high level view of the structure of the workspace resource files in Documaker Studio *MRL*. Most files reside in the library. Note that the configuration files, (known as the *.INI* files), the AFGJOB.JDT, the Common Fields dictionary, the Help lookup files, when applicable, the Batch and Definition lookup files, the font files, and the test and deploy profile files are not stored in the library. The Entry lookup files are, however, stored in the library.

The first step to working in Documaker Studio is to create a new workspace or join an existing workspace. Keep in mind that you can build a new, Studio workspace from an older, existing non-Studio MRL. The following steps in this guide demonstrate starting Documaker Studio and review the workspace creation wizard (*Using a DBMS to Manage Resources* on page 45) in Documaker Studio.

Using this Guide

This guide begins with a discussion of the available view and user settings for the Studio interface, then lists chapter topics in the order that they appear in the workspace tree that is seen when Studio is opened for the first time. Tools and managers are described in their vertical order in the workspace tree when opened by someone with full rights to all components of Studio.

Keep in mind that you may not have access to all functions in Documaker Studio (such as the Application level) and thus may not see that part of the workspace tree. This format is helpful for your introduction to the Studio components.

You can also work in the guide based on a possible example workflow and chapter links listed below, jumping to the chapters you need as you build your environment. This is helpful if you have to maintain a specific part of your MRL, or would like to see an example of a work order within Studio. The flexibility of Documaker Studio means that there are many different ways to start building your workspace: the following graphic is only one suggested workflow within Studio.

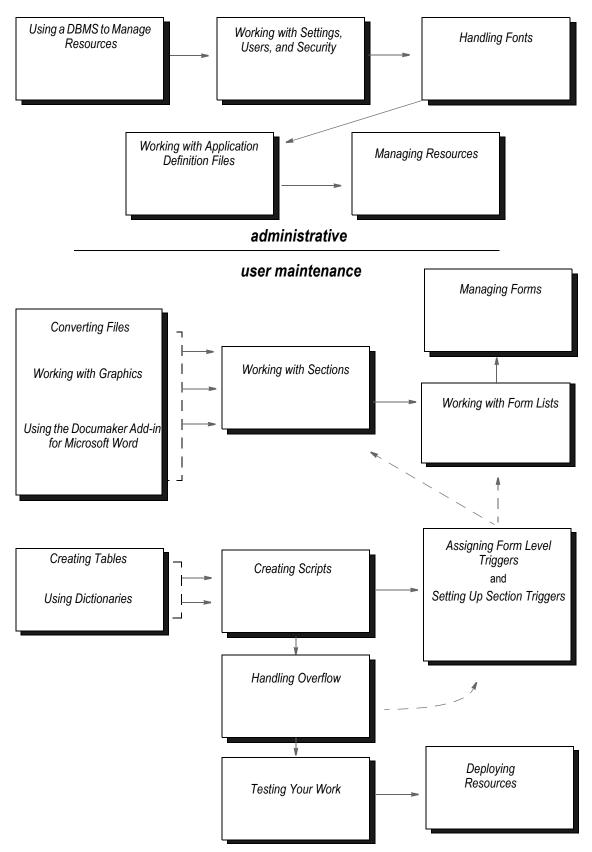


Figure 5: Suggested workflow for building a workspace

Example Form

There is a master example that will be used at the end of some of the chapters, if applicable, to help illustrate a common use of that manager or tool. This will be shown under the heading of 'Example: *scenario*' For example, "Example: Add a trigger to the Medical History form."

This example uses a simple form that is part of a larger batch processing implementation for the company *Training Company* and the line of business *Accident*. The form is called Medical History. The table below gives some requirement data on the implementation of this document:

Form Description	Section (FAP) file name	Key1/Key2	Recipient	Condition	Print and Overflow conditions
Medical History One record per section		Training Company		Prints when there is a treatment record for transaction	
	MEDHEAD1	LA ("Accident")	Insured, Agent, Home Office		header, can grow
	MEDHEAD2	LA ("Accident")	Insured, Agent, Home Office		header, not first, can grow, copy on overflow
	MEDBODY1	LA ("Accident")	Insured, Agent, Home Office	Prints once for every treatment record	can grow
	MEDFOOT1	LA ("Accident")	Insured, Agent, Home Office		footer, can grow, copy on overflow

Table 1: Medical History form

Medical History Form information

- This form is comprised of these sections: Medhead1, Medbody1, Medfoot1.
- Medhead2 only prints if this form grows to more than one page
- We want all the Treatment records in a transaction to print on the form. If the treatments records (questions and answers concerning a customer's treatment) fill more than 1 page, we want the form to continue onto new pages as long as there are records to print. This is an **Overflow** scenario.
- Medhead1, Medhead2 and Medbody1 contain text and fields within text areas.
- The Medbody1 section contains 2 fields, one for Question and one for Answer, embedded in text areas. This section will repeat as needed for each treatment record:

Objects 4	Fp	
MEDBODY1_0000100003_19800101		Page 1
O 🗶 ┥ 🕨 🏦 🕸		OUESTION
Page 1		
🖃 Fields		
QUESTION(244, 204)		
X DETAILS(3087, 204)		
🖆 Text Areas		
旨 (2967, 166)	\square	

• We will want the footer, Medfoot1, to copy onto any new pages that are generated for the form.

The data input file for this implementation is in the following XML tree structure:

!/MRL/RECORDNAME/FIELDNAME/DATAELEMENT

So a treatment record might be formatted in this way to pass the Treatment record information, such as UniqueID, and treatment questions and answers:

!/TRAININGCOMPANY/DATA/TREATMENT/RECORD !/TRAININGCOMPANY/DATA/TREATMENT/QUESTION/ !/TRAININGCOMPANY/DATA/TREATMENT/ANSWER

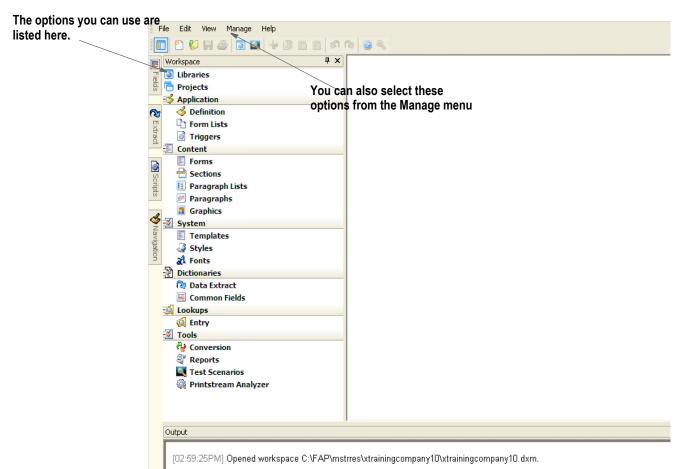
For more information, see *Sample XML used in Examples* on page 893. Here is how the Medical History form looks when complete:

	iningCompany Life and Accident: Mandatory Medical History rv is required for TrainingCompany Life & Accident to cover any and all policy holders. This medical
history is ma include diagr	ndatory for all ages in every state for all persons involved. Give details of "Yes" answers to Q6-21. noses, dates, physicians, and other medical practitioners. Show addresses and telephone numbers no This information will be stored for a total of seven years or until the policy is terminated.
Question 6i:	Extremities; In 2003 or 2004 had nail removed from foot, it was fine. Had a complete and full recovery; Dr. Call, 634 Beech St., Terre Hante, IN.
Question 7j:	Fair; See answer to question 6.
Question 11b:	Checkup; Routine physical 3 years ago with lab work and EKG; no adverse findings; Dr. Lenyo, 2100 N. Center St., Terre Haute, DI.
Question 21d:	X_ray; Had x_rays following the ankle surgery; Dr. H. A. Rose, 634 Beech St., Terre Haute, IN.
Question 41z:	Electrocardiogram; See answer to question 11b.
Question Se:	Extra mole; On neck, behind right ear, removed fragment of skin, it was benign. Had a complete and full recovery; Dr. H. A. Rosane, 634 Beech St., Terre Haute, IN.
Question Sj:	Checkup; See answer to question 6i.
Question 19b:	Checkup; Routine physical 2 years ago with lab work and EKG; no adverse findings; Dr. Lenyo, 2100 N. Center St., Terre Haute, DV.
Question 11d:	X_ray; Had x_rays following the surgery; Dr. H. A. Rosane, 634 Beech St., Terre Haute, D.
Question 17d:	Diogram; See answer to question 11b.
Question 6i:	Neck type: In 2008 a neck wrap was used for support. Had a complete and full recovery; Dr. H. A. Rosane, 634 Beech St., Terre Hante, IN.
Question 4j:	Neck; See answer to question 6i.
Question 11b:	Claeckup; Routine physical 1 year ago with lab work and EKG; no adverse findings; Dr. Lenyo, 2100 N. Canter St. Terre Haute, DV.

Note Any examples in this guide usually demonstrate one possible configuration for a given process. In Documaker there are different ways to achieve the same results, and legacy methods are supported in current versions of Documaker Studio. If your implementation is set up differently than shown in documentation, but is working, do not alter your current configuration.

STUDIO OPTIONS

Most options in Documaker Studio are used to create the resource objects that make up a *Master Resource Library* (MRL). The options appear when you open a workspace:



These resource objects are eventually used during the form entry process (Documaker Desktop) or in the forms processing cycle. In some cases, the objects are used during both processes.

		Used d	uring form	
Option	Used to	Entry	Processing	Required?
Libraries	Manage the libraries that contain the forms, sections, graphics, and other resources.	Yes	Yes	Yes
Projects	Associate a resources with a particular job or task.	No	No	No
Application				
Definition	Define a key combination comprised of a Key1 and Key2. Also defines recipients, categories, and transactions.	Yes	Yes	Yes

OptionUse toEntryProcessingRequired?Form ListsDefine the list of forms available to an opplication definition.YesYesYesTriggersDefine the list of forms available to an opplication definition.YesYesNoTriggersDefine the list of forms available to an oncoassing environment, Hutomation anguage (DAL).YesYesNoContentFormsCreate a list of the sections that comprise the form and to store triggering information.YesYesYesSectionsCreate and manage the sections that make up used for paragraph Selection at run-time.YesYesNoParagraph ListsBuild a list of paragraphs (PSL files) that are used for paragraph selection at run-time.YesYesNoOraphicsResize, reverse, rotate, and manipulate bitmap graphics used on sections.YesYesNoSystemFormanSection sections.YesYesNoStylesBuild form templates (TPL files) that can be used then maring sections. Yothen which shylics (Style files) that can be used then cannee resetting forms.YesYesStylesCreate and maintain the cross-reference table to use in your application definition.YesYesYesData ExtractCreate and maintain mapping information to use in your application definitionYesYesNoYesLibutonCreate and maintain morport field information to use in your application definitionYesYesYesYesData ExtractCreate an			Usea a	uring form	
application definition.NoticeNoticeTriggersCreate scripts that automate tasks within the processing environment. These scripts are created using Document Automation Language (DAL).YesYesNoContentCreate a list of the sections that comprise the form and to store triggering information.YesYesYesSectionsCreate and manage the sections that make up the forms.YesYesYesYesParagraph ListsBuild a list of paragraphs (PSL files) that are used for paragraph selection at run-time.YesYesNoParagraphsCreate and manage selectable paragraphs (PAR files) that can be assembled for a field at run-time.YesYesNoGraphicsResize, reverse, rotate, and manipulate bitmap graphics used on sections.YesYesNoSystemYesYesNoYesYesTemplatesBuild form templates (TPL files) that can be used when making sections. You define which style file to use in your application definition.YesYesNoSystemYesYesYesNoYesStylesBuild style lists (STY files) that can be used when making sections. You define which style file to use in your application definition.YesYesYesDictionariesCreate and maintain the cross-reference table bocumaker programs and the physical fonts.YesYesYesNoDictionariesCreate and maintain common field information for untime data files.YesYesNoYes </th <th>Option</th> <th>Used to</th> <th>Entry</th> <th>Processing</th> <th>Required?</th>	Option	Used to	Entry	Processing	Required?
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Entry Create lookup tables for use with rules Yes Yes No processor and in entry. Tools	Common Fields	(FLDB) to make setting up and creating fields	Yes	Yes	No
Tools	Lookups				
	Entry		Yes	Yes	No
Conversion Convert files. No No No	Tools				
	Conversion	Convert files.	No	No	No

Used during form

Option	Used to	Entry	Processing	Required?
Reports	Create reports	No	No	No
Test Scenarios	Define and process test situations that simulate your production environment.	No	No	No
Printstream Analyzer	Analyze print files.	No	No	No

Used during form

STARTING STUDIO

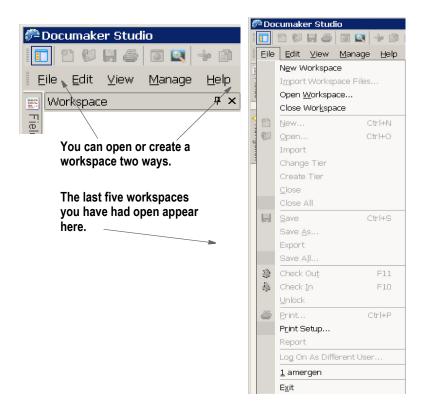
Ele Edit View Manage Help
Image: Workspace Image: Space Image: Space Image: Space
Narragation
Narrigation
9
Output 4 ×
[03:44:31PM] Workspace was closed at 03:44:31 PM
Output
MWN CAP NUM SCRL /

When you first start Studio, the following window appears.

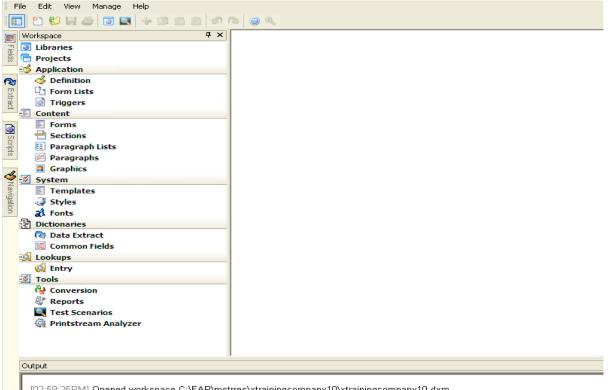
The first step is to open an workspace or create a new workspace.

- For detailed instructions on creating a workspace, see *Using a DBMS to Manage Resources* on page 45.
- For more information on joining a workspace, see *Joining a Workspace* on page 62.
- **Note** During installation, sample resource files are stored in the FMRes master resource library. Although you will likely set up your own resource libraries, do not delete these resources because the system may continue to use some of the files, such as the font cross-reference files (FXR)

You will find the options to open or create workspaces on the File menu and on the toolbar.



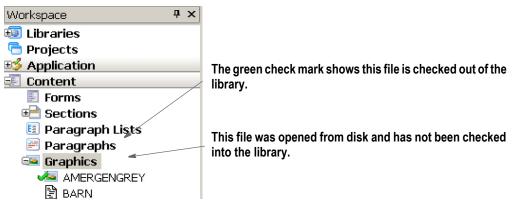
The screen below is a view in Documaker Studio once a workspace has been built and first opened. Note the workspace has a.DXM file extension. These are the options you can use to work in that workspace:



Having the tools displayed in a *tree* arrangement provides an easy way to see the files you checked out from the library. It also serves as a most recently opened file list for all files, including those not in the library.

You can remove a file from this list by highlighting the file then right-clicking to display the context menu. Use the...

- Check In option to check the file into the library
- Drop option to remove it from the list.



If you right-click in this area, the following menu appears:

New
<u>O</u> pen
<u>S</u> ave
Save <u>A</u> s
Check <u>I</u> n
Check Ou <u>t</u>
<u>U</u> nlock
Drop
D <u>e</u> lete
Preview
<u>P</u> roperties
Scan For Locked Eiles
E <u>x</u> pand All
Co <u>l</u> lapse All

For more information on checking files in and out of the library in Documaker Studio, see *Managing Resources* on page 559.

Start-Up Tips

Here are some additional tips to help you get your system up and running:

Using long file names

In Windows, file names, including the path, can be up to 256 characters long. You should, however, limit the names of resource files, such as FAP (sections) and LOG (graphics) files, to 100 characters or less, excluding the path.

Documaker software imposes no limits on the length of the names use for the output files, such as print streams, so you can name those files however you like.

Naming conventions for printers in Windows

Windows does not use the LPT naming convention, such as LPT1, LPT2, and so on, for printers. Instead, it uses the \\server name\printer convention. For Documaker, you may need to modify the FSISYS.INI and FSIUSER.INI files. You must log on as the administrator and establish your printer connections to set up the naming conventions for your printers.

USING SYSTEM MENUS

This topic discusses the pull down menus available when you are working in Documaker Studio. The following topics discuss the options on these menus. When you first start Studio, you see these menus:

Select	То
File	Create, open, close, save, check in, check out, unlock, create tiers, change tiers, print files and reports, and log on as a different user. You can also use this menu to exit the system.
Edit	Perform normal editing functions such as undo, redo, cut, copy, paste, and delete.
View	Set to turn on or off the display of the toolbar, workspace bar, output bar, status bar, field bar, extract bar, navigation bar, and scripts bar. You can also use this menu to define how documents appear on your screen.
Manage	Work with various aspects of the project, including settings, libraries, dictionaries, scripts, fields, form sets, and other resources such as fonts, graphics, help, tables, and users. You can also use this menu to convert files, print reports, test forms, and work with user profiles.
Help	Display Help contents, view the Help index, or search Help topics. You can also use this menu to check for system updates, go to the support web site, and view product information.

These menus can change, depending on which tool you are working with. For instance, if you are working with sections, you have these additional menus to choose from:

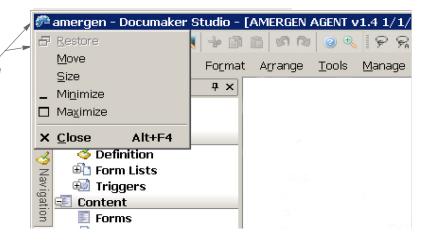
Insert	Insert the various objects that comprise a section, such as boxes, text labels, text areas, charts, lines, graphics, fields, shade, and so on.
Format	Convert objects into text labels or areas, or specify the formatting for paragraphs, including setting tabs, defining columns, numbering, specifying shading and borders, and so on.
Arrange	Align, space, resize, and position objects.
Tools	Run a spell or grammar checker, generate readability statistics, print a section report, run a data entry check or a section report, and compile or normalize the section.
Window	Use to control the display of your windows. You can elect to have the windows display in tile, stack, or cascade format. You can also open a new window or arrange icons.

Select To

In addition, some of the options on the standard menus change. For instance, if you are working with sections you will find additional Edit menu options which let you bold or italicize text. The chapters that discuss working with sections or form, for example, document the addition menus and options that become available.

Using the Control menu

In addition in the top, left corner of most windows you can click the Control menu icon:



This menu provides these options:

Option	Description
Restore	Restores the window to a smaller view
Move	In the smaller view, the Forms icon appears in the upper left hand corner by the form name. The Move option lets you move the Forms window around.
Size	Lets you resize the window.
Minimize	Minimizes the window.
Maximize	Maximizes the window.
Close	Closes the window.

Click here to display the Control menu

FILE MENU

The File menu controls creating, opening, closing, saving, checking in or out, and printing your files. You also exit the system and return to your operating system from the File menu. When you select File, this menu appears:

File	Edit	View	Insert	Arrange	Too
	New Workspace				
	Join Workspace				
	Import	Works	oace File	s	
	Open \	Norkspa	асе		
	Close \	Norkspa	ace		
2	New			Ctrl+	N
6	Open			Ctrl+	0
	Import				
	Change	e Tier			
	Create	Tier			
	Close				
	Close /	All			
H	Save			Ctrl+	S
	Save A	.s			
	Export				
	Save A				
.7.8-	Check			F1	
\$	Check	In		F1	10
	Unlock				
9	Print			Ctrl+	-P
	Print S				
	Report				
	Log Or	n As Diff	erent Us	er	
	1 dms:	1.dxm			
	2 C:\F	AP\…\s	ampco fo	r pps.dxm	
	Exit				

A brief summary of each option appears below.

Select	То
New Workspace	Create a new workspace (DXM file).
Import Workspace Files	Import a workspace file.
Open Workspace	Open a workspace.
Close Workspace	Close the current workspace. The system prompts you to save your work.
New	Create a new object, such as a section.
Open	Open as object, such as a section.

Select	То
Import	Import an object.
Close	Close the open object window. The system prompts you to save the object if changes have been made.
Close All	Close all object windows. The system prompts you to save each object if changes have been made.
Save	Save the object you are working with. A filename cannot contain any of these characters: \ / : * ? " < >
Save As	Save the object under a new name. This option lets you make a copy, without changing the original.
Export	Export an object
Save All	Save all open windows.
Check Out	Retrieve an object from a library and lock it, so no other user can check it out while you work with it.
Check In	Return an object to a library and unlock it. Other users can then check out the object.
Unlock	Remove the lock placed on a document when you retrieved it with Check Out, but did not use the Check In option to return it to the library.
Print	Print the current section or page.
Print Setup	Select the printer you will print to and set up printer-specific options.
Report	Generate reports.
Log On as a Different User	Log onto the system under another user ID.
(recently opened files)	Choose from a list of the last five files you had open. This lets you quickly reopen a workspace, for instance.
Exit	Close and exit Studio.

Note The Change Tiers and Create Tiers options are unavailable unless you have the Project Workspace option checked (View, Options, Workspace Information).

EDIT MENU

The Edit menu lets you make changes to objects. You can undo, copy, cut, delete, and paste individual objects or select all the objects for editing. When you select Edit, this menu appears:

<u>E</u> dit	⊻iew	<u>G</u> raphic
S	<u>U</u> ndo	Ctrl+Z
2	<u>R</u> edo	Ctrl+Y
-100	Cu <u>t</u>	Ctrl+X
B	<u>С</u> ору	Ctrl+C
	<u>P</u> aste	Ctrl+V
	<u>D</u> elete	Ctrl+D

The options on the Edit menu can vary, depending on which tool you are using. This example shows you the standard Edit menu options. Here is a brief summary of these options:

Select	То
Undo	Cancel or reverse your last action or choice.
Redo	Repeat the most recent change.
Cut	Remove a selection and place it on the clipboard. Use Paste to insert the selection into, for instance, another part of the section or into a different section.
Сору	Make a copy of the selection and place it in the clipboard. Use Paste to insert the selection into, for instance, another part of the section or into a different section.
Paste	Insert the contents of the clipboard at the cursor location.
Delete	Erase the selection. The selection is not stored on the clipboard so you must immediately select Undo if you change your mind.

Note Depending on the tool you are using, other options can appear on the menu. The ones shown here are the main Edit options and are always available.

VIEW MENU

The View menu controls lets you quickly turn on or off the display of the toolbar, workspace, output, or the status bar. When you select View, this menu appears:

The check marks indicate bars which have already been selected.

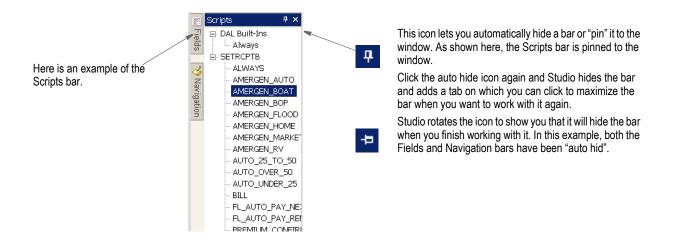
⊻iev	N	<u>M</u> anage	Help
5	0	ptions	
~	Т	oolbar	
	M	/orkspace	Bar
~	O <u>u</u> tput Bar		
~	<u>S</u> tatus Bar		
2	E	ield Bar	
Ωr,	Ē	xtract Bar	
4	N	avigation	
	S <u>c</u> ripts Bar		

A brief summary of each option appears below:

Select	Тс)

001001	
Options	Specify grid and ruler settings.
Toolbar	View the toolbar.
Workspace Bar	View the workspace tree.
Output Bar	View the Output bar. Here Studio displays information on the tasks it is performing. This could include error, warning, or confirmation messages.
Status Bar	View the Status bar. Here Studio provides information about the status of the system
Field Bar	View the Field bar. You can use this bar to quickly locate a field in the Common Fields dictionary.
Extract Bar	View the Extract bar. You can use this bar to quickly locate a field in the Data Extract dictionary.
Navigation	View the Navigation bar. The Navigation bar shows you all open objects and provides an quick way to go from one object to another.
Scripts Bar	View the Scripts bar. The Scripts bar shows you all sections which have scripts and provides a quick way to view or edit a script in a section.

Note Depending on the tool you are using, other options can appear on the menu. The ones shown here are the main View options and are always available.



MANAGE MENU

The Manage menu lets you work with the various items which make up a project, such as libraries and scripts. When you select Manage, this menu appears:

Man	lage	
	Workspace	
6	Projects	
1	Application	•
	Content	•
	System	•
3	Libraries	
	Dictionaries	•
	Lookups	•
	▼ 1-	

A brief summary of each option appears below.

Select	То
Workspace	Manage your workspace.
Projects	Define Projects. Group library resources together and define user roles and tasks within the project. Track resources progress through workflows.
Application	
Definition	Define a key combination comprised of a Key1 and Key2. Also defines recipients, categories, and transactions.
Form Lists	Define the list of forms available to an application definition.
Triggers	Create scripts that automate tasks within the processing environment. These scripts are created using Document Automation Language (DAL).
Content	
Forms	Create a list of the sections that comprise the form and to store triggering information.
Sections	Create and manage the sections that make up the forms.
Paragraph Lists	Build a list of paragraphs (PSL files) that are used for paragraph selection at run-time.
Paragraphs	Create and manage selectable paragraphs (PAR files) that can be assembled for a field at run-time.
Graphics	Resize, reverse, rotate, and manipulate bitmap graphics used on sections.
System	
Templates	Build form templates (TPL files) that can be used when creating forms.
Styles	Build style lists (STY files) that can be used when making sections. You define which style file to use in your application definition.
Fonts	Create and maintain the cross-reference table that serves as the bridge between the Documaker programs and the physical fonts.
Dictionaries	
Data Extract	Create and maintain mapping information for runtime data files.

Select...

Select	То
Common Fields	Create and maintain common field information (FDB) to make setting up and creating fields on sections (FAP) faster and more consistent.
Lookups	
Batch	Lets you manage the entries in this table file.
Entry	Lets you manage the entries in this table file.
Help	Lets you create help messages for fields which can help data entry personnel.
Definition File	Lets you maintain the DFD (Data Format Definition) files that contain information which defines the structure of the data contained within a database files
Tools	
Conversion	Convert files.
Reports	Create reports
Test Scenarios	Define and process test situations that simulate your production environment.
Deploy	Put an MRL into production.
Printstream Analyzer	Analyze print files.

Note Depending on the tool you are using, other options can appear on the menu. The ones shown here are the main Manage options and are always available.

HELP MENU

The Help menu controls access to Help screens. When you select Help, this menu appears:

Help	2		
0	<u>C</u> ontents	Ctrl+Alt+F1	
	Index	Ctrl+Alt+F2	
<u>e</u>	<u>S</u> earch	Ctrl+Alt+F3	
4	Check for <u>U</u> pdates		
$\mathfrak{T}_{\mathcal{D}}$	Technical Support		
1	About Documaker Studio		

A brief summary of each option appears below.

Select	То
Contents	See a general table of contents to the Help system.
Index	View an index of Help topics.
Search	Search the Help system for a word or phrase.
Check for Updates	Contact Oracle's support site to check for updates.
Technical Support	Go to Oracle's support site.
About Documaker Studio	Review product information such as the version and patch number. You may need to refer to this information if you contact Support.

USING A DBMS TO MANAGE RESOURCES

Documaker defaults to a database management system, or DBMS, for new workspaces. A DBMS consists of software that organizes the storage of data, and controls the creation, maintenance, and use of the database storage structures of organizations and of their users.

For Documaker, using a DBMS default structure for workspaces affects the storage and management of library resource (MRL files, user information, and entry tables) files. Using DBMS architecture provides enhanced security and the ability to deal with large amounts of business transactions and data. The benefits of the DBMS configuration for Documaker workspaces include:

- Enhanced scalability and fail-over capabilities
- Improved sorting and query functionality for master resource libraries (MRLs)
- Increased security

Using a DBMS structure for workspaces means that the following must be determined prior to beginning workspace creation in Documaker Studio:

- 1. Identify target database, which must be ODBC or JDBC compliant.
- 2. Ensure appropriate size is allocated for workspace.
- 3. Create the database and identify table/schema owner.
 - Define owner permissions to create, update, and delete.
 - Verify the user name applied to the DB Connection (ODBC, JDBC or native driver) Data Source established on the client machine.
 - Determine if the MRL will be used for Document Factory processing. If so, the Document Factory installation will provide DDL that the database administrator (DBA) can use to create the MRL tables.

This table lists the recommended table naming conventions:

Table Type	Convention
Library Name	Schema.MRL
Description	(Optional) Enter the description for the library
Library Index Table	Schema.MRL
MRL Library data table	Schema.MRL_LBYD
MRL Library catalog table	Schema.MRL_LBYC
MRL Library Log table	Schema.MRL_LBYL
User table	Schema.MRL_DMUSER
Common Fields Table	Schema.MRL_FLDB

4. Create ODBC, JDBC or native database connection on machines where Documaker Studio will be executed.

Note If using Oracle database and ODBC connection, the Oracle Instant Client version 11.2.0.3 must be used as the Client for the Data Source Name. Refer to the Instant Client ODBC readme for installation details.

For JDBC Connection,

- 1. Identify the target database that is in compliance with JDBC.
- 2. Ensure appropriate size is allocated for workspace.
- 3. Create the database and identify table/schema owner.
 - Define owner permissions to create, update, and delete.
 - Verify the user name applied to the DB Connection (JDBC or native driver) Data Source established on the client machine.
 - Determine if the MRL will be used for Document Factory processing. If so, the Document Factory installation will provide DDL that the database administrator (DBA) can use to create the MRL tables.

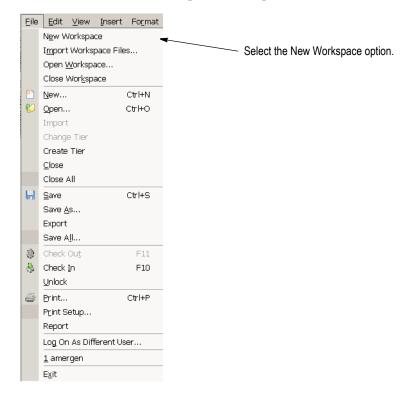
This table lists the recommended table naming conventions:

Table type	Convention
Library Name	Schema.MRL
Description	(Optional) Enter the description for the library
Library Index Table	Schema.MRL
MRL Library data table	Schema.MRL_LBYD
MRL Library catalog table	Schema.MRL_LBYC
MRL Library Log table	Schema.MRL_LBYL
User Info table	Schema.MRL_DMUSER
Common Fields Table	Schema.MRL_FLDB

CREATING A NEW WORKSPACE

Follow these steps to create a new workspace in Documaker Studio:

1. Choose the File, New Workspace menu option:



2. Choose the Create New Workspace option. Enter the name and location where you want the workspace to be created. If the path you specify does not exist, it will be created. For others to join the workspace, it will have to be located on a network or in a shared directory that allows access by the other users.

Please enter	a name and location for this new	workspace
		Allow Other Users to Join
Name:	TrainingCompany	Allow Uther Users to Join
Location:	C:\FAP\mstrres\	
Workspace Path:	C:\FAP\mstrres\TrainingCompar	у.
	ing Workspace	
Enter the pat	h to the workspace you wish to jo	vin.

Note It is very important to remember that when creating workspace names, these ultimately translate to database table names and indexes in the DBMS database. You must be sure to make the *first eight characters* of the workspace name unique within any workspaces that share the same database.

Also keep in mind that the name you enter for the workspace cannot begin with a space or any of these characters: $\/: *? "< |$

- 3. On the Import Resources page, you indicate whether you want to import resources from another master resource library (workspace) into your new workspace, and where your font cross-reference (FXR) file is located. You can use the default FXR installed during your Documaker installation.
 - If you choose to create a new workspace without importing resources, click the Create a New Workspace Without Import option and then click Next.
- **Note** Keep in mind that you can later manually import resource files from another workspace or MRL.
 - If you choose to import resources, click the Import Resources from an Existing Location option and then indicate the directory that contains those resources and also the INI file (usually named FSIUSER.INI) that identifies the components of the resources you want to import.
 - To enable the workspace to use Library Project Management, check the Enable Project Management option.

Choose the Type of	Workspace Creation -		
Create a new	workspace without imp	port	
C Import resource	es from an existing loc	ation	
Enable Project Ma	nagement		
	nstries\fimres\deflib\re	sl121.fxr	1
			_

4. Use this window to specify library information:

Connection Type: ODBC

Library Properties	
 i) 	
Library Type	Enterprise Edition
Effective Date	1/1/1980
 Database Information 	
Connection Type	ODBC
Browse ODBC	Browse ODBC
Database Name	
Database Schema	
Enable Tracing	
User ID:	
Password:	
Verify Password:	
 Library Details 	
Library Name	TESTABC
Description:	
Index Table	TESTABC
Data Table	TESTABC_LBYD
Catalog Table	TESTABC_LBYC
Library Log Table	TESTABC_LBYL

Connection Type: JDBC

ibrary Properties	
0	
General	
Library Type	Enterprise Edition
Effective Date	1/1/1980
Database Information	17 17 1300
Connection Type	JDBC
Database Type	Oracle
Database Name	
Database Schema	
JDBC Host	
JDBC Port Number	
JDBC Driver Class	oracle.jdbc.OracleDriver
JDBC URL	jdbc:oracle.thin:@ <host>:<port number="">:<dat< td=""></dat<></port></host>
Enable JNDI	
Enable Tracing	
User ID:	
Password:	
Verify Password:	
Install the JDBC driver	Install the JDBC driver
Library Details	
Library Name	TEST_DEV
Description:	
Index Table	TEST_DEV
Data Table	TEST_DEV_LBYD
Catalog Table	TEST_DEV_LBYC
Library Log Table	TEST_DEV_LBYL
User Table	TEST_DEV_USER
Common Fields Table	TEST_DEV_FLDB
Generate DDLs	Generate DDLs

The following table describes the	library information:
-----------------------------------	----------------------

Option	Description
Library type	Use the Library Type field to specify the library structure type for the resources. Using this field, you can select either Standard Edition or Enterprise Edition. Selecting Standard Edition creates an ODSE (Oracle Documaker Standard Edition) structured library whereas selecting Enterprise Edition creates an ODEE (Oracle Documaker Enterprise Edition) structured library. Based on your selection, Studio will create the appropriate table structures and other settings that differ between these two configurations. This will include creation or modification of the appropriate DFD files and ensuring that the DDL created or executed generates the proper structures. Studio sets the default library type to Enterprise Edition for functions that create libraries such as creating a new workspace. Keep this option if you are using Enterprise Edition or plan to promote this library to an Enterprise Edition implementation.
Effective Date	Use the Effective Date field to specify the default date for resources that can be imported or created for this new workspace. Remember that transactions are assumed to have a date-of-record — sometimes referred to as the run date, effective date, or policy date. Library management uses this transaction date to locate the proper resource version/revision that was effective on that date. Note: When creating a new workspace, it is important to set the date on this page back far enough to cover the transaction date range that you expect to process.
Database Information	
Connection Type	The technology used for connecting to the database. Choices are JDBC (Java Database Connectivity) and ODBC (Open Database Connectivity). Note: The Default connection type is JDBC.
Browse ODBC	Use the Browse ODBC button to select a Data Source name. You are then prompted to enter Oracle ODBC Driver Connect information. Note: Browse ODBC option is available only if the Connection Type selected is ODBC.
Database Type	 Select the database type from the dropdown list to open the JDBC connections dialog. You can select from the following available options: DB2 for Linux, Unix and Windows Microsoft SQL Server Oracle Other
Database Name	The name of the database that is being connected to. Note: The Database name field does not display when the Database Type is selected as Other .
Database Schema	The name of the Database schema.
JDBC Host	The name or the TCP/IP address of the server machine where the database server is running.
JDBC Port Number	The port number on the server machine that the database server is listening to for connections.

Option	Description
JDBC Driver Class	The Java class name of the JDBC driver being used (for example, oracle.jdbc.OracleDriver). The wizard will provide defaults for supported databases types.
JDBC URL	The connection string used by the user's JDBC driver. When the database type is one that is known, the wizard will supply a default URL based on the information provided by the user.
Enable JNDI	When this box is checked, the configuration information is stored in a JNDI.bindings file instead of in the INI file. This is not enabled by default. If checked, specify the JNDI Name and JNDI Context (location of binding file).
JNDI Name	The connection name for storing the connection information in the JNDI.bindings file.
JNDI Context	The folder where the JNDI.bindings file is located.Clicking on the button in this field opens a dialog that can be used to browse for the folder.
Enable Tracing	Check the box to enable tracing. Tracing can help in monitoring and analyzing the Documaker application as it is running against the database.
User ID	The Data Source user ID.
Password	The Data Source password. The password is updated when you enter the password on the ODBC Driver Connect dialog Password field. The password will display as asterisks (***).
Verify Password	The Data Source password again, to verify correct typing in Password entry. The verify password is updated when you enter the password on the ODBC Driver Connect dialog Password field. The verify password will display as asterisks (***).
Install the JDBC Driver	Click this option to install the JDBC driver.
Library Name	Defaults to the workspace name when creating a new workspace.
Description	(Optional) Enter a description of the workspace library.
Library Table Names	(Note: If your workspace name begins with a number, the create workspace process will automatically insert an L in front of the Library table names.)
Generate DDLs	Generate DDLs opens a separate window with the SQL commands used to create the tables. If your Database Administrator has restricted the creation of tables, highlight the text and press Ctrl+C to copy it to your clipboard. You can then paste the information into an email or a text file to give to your DBA. Note: You will not be able to proceed past this page if the tables are not created.
Index Table	For Standard Edition library types, defaults as your workspace name, plus the suffix qualifier of _DEV.
Data Table	For Standard Edition library types, defaults as your workspace name, plus the suffix qualifier of _DEV_LBYD.
Catalog Table	For Standard Edition library types, defaults as your workspace name, plus the suffix qualifier of _DEV_LBYC.
Library Log Table	For Standard Edition library types, defaults as your workspace name, plus the suffix qualifier of _DEV_LBYL.

Option	Description
User Table	For Standard Edition library types, defaults as your workspace name, plus the suffix qualifier of _DEV_DMUSER.
	For Enterprise Edition library types, defaults as your workspace name, plus the suffix qualifier of <i>_DMUSER</i>
Common Fields Table	For Standard Edition library types, defaults as your workspace name, plus the suffix qualifier of _DEV_FLDB.

The processing step of the creation wizard includes a Finish button to complete workspace creation. This window shows the system creating new directories and saving workspace files. If you have imported any files into the workspace these are listed as well. Look in your workspace Output pane for any messages generated during the creation process.

/orkspa	
ress "Fi	nish" to create new workspace
	Tasks
9	Create new directories
×	Save workspace files

Upon completion of the process your new workspace will open. If you created a workspace with no import, verify that the following files are in your library:

- your workspace.BDF
- Symbol.XDD
- SETRCPTB.DAL

Once created, you are designated as the administrator of the user database (USERINFO). As administrator, you can set security rights for other users who join the workspace. You do not, however, have to predefine additional users. New users who join a workspace are automatically inserted into the user database and inherit the attributes of USER1. Therefore, as administrator, you should change the USER1 ID to have the level and security rights you want all new users to have.

Canceling Workspace Creation

To cancel the workspace creation process, click the Cancel button located in the lower right corner of any of the workspace dialogs (Workspace, Import Resources, Specify Library Information, Processing, etc.).

Workspace cancellation may not remove the workspace directory, subdirectories or files which are created as part of the workspace creation process. You may have to manually delete these directories and files.

Import an Existing MRL into a New DBMS Workspace

You may have an existing Documaker Studio workspace that uses an xBase (non-DBMS) library structure *or* another DBMS MRL that you want to import into a new workspace. These can be used in the DBMS format by creating a new workspace in Documaker Studio.

First, configure a DBMS that can be used by the new workspace. Please see *Creating a New Workspace* on page 47 for information on building the database tables for Documaker.

Next, create a new workspace in Documaker Studio. Follow these steps to create a new workspace in Documaker Studio:

- 1. Choose the File, New Workspace menu option:
- 2. Choose the Create New Workspace option. Enter the name and location where you want the workspace to be created. If the path you specify does not exist, the subdirectories you specify will be created. For others to join the workspace, it will have to be located on a network or in a shared directory that allows access by the other users.

Workspace					
Create N	ew Workspac	e			
Please enter	a name and k	ocation for this new (vorkspace.		
Name:	TrainingCom	pany		ow Other Users to	Join
Location:	C:\FAP\mstr	res\			
Workspace Path:	C:\FAP\mstr	res\TrainingCompan	y		
C Join Exist	ting Workspac	e			
Enter the pal	th to the work:	space you wish to joi	n.		
Location:					
					_
		_		Cancel	

Note It is very important to remember that when creating workspace names, these ultimately translate to database table names and indexes in the DBMS database. You must be sure to make the *first eight characters* of the workspace name unique within any workspaces that share the same database.

Also keep in mind that the name you enter for the workspace cannot begin with a space or any of these characters: $\/:$ *? "< |

3. On the Import Resources page, you indicate whether you want to import resources from another master resource library (MRL) into your new workspace. Select Import Resources from an existing location. Specify the location of your existing MRL resources and your path information file (usually the FSIUSER.INI) here:

mport Res	ources	×
Chune the	Type of Workspace Creation	
C Creat	te a new workspace without import	
Impo	rt resources from an existing location	
🔽 Enable P	roject Management	
Directory:	C:\FAP\DLL\ACME\	
INI file:	C:\FAP\DLL\ACME\fsiuser.ini	
	< Back Next > Cancel	Help

4. The Select Resource page presents you with the list of configurations defined in the INI files. Choose the configuration you want to use.

ct Resourc				
Workspace:	C:\FAP\DLL\TrainingCi	ompany/TrainingC	Company.dxm	
:ME				
	< Back	Next >	Cancel	Help

5. On the Important Files page you can review several INI options and files that are key to setting up a workspace. You can change any of the file names and locations by selecting the option and clicking the Change button.

FriFile: C:\FAP\DLL\ACME\DEFLIB\rei formFile: MASTER.LBY Jserinfo File:	
Frifile: C:\FAP\DLL\ACME\DEFLIB\rei FomFile: MASTER.LBY Joentrio File:	
XrtFile: C:\FAP\DLL\ACME\DEFLIB\rei FormFile: MASTER.LBY UserInfo File:	121.FXB
	121.FXB
UserInfo File:	
FUB File:	

6. The next page is where you specify the library information:

Li	ibrary Properties	
Ģ) 🔞	
>	General	
	Library Type	Enterprise Edition
	Effective Date	1/1/1980
,	Database Information	
	Connection Type	ODBC
	Browse ODBC	Browse ODBC
	Database Name	
	Database Schema	
	Enable Tracing	
	User ID:	
	Password:	
	Verify Password:	
,	Library Details	
	Library Name	TESTABC
	Description:	
	Index Table	TESTABC
	Data Table	TESTABC_LBYD
	Catalog Table	TESTABC_LBYC
	Library Log Table	TESTABC_LBYL
	User Table	TESTABC_DMUSER
	Common Fields Table	TESTABC FLDB

The following table describes library information:

Description
Use the Library Type field to specify the library structure type for the resources. Using this field, you can select either Standard Edition or Enterprise Edition.
Selecting Standard Edition creates an ODSE (Oracle Documaker Standard Edition) structured library whereas selecting Enterprise Edition creates an ODEE (Oracle Documaker Enterprise Edition) structured library.
Based on your selection, Studio will create the appropriate table structures and other settings that differ between these two configurations. This will include creation or modification of the appropriate DFD files and ensuring that the DDL created or executed generates the proper structures.
Studio sets the default library type to Enterprise Edition for functions that create libraries such as creating a new workspace. Keep this option if you are using Enterprise Edition or plan to promote this library to an Enterprise Edition implementation.
ODEE based libraries are always intended to be used with ODEE setups where the library resources are deployed to a compatible database. They can be used by Documaker Enterprise Edition processing, for both Factory use and access by IDS for Documaker Interactive.
Use the Effective Date field to specify the default date for resources that can be imported or created for this new workspace. Remember that transactions are assumed to have a date-of-record — sometimes referred to as the run date, effective date, or policy date. Library management uses this transaction date to locate the proper resource version/revision that was effective on that date. Note: When creating a new workspace, it is important to set the date on this page back far enough to cover the transaction date range that you expect to process

Library Name

Option	Description
Connection Type	The technology used for connecting to the database. Choices are JDBC (Java Database Connectivity) and ODBC (Open Database Connectivity). Note: The Default connection type is JDBC.
Browse ODBC	Use the Browse ODBC button to select a Data Source name. You are then prompted to enter Oracle ODBC Driver Connect information. Note: Browse ODBC option is available only if the Connection Type selected is ODBC.
Database Type	 Select the database type from the drop-down list to open the JDBC connections dialog. You can select from the following available options: DB2 for Linux, Unix and Windows Microsoft SQL Server Oracle Other
Database Name	The name of the database that is being connected to. Note: The Database name field does not display when the Database Type is selected as Other.
Database Schema	The name of the database schema.
JDBC Host	The name or the TCP/IP address of the server machine where the database server is running.
JDBC Port Number	The port number on the server machine that the database server is listening to for connections.
JDBC Driver Class	The Java class name of the JDBC driver being used (for example, oracle.jdbc.OracleDriver). The wizard will provide defaults for supported databases types.
JDBC URL	The connection string used by the user's JDBC driver. When the database type is one that is known, the wizard will supply a default URL based on the information provided by the user.
Enable JNDI	When this box is checked, the configuration information is stored in a JNDI.bindings file instead of in the INI file. This is not enabled by default. If checked, specify the JNDI Name and JNDI Context (location of binding file).
JNDI Name	The connection name for storing the connection information in the JNDI.bindings file.
JNDI Context	The folder where the JNDI.bindings file is located.Clicking on the button in this field opens a dialog that can be used to browse for the folder.
Enable Tracing	Check the box to enable tracing. Tracing can help in monitoring and analyzing the Documaker application as it is running against the database.
User ID	The Data Source user ID.
Password	The Data Source password. The password is updated when you enter the password on the ODBC Driver Connect dialog Password field. The password will display as asterisks (***).
Verify Password	The Data Source password again, to verify correct typing in Password entry. The verify password is updated when you enter the password on the ODBC Driver Connect dialog Password field. The verify password will display as asterisks (***).

Option	Description
Library Name	Defaults to the workspace name when creating a new workspace.
Description	(Optional) Enter a description of the workspace library.
Library Table Names	(Note: If your workspace name begins with a number, the create workspace process will automatically insert an L in front of the library table names.)
Generate DDLs	Selecting this option opens a window with the SQL commands used to create the tables. If your Database Administrator has restricted the creation of tables, highlight the text and press Ctrl+C to copy it to your clipboard. You can then paste the information into an email or a text file to give to your database administrator (DBA). Note: You will not be able to proceed past this page if the tables are not created.
Index Table	The name of the Index portion of the library. For Standard Edition library types, defaults as your workspace name, plus the suffix qualifier of _DEV.
Data Table	The table name of the Data portion of the library. For Standard Edition library types, defaults as your workspace name, plus the suffix qualifier of _DEV_LBYD.
Catalog Table	For Standard Edition library types, defaults as your workspace name, plus the suffix qualifier of _ <i>DEV_LBYC</i> .
Library Log Table	For Standard Edition library types, defaults as your workspace name, plus the suffix qualifier of _DEV_LBYL.
User Table	Defaults as your workspace name, plus the suffix qualifier of _DEV_USER.
Common Fields Table	For Standard Edition library types, defaults as your workspace name, plus the suffix qualifier of _DEV_FLDB.
Password	The Data Source password. The password is updated when you enter the password on the ODBC Driver Connect dialog Password field. The password will display as asterisks (***).

7. The processing step of the creation wizard includes a Finish button to complete workspace creation. This window shows the creation of new directories and the saving of files. Entry tables (*.DBF\MDX) are automatically converted to *.TLK files and imported into the library. Your imported files are listed in the Processing pane. Look in your Output window for messages generated during the import process.

Your new workspace will open upon completion of the import process. Open your library to verify that your resources have been imported into the new workspace.

Note Workspaces created in 12.4 and higher uses a new encryption method for user credentials. If the workspace needs to be used in prior versions (12.3, etc), the user need to explicitly remove the encrypted password set in INI files, and replace the same with the password in plain text.

Important Commented records in user's existing INI files such as *fsisys.ini* or *fsiuser.ini* are not copied to the *fsisys.ini* or *fsiuser.ini* files of the newly created Workspace.

For example, you might have the following statements in your fsisys.ini file:

```
; AFG2WIP - Contains the user id for the afg2wip program.
; Archival - Contains general archive information for the
archive program.
; BATCH1 - Lists the printers used for BATCH 1.
; BATCH2 - Lists the printers used for BATCH 2.
; BATCH3 - Lists the printers used for BATCH 3.
; BATCH4 - Lists the printers used for BATCH 4.
; BATCH5 - Lists the printers used for BATCH 5.
; BATCH_QUEUE - Contains the path and file name for the wip
batch queue.
; Control - Contains Form entry general setup information
; ExtractKeyField - Describes the key field in the extract
records.
; RUNMODE - Various run mode options.
```

The fsisys.ini file in the newly created Workspace will not include any of these comments.

Users would need to edit the applicable workspace INI file using a text editor and insert any commented records from the original INI files as needed/desired.

Joining a Workspace

To join an existing DBMS workspace:

- 1. Create ODBC or JDBC database driver on client machines (where Studio will be executed). It is best to use the same ODBC or JDBC name as the initial setup of the workspace to ensure consistency and reduce INI file confusion.
- **Note** If using Oracle database and ODBC connection, the Oracle Instant Client version 11.2.0.3 must be used as the Client for the Data Source Name.Refer to the Instant Client ODBC readme for installation details.
 - 2. Open the New Workspace menu item. The Workspace wizard opens.
 - 3. Select Join an existing workspace. Specify the path to the.DXM file of the workspace you want to join.

Workspace		X
C Create New Workspa	je	
Please enter a name and	location for this new workspace.	
Name:	📕 Allow Other Users to Join	
Location: C:\FAP\DL	EV.	
Workspace C:\FAP\DL Path:	Λ.	
Join Existing Workspa	ce	
Enter the path to the wor	space you wish to join.	
Location: C:\FAP\ms	trres\xtrainingcompany9\xtrainingcompany9.dxm	
	< Back Next > Cancel He	elp

If you click Next, and the workspace is not configured for joining, you will see the following message:

Doc	Documaker Studio				
4		<c:\fap\mstrres\xtrainingcompany9\xtrainingcompany9.dxm> is not set up for sharing. You may encounter problems using this workspace. Please contact the Administrator for this workspace to set up sharing. Do you wish to continue to join?</c:\fap\mstrres\xtrainingcompany9\xtrainingcompany9.dxm>			
		Yes No			

If you can join the workspace, you will then see the workspace open in Studio.

Note You must have full Read/Write permissions to the location of the shared workspace so that the necessary workspace files can be created. If you do not have full Read/Write permission, you may see the message "An error occurred trying to copy a file" during joining the workspace process.

Working with Existing Run Time Documaker MRLs

Documaker Desktop, Documaker Server, Docupresentment, EWPS, iPPS, and iDocumaker 3.2 processing is supported, after you configure your environment to use a DBMS.

Note that help tables and environments with entry tables or paragraph selection will not work properly since these formats are updated in the version12.x Studio architecture.

Adding FDB Database Tables to an Existing MRL Database Schema

Documaker Studio 12.1 and higher supports database format for common field (FDB) tables only. The xBase field format from previous versions is no long supported. When you open an existing workspace created in a previous version of Documaker Studio, you must use the new FDB creation wizard to add the FDB table to the workspace. If your existing workspace contains an xBase FDB table, the FDB creation wizard offers to import the xBase FDB content into the FDB database table.

To use this wizard:

1. Click Manage, Dictionaries, Common Fields. Studio asks if you want to create the FLDB table.



2. Click Yes. The Database Connection wizard opens.

Library table name	38			
ODBC Data Source	æ			
Database Schem	a.			
Database authent	ication			
User Name				
Password				

3. Enter the database connection information:

Option Description

Library table names

Option	Description			
ODBC Data Source	Click the column to the right to display the Browse button and select the same ODBC Data Source that you used when you created the workspace. Once you have selected a Data Source, you may be prompted to enter your password for the ODBC Data Source.			
Database Schema	The name of the database schema. This name is pre-filled after entering the ODBC password.			
Database authentication				
User Name	The user name is pre-filled after entering the ODBC password.			
Password	The password is pre-filled after entering the ODBC password.			

4. Click Next once you have provided the required connection information. The following window appears to allow you to review the names of the tables that will be created.

Option	Description
Options	
Create Tables	The option to create the Common Fields tables is checked by default.
Generate DDLs	Generate DDLs opens a separate window with the SQL commands used to create the tables. If your Database Administrator has restricted the creation of tables, highlight the text and press Ctrl+C to copy it to your clipboard. You can then paste the information into an email or a text file to give to your DBA. Note: You will not be able to proceed past this page if the tables are not created.
Library table names	
Common Fields Table	The default is your workspace name, plus the suffix qualifier of <i>_FLDB</i> . For Standard Edition library types, defaults as your workspace name, plus the suffix qualifier of _DEV_FLDB.

- 5. Click Finish to create the table:
 - If the workspace has no existing FLDB table then the FLDB database table is created and opens in the Common Fields Dictionary shown in step 6.
 - If the workspace currently has an existing xBase FDB file defined in the INI file, a message similar to the one below appears:

Documal	ker Studio	×
(Would you like to import the field records contained in <fdb.dbf< th=""><th>>?</th></fdb.dbf<>	>?
	Yes No	

Click Yes to import the xBase FLDB content into the FLDB database table. The FDB table Common Fields Dictionary shown in step 6 opens.

6. The new table opens in the Common Fields Dictionary. The output area lists the number of records that were imported into the FDLB table.

dms1_dev_FLD8		
lavigation Tree	Item Properties	
8 0 - 9		
EH-K		
18 L - N		
8 O - Q		
⊞ X - Z		
Other		
Spreadsheet View		
Spreadsheet View		

Chapter 2

Working with Settings, Users, and Security

Use the Settings option on the Manage, System menu to work with configuration or *INI* file, options and tool settings. The Settings window provides an easy way to set the INI options which define default values and other user-defined parameters.

Tool settings let you define how your forms appear on your screen. For instance, you can choose the display units and colors for the rulers that border forms, sections and graphics. You can also define the grid settings and specify colors for different elements in DAL scripts.

This chapter discusses...

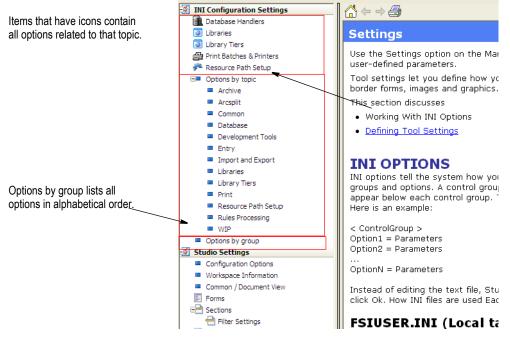
- Working With INI Options on page 67
- Defining Studio Settings on page 76
 - Working with Configuration Options on page 77
 - Defining Workspace Options on page 82
 - Working with Common/Document View Settings on page 84
 - Working with Form Options on page 86
 - on page 90
 - Working with Graphic Options on page 100
 - *Working with Trigger Options* on page 102
 - Setting HTML Style Options for Reports on page 104
 - Setting Up Printstream Analyzer on page 105
- *Managing Users* on page 107
- Storing User Information in Another Database on page 119
- Adding Security at the Resource Level on page 120
- Using the LDAP Security Model on page 122

WORKING WITH INI OPTIONS

Documaker configuration options tell the system how you want it to operate. These options are stored in INI files. An INI file is simply a text file consisting of control groups and options. A control group organizes the various options and is denoted by brackets (<>) or braces ([]). The individual INI options appear below each control group. The settings for each option appear after an equals sign (=). Here is an example:

```
< ControlGroup >
Option1 = Parameters
Option2 = Parameters
...
OptionN = Parameters
```

Instead of editing the text file, Studio lets you modify your INI settings without leaving the system. You simply choose the Manage, System, Settings option and use the Settings window to make changes. Your changes are applied as soon as you click Ok. The options are grouped as shown here on the Settings window:



How INI files are used

Each resource library uses two INI files: FSIUSER.INI and FSISYS.INI.

• FSIUSER.INI - controls settings which can vary between resource libraries, such as sorting options, archival mode, and import/export ability, as well as individual user options. To work with these options in Studio, you click the Local tab.

Local	Shared
PrtTy	pe:PCL

• FSISYS.INI - controls information related to the entire system, such as system settings and program function calls. To work with these options in Studio, you click the System tab.

Local Shared PrtType:PCL

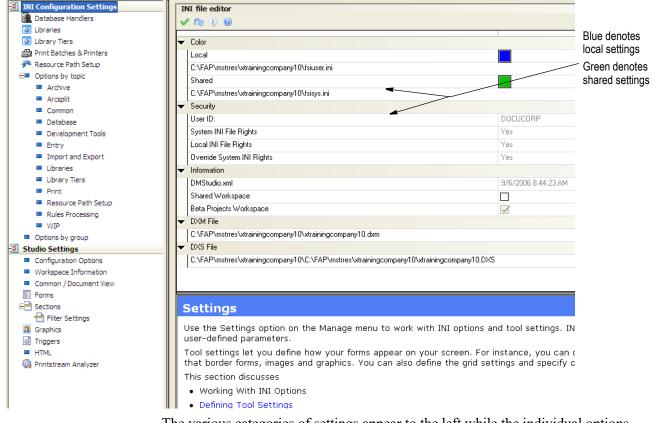
Studio loads the FSIUSER first, then finds the name and location of the FSISYS file from the ENVIRONMENT group, and loads it. Since the FSIUSER is loaded first, the options within this group usually override the FSISYS options.

In a multiple user environment, you may not want to let all users change system-level settings. In some cases, you may not want some users to change individual settings. The system lets you determine which configuration options are available to a specific user. This is done via security definitions which are assigned to these options by the system administrator.

For instance, you can allow a user to change local settings (FSIUSER), but not change the system settings (FSISYS). Or, you could let a user review these settings (local and system), but not change them. For more information, see *Managing Users* on page 107.

SETTING INI OPTIONS

When you choose the Manage, System, Settings option, the Settings window appears. To see the options below, click INI Configuration Settings:



The various categories of settings appear to the left while the individual options appear on the right.

Note You can use the File, Log On As Different User option to change to another user ID.

You can find individual INI options a number of ways:

То	Click
Go to a specific control group	Options by group, all options listed in alphabetical order.
Choose from lists of related options	Options by topic, go to the appropriate category or topic.
All options pertaining to a group	Any option with an icon. All will eventually have wizards. Currently, only the Database Handler has a wizard.

The INI Configuration Settings options are where you set the location of the FSIUSER.INI and FSISYS.INI files, as well as view the location of the workspace *.dxm file. Projects are also activated in this location.

Entries are made into the file by clicking to expand a topic, and then clicking in columns. For example, if you expand the Print topic, and the PDF Printer INI options, you see the following control groups and options:

Click the +/- symbol to show or hide the control group in this category	 → AFP Printer INI Options → BPD Printer INI Options → Common to all Batch Printer Types → Common to all GUI Printer Types 	Pr	ocal Shared rtType:PDF • X 🚖 3 🥹	
The name of the control group appears in the left column.	 EPT INI Options GDI Printer INI Options GenPrint Printer Options 		PrtType:PDF AdjustTextWidth	No
	 GUI Print Options HTML Printer INI Options MDR Printer INI Options 	1 1	BlankPageImage BookMark	Yes,Page
	MPM INI Options Metacode Printer INI Options PCL Printer INI Options		CacheFiles Class Compression	/ 16 PDF 2
	PDF Printer INI Options PrtType:PDF Printing to RTF	1 1	Device DisplayMode	UseOutlines
	PST Printer INI Options PXL Printer INI Options VIPP Printer INI Options		DownLoadFonts EmbeddedINI	Yes No

To make an entry for an INI option, click in the entry area beside the option. For some options, you simply enter text. For others, an icon appears to let you browse for a file, choose from a list of preset options, or to specify a parameter comprised of several elements.

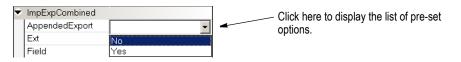
Here are some examples:

Browsing for a file

Click here to display the Browse for File window...

My Recent Documents	ARC BDFLib ■DATA	🗐 AMERGEN 阔 before WI	GREY_0000100001_1	$\vdash \setminus$
Desktop My Documents My Computer	DEFLIb DEFLIb FORMS GRPLIb DEFLIP DINPUT MWN MWN MWN WIP WIP WIP afpbat1 # amergen a mergen	i fsisys i fsiuser i fsiuser i brary	100001_19800101	
My Network	∢ File <u>n</u> ame:		• ОК	

Choosing from a list of options



Specifying a parameter comprised of several elements

Click here to display the Option List window.

 Export BatchPrint Complete Control ExpFile_CD ExportFormats 	Local Shared ExportFormats ExportFormats 0 01 101 101		
Export!A/ith\/SI	D1 N ;TD;Standard Export;TRNW	732->TRI	_
🌮 Option List		×	¢
Code		ОК	
Description	TD	Cancel	
Function	Standard Export		

CHOOSING OPTIONS BY TOPIC

Studio groups the INI options into these topics:

🖃 Op	tions by topic
	Archive
	Arcsplit
	Common
	Database
	Development Tools
	Entry
	Import and Export
	Libraries
	Library Tiers
	Print
	Resource Path Setup
	Rules Processing
	WIP

This table describes the topics:

Торіс	See
Archive	Here you can define options common to all archives, archive utilities, the GenArc program, and archiving via Documaker Desktop.
ArcSplit	Use these options to define what should happen when you split an archive (CAR) file. You can perform this task from within Documaker Desktop or using the ARCSPLIT utility. The INI options are grouped based on those two approaches
Common	This is where you define settings common to all facets of Studio. This includes interface options, miscellaneous options, and print options
Database	Some of the information you work with, such as archive information, must be stored in database tables. Studio lets you use several types of databases, such as ODBC, DB2 and Oracle. From this topic you can add and delete database handlers. You can also customize the
	properties of these handlers. When adding a database handler, Studio provides a wizard to guide you through the setup process.

Торіс	See
Development Tools	These options let you control how you work with Studio From here you can set how often Studio should automatically save your work or if it should automatically run a spell check when you close an applicable object. You can also set the default colors for the objects you place on sections, such as boxes and bar codes and set up font family matching.
Entry	Use these options to define how the data entry facilities work.
Import and Export	This is where you define how Studio will import and export information.
Libraries	Here you set up the library you want to work with. Libraries store the resources you use as you build and process information on form sets. These resources include sections, graphics, and forms. You can also set up modes, statuses, classes, and projects using these options.
Library Tiers	The Library Tiers options are part of the project management tools.
Print	Click the Print Batches & Printers options to set up the print batches and printer options you will use to publish your forms.
Resource Path Setup	This is where you tell Studio where to find the resources you will work with and it will use to build form sets. This is also where you set the Locale option. The Locale option, in the Language control group, determines the default units of measure, date format, and so on.
Rules Processing	This is where you define options that affect how rules are processed via the GenData and GenTrn programs.
WIP	This is where you define options that affect work-in-progress. This includes options for the GenWIP program and options that affect how WIP is handled via a workstation.

For instance, if you choose Resource Path Setup, expand the Configuration category and highlight the Master Resource control group, you see these INI options:

Image: Database Handlers CONFIG:XTrainingCompany10 MasterResource Ibrary Tiers CONFIG:XTrainingCompany10 MasterResource Ibrary Tiers CONFIG:XTrainingCompany10 Image: Database Print Batches & Printers Environment INFiles Common Arcsplit Environment INFiles Language MasterResource ARCPath Development Tools Entry Bordule Ibraries Libraries Database Ibraries Libraries DatFile Ibraries Libraries DotTibe Print Resource Path Setup DotTibe Print Resource Path Setup DotTibe Print Resource Path Setup DotTibe Print Options by group Dottabase		1	
Ibraines COMFIG:XTrainingCompany10 Config:XXX Config:XXX Ibraines COMFIG:XTrainingCompany10 Config:XXX Config:XXX Print Batches & Printers Config:XXX Entry Import and Export Ibraries Ubrary Tiers Print Resource Path Setup Rules Processing VTP Options by group Studio Settings Common / Document View Forms Forms Settings Settings Graphics Filte Settings Often times, as in the example below, to another IN group known as a "CON" If it re Settings Graphics Filte Settings Othen times, as in the example below, to another IN group known as a "CON"	INI Configuration Settings	 Configuration 	Local Shared
Ibbrais Config:XXX	💼 Database Handlers		
We have backed as Printers Print Batches & Printers Print Batches & Printers Print Batches & Printers Print Batches & Printers Print <	Libraries		
 Print Batches & Printers Resource Path Setup Options by topic Archive Archive Archive Arcsplit Common Database Development Tools Entry Import and Export Ubraries Ubrary Tiers Print Resource Path Setup WinP Options by group Studio Settings Common / Document View Forms Sections Prints Forms Sections Forms Sections Forms Sections Forms Sections Forms Sections Forms Sections Forms Forms Sections Forms Forms Sections Forms 	Library Tiers		
	🚔 Print Batches & Printers		- MasterBesource
■ Options by topic Language ■ Archive MasterResource ■ Archive MasterResource ■ Archive MasterResource ■ Common Detabase ■ Development Tools ■ Entry ■ Inport and Export ■ Ubraries ■ Ubraries ■ Ubraries ■ Ubraries ■ Development Tools ■ Language ■ Archive ■ Development Tools ■ Archive ■ Inport and Export ■ Ubraries ■ Ubraries ■ Ubraries ■ Ubraries ■ Dort Ib ■ Resource Path Setup ■ Dort Ib ■ Rules Processing ■ Dort Ib ■ WIP Options by group Studio Settings ■ Common / Document View ■ Forms ■ Sections ● Forms ■ Sectings ■ Forms ■ Sectings ■ Forms ■ Sectings ■ File Free Settings ■ Offen times, as in the example below, to another INI group known as a "CON" ■ File Free Settings ■ Offen times, as in the example below, to another INI group known as a "CON"	Թ Resource Path Setup		
Archive MasterResource Arcspit Resources Arcspit BDFFlie Common Database Development Tools Entry Import and Export Database Libraries Database Print Dottabase Resource Path Setup Dottabase WIP Options by group Studio Settings Configuration Options Workspace Information Common / Document View Forms Sections File Borflie Borflie The < MasterResource * Graphics Offen times, as in the example below, to another NIN group indenti up the "Master Resources".	□■ Options by topic		
Arcsplit Common Common Database Development Tools Entry Import and Export Libraries Libraries Libraries Library Tiers Print Resource Path Setup Rules Processing WIP Options by group Studio Settings Configuration Options Workspace Information Common / Document View Forms Sections Forms Filter Settings Graphics Triggers	Archive		
 ■ Control of Particle ■ Database ■ Development Tools ■ Entry ■ Import and Export ■ Libraries ■ Library Tiers ■ Print ■ Resource Path Setup ■ Rules Processing ■ VIP ■ Options by group Studio Settings ■ Configuration Options ■ Workspace Information ■ Common / Document View ■ Forms ■ Sections ■ Filter Settings ■ Graphics ■ Triggers 	 Arcsplit 	1	
 ■ Development Tools ■ Entry ■ Import and Export ■ Libraries ■ Library Tiers ■ Print ■ Resource Path Setup ■ Rules Processing ■ WIP ■ Options by group Studio Settings ■ Configuration Options ■ Workspace Information ■ Common / Document View ■ Forms ■ Forms ■ Forms ■ Forms ■ Forms ■ Forms ■ Graphics ■ Graphics ■ Triggers 	Common		BDFLib
 Entry Import and Export Libraries Library Tiers Print Resource Path Setup Rules Processing WIP Options by group Studio Settings Configuration Options Workspace Information Common / Document View Forms Sections Forms Forms Graphics Often times, as in the example below, to another INI group known as a "CON" Triggers 	Database		CARPath
 Import and Export Libraries Library Tiers Print Resource Path Setup Rules Processing WIP Options by group Studio Settings Configuration Options Workspace Information Common / Document View Forms Forms Forms Graphics Graphics Triggers 	Development Tools		CompLib
Libraries Library Tiers Library Tiers Print Resource Path Setup Rules Processing WIP Options by group Studio Settings Configuration Options Workspace Information Common / Document View Forms Common / Document View Forms Forms Graphics Graphics Graphics Tiggers	Entry		DalFile
Libraries Library Tiers Print Resource Path Setup Rules Processing WIP Options by group Studio Settings Configuration Options Workspace Information Common / Document View Forms Common / Document View Forms Forms Graphics Graphics Triggers	Import and Export		
Library Tiers Print Resource Path Setup Resource Path Setup Rules Processing WrP Options by group Studio Settings Configuration Options Workspace Information Common / Document View Forms Sections Print Settings Graphics Graphics Triggers DDTLb Deflib Deflib DictionaryFile FOULUE MasterResource Remarks The < MasterResource > group indenti up the "Master Resources". Often times, as in the example below, to another INI group known as a "CON"	Libraries		
 Print Resource Path Setup Rules Processing WIP Options by group Studio Settings Configuration Options Workspace Information Common / Document View Forms Sections Filter Settings Graphics Triggers 	Library Tiers		
 Resource Path Setup Rules Processing WIP Options by group Studio Settings Configuration Options Workspace Information Common / Document View Forms Sections Filter Settings Graphics Triggers 	Print		
 Rules Processing WIP Options by group Studio Settings Configuration Options Workspace Information Common / Document View Forms Sections Filter Settings Graphics Often times, as in the example below, to another INI group known as a "CON" Triggers 	Resource Path Setup		
Options by group Options by group Studio Settings Configuration Options Workspace Information Common / Document View Forms Common / Document View Forms Forms Graphics Graphics Triggers Triggers	Rules Processing		
Studio Settings MasterResource Configuration Options Workspace Information Common / Document View Remarks Forms The < MasterResource > group indenti Image: Sections Image: Pilter Settings Graphics Often times, as in the example below, to another INI group known as a "CON" Image: Triggers Triggers	WIP		FDITIR
Configuration Options Workspace Information Common / Document View Forms Sections Graphics Graphics Triggers Triggers	 Options by group 		
Configuration Options Workspace Information Common / Document View Forms Sections Filter Settings Graphics Graphics Triggers Common / Document View Sections The < Master Resource > group indenti up the "Master Resources". Often times, as in the example below, to another INI group known as a "CON" Triggers	Studio Settings		MastorBosourco
Common / Document View E Forms Forms Filter Sections Filter Settings Graphics Graphics Triggers Triggers Filter Settings	Configuration Options		MasterResource
Common / Document View Forms Sections Filter Settings Graphics Triggers Triggers Triggers	Workspace Information		Remarks
Sections In a classical case of the	Common / Document View		I Remarks
Image: Sections up the "Master Resources". Image: Filter Settings Often times, as in the example below, to another INI group known as a "CONI to another INI group k	Forms		The < MasterResource > group indenti
 ➡ Filter Settings ■ Graphics Often times, as in the example below, to another INI group known as a "CONI option would be located in the INI group. 	🖃 Sections		
Triggers to another INI group known as a "CONI	🗎 Filter Settings		
antion would be located in the INI group	Graphics		
HTML option would be located in the INI group	Triggers		
	HTML		option would be located in the INI group

In the Information pane, Studio provides information on the highlighted option.

Note In the above example, entries that appear in **red** are default entries that do not exist or actual entries that cannot be resolved.

If you right-click within the middle panel, you can choose from these options:

Option	Description
Add Option	Tells Studio to add a new INI option. Studio asks for the name of the control group, the name of the option, and the value you want to assign to the option.
Expand All	Expand all collapsed categories.
Collapse All	Collapse all expanded categories.
Search	Match whole string or case, search up or down for option.

If you right-click in a option field that does not offer a list, you can choose from these options:

Option	Description
Undo	Restore the field's contents.
Cut	Remove the highlighted text and place it on the clipboard.
Сору	Copy the highlighted text.
Paste	Insert the contents of the clipboard.
Delete	Delete the highlighted text.

Option Description

Select All Highlight the entire contents of the field.

You can add options to the INI file using the green button on the toolbar, and remove them using the X button. The arrows move options from one INI file to another:

	Data Data	
Click here to add an INI option.	AfgJobFile BatchTable	afgjob.jdt
This window then appears.	Datapath Datapath Db2TmDfd DbLogFile ErrFile	DATA\ DATA\ db2tnfl.dfd dblogfie.dat errfile.dat
	Excl Add Configuration Option Extr Logf Group Data Man Option Msg Value NaF	

You can also add options by right-clicking and selecting an option from the menu:

Data		
🔁 🗶 🛣 🧐 🥘		
🗾 Data		
AfgJobFile		afgjob.jdt
BatchTable		
Datapath		DATA\
Datapath		DATA\
Db2TmDfd	Print This Window	db2trnfl.dfd
DbLogFile	Export This Window to File	dblogfle.dat
ErrFile	Add Option	errfile.dat
Exclude	Remove Option	
ExtrFile	Move to another INI	INPUT\Extract.dat
LogFile	Toggle Information Pane Help	logfile.dat
Manual	riop	manual.bch
MsgFile		MsgFile
NaFile		nafile.dat

Option	Description
Print This Window	Print this window to local printer or print type.
Export This Window to File	Copy this window to file.
Add Option	Add an option and value to the control group.
Remove Option	Delete an option from the control group. Default options cannot be removed from the INI files.
Move to another INI	Move option to another INI file.
Toggle Information Panel	Show the information comments in the pane view.
Help	View online Help for this topic.

Note Any comments added to the Information panel will display in alphabetical order.

DEFINING STUDIO SETTINGS

Defining Studio settings is often one of the first tasks you will do. These settings affect how all documents appear on your screen. You can define Studio settings by choosing the Manage, System, Settings option from the main menu. Then click Studio Settings.

From Studio Settings you can also work with options that control the following:

То	See
Set Studio configuration options	Working with Configuration Options on page 77
Define workspace options	Defining Workspace Options on page 82
Set common and document viewing options	Working with Common/Document View Settings on page 84
Work with form options	Working with Form Options on page 86
Work with section options	on page 90
Filter Settings	Setting Section Filter Options on page 98
Work with graphic options	Working with Graphic Options on page 100
Work with trigger options	Working with Trigger Options on page 102
Set report style options	Setting HTML Style Options for Reports on page 104
Set Printstream Analyzer options	Setting Up Printstream Analyzer on page 105

WORKING WITH CONFIGURATION OPTIONS

To set basic Studio configuration options, click Configuration Options. This window appears:

Configuration Settings	Confi	guration Options	
atabase Handlers		(1) (2)	
aries			
Batches & Printers	🗢 Gen	eral	
ource Path Setup	Load	workspace	
ons by topic	The	ne	Office 2007
chive	Lang	uage	English ENU
csplit ommon	🗢 Effec	tive Date Management	
Tabase	Strin	gent Checking	
velopment Tools	Effec	tive Date Management	4/26/2017
ry	🗢 Conf	imations	
ort and Export	Appl	cation Exit	
ries	Obje	ct Deletions	
ry Project Management	Omit	DDTs On Import	
	🗢 Auto	Save	
ource Path Setup	Use	Auto Save	
Processing	Auto	Save Interval (minutes)	5
by group	🗢 Tool	bar	
ttings	Larg	e Icons	
ration Options	Show	v Text	
pace Information	🗢 View		
n / Document View	Tool	bar	
	Statu	is Bar	
5	Work	space	Open
er Settings Is	Outp	ut	Open
5	Com	mon Fields	Tab
	Data	Extract	Open
am Analvzer	Form	Set Navigation	Tab
	Scrip	ts	Tab

This table explains your options:

Option	Description
General	
Local Workspace	Check this box if you want Studio to automatically open the last workspace you were working with when you start Studio.
Theme	 Choose the Windows theme you want to use. You can choose from: Office 2003 Office 2007 Office XP Whidbey

Option	Description
Language	Modify the Language setting to view Documaker Studio Menus, menu options and dialogs in another language. Supported languages are listed in the Language pick list. If a label is not defined for the selected language, English is used as default.
Effective Date Managem	nent
Stringent Checking	Check Stringent Checking on initiate Effective Date Management. Remove the check to terminate Effective Date Management. Stringent Checking must be selected in order to access and modify the Effective Date Management date. When Stringent Checking is enabled, Library Manager will select and display the resource based on the Effective Date Management date. When Stringent Checking not enabled, Studio will select and display the resource based on the system date. Note: If Stringent Checking is enabled and there is no resource found effective in the library or on disk, a message will appear in the output window indicating that nothing
Effective Date	could be loaded for that item. Specify the date to be used for Effective Date Management. A future or past date can
Management	be specified. The date can be selected from the calendar or keyed in.
Confirmations	
Application Exit	Check this box if you want to see a confirmation message each time you exit an application.
Object Deletions	Check this box if you want to see a confirmation message each time you delete an object.
Omit DDTs on Import	Check this box if you want to omit DDT files on import. Some import systems do not have DDT files. This also applies to the trigger file when you are importing a form definition file.
Auto Save	 Use these options to define Studio's Auto Save feature. The naming convention Studio uses differs from the one used in Section manager. For instance, assume the name of the FAP file is <i>test.fap</i>. Section manager creates a file named <i>test.fap</i>~. Studio creates a file named <i>test.fap</i>~\$\$. Studio also automatically saves other file types such as BDF, GRP, and FOR files. The naming convention used for these files is the same, for example <i>form1.for</i>~\$\$. Database files are not affected by the Use Auto Save option. Database files are updated after every record change.
Use Auto Save	Check this box if you want Studio to automatically save your work at timed intervals.
Auto Save Interval	If you checked the Use Auto Save box, enter the number of minutes you want to elapse between auto saves. The default is five minutes. The Auto Save interval is applied individually to each document you have open. For instance You open document A at 10:00 You open document B at 10:02 Studio saves document A at 10:05 Studio saves document B at 10:07

Toolbar

Option	Description
Large Icons	Check this box if you want Studio to display large icons on the toolbars.
Show Text	Check this box if you want Studio to display the names of the icons.
View	
Toolbar	Check this box if you want Studio to display the toolbar.
Status Bar	Check this box if you want Studio to display the status bar.
Workspace	 Choose the window mode for your workspace. You can choose from these options: Closed Open Tab
Output	 Choose the window mode for the output area. You can choose from these options: Closed Open Tab If an error occurs, Studio displays the corresponding message in the output area even if it was hidden.
Common Fields	Choose the window mode. You can choose from these options:ClosedOpenTab
Data Extract	Choose the window mode. You can choose from these options:ClosedOpenTab
Formset Navigation	Choose the window mode. You can choose from these options:ClosedOpenTab
Scripts	Choose the window mode. You can choose from these options:ClosedOpenTab

Option	Description
Print this Window	Prints the contents of the window.
Export this Window to File	Lets you copy the contents of this window to a comma-separated value (CSV) file.
Apply Changes	Lets you apply your changes.
Default Settings	Restores the default settings.

Option	Description
Toggle Information Pane	Shows or hides the information pane. This pane provides information about the INI option currently highlighted.
Help	Displays Help information.

Effective Date Management

Prior to Release 12.6, a workspace's resources were selected and displayed in various Studio managers based on the system date where Studio was running. For example, if the system date was December 1, 2017, Studio's form manager would select and display the forms sections based that system date. In order to see the forms sections with a future effective date, the system date had to be modified and the workspace reloaded.

Effective Date Management eliminates the need to modify the system date. When Effective Date Management is enabled, Studio managers use the specified Effective Date Management date in tandem with the Stringent Checking option instead of the system date to select and display the workspaces resources. Effective Date Management impacts Studio only; there is no impact to non Studio applications.

Effective Date Management settings are available on the Configuration Options dialog. The Configuration Options are accessed through View, Options menu or through Manage-System-Settings.

The Status bar in Studio will display the Effective Date Management date when Stringent Checking is enabled.

Output			# ×
S Output			Ŷ
Output		_	
FORMAKER Done	20210128	CAP NUM S	CRL .:

Few points to consider:

- Once enabled, Stringent Checking and Effective Date Management remain in effect until Studio is terminated or until it the String Checking setting is manually disabled.
- The Stringent Checking option is ALWAYS unchecked each time Documaker Studio starts.
- There is no need to reload (close and reopen) the workspace after enabling Effective Date Management. Effective Date Management is in effect as soon as Stringent Checking is selected.
- Effective Date Management does not apply to Documaker Studio's Test Manager. Test Manager relies on the transactions Rundate.
- Effective Date Management has no impact on non-Studio Documaker products such as Documaker Server, Documaker Desktop, Command Line Utilities, Documaker Interactive, etc.

- Effective Date Management has no impact on non Documaker products or processes.
- If there is no version of the resource in the library which meets the date defined in the Effective Date Management setting, the system will not return the resource if it exists on disk.
- The Effective Date format honors the Windows Region and Language format setting
- The Effective Date setting applies to all workspaces opened from the desktop or network share where the Effective Date has been set.
- There are no specific user rights required to set and use the Effective Date Management option Stringent Checking and set the Effective Date Management date.
- The INI setting Stringent Checking in the LibraryManager group does not impact Effective Date Management.
- Effective Date Management does not prevent you from checking resources in or out of the library.
- The use of Effective Date will affect the view of subordinate resources shown on the resource you check out. For instance a forms sections and graphics in the forms sections will reflect the defined Effective Date Management date when Effective Date Management is in effect.
- Effective Date Management does not affect which resources are displayed in the library grid or which can be checked out, promoted or extracted.

The following example illustrates how Effective Date Management works

FormA contains Section1. There are 3 versions of Section1 in the library.

Section1 V1.1 Effective 1/1/2000

Section1 V2.1 Effective 1/1/2015

Section1 V3.1 Effective 1/1/2020

The current system date is June 1, 2017.

Check FormA out of the library.

The section displayed in FormA is Section 1 V2.1 effective 1/1/2015

While FormA is checked out of the library, turn on Stringent Checking and set the Effective Date Management date to January 1, 2001. The section displayed in FormA is Section 1 V1.1 effective 1/1/12000

Change the Effective Date Management date to January 2, 2020. The section displayed in FormA is Section 1 V3.1 effective 1/1/2020.

When Stringent Checking is turned off, the section displayed in FormA is Section 1 V1.2 effective 1/1/2015

DEFINING WORKSPACE OPTIONS

To work with configuration settings, click Configuration Options. This window appears:

INI Configuration Settings	Workspace Information
Database Handlers	
Ubraries	
Library Tiers	Shared Workspace
🛱 Print Batches & Printers	Enable Dictionary-Rule Manager
💏 Resource Path Setup	Enable Help Table Manager
Options by topic	DXM File
Archive	C.\FAP\mstrres\wtrainingcompany10\wtrainingcompany10.dwn
Arcsplit	DXS File
Common	
Database	C:\FAP\mstrres\wtrainingcompany10\wtrainingcompany10.DXS
Development Tools	FSI User File (FSIUSER.INI)
Entry	C:\FAP\mstres\wtrainingcompany10\fsiuser.ini
Import and Export	FSI System File (FSISYS.INI)
 Libraries 	C:\FAP\mstrres\xtrainingcompany10\fsisys.ini
 Library Tiers 	Beta Projects Workspace
 Print 	
Resource Path Setup	
Rules Processing	
WIP	
 Options by group 	
Studio Settings	Workspace Information
Configuration Options Workspace Information Common / Document View	General information about your workspace files appears here. It shows the location of the DXM and DXS workspace files currently used by the system. The INI file names also appear.
Forms	Shared Workspace
E Sections	Checked when this workspace is a shared workspace.
🖶 Filter Settings	
Graphics The second s	Enable Dictionary Rule Manager
in Triggers	Checked when this workspace uses the Dictionary Rule Manager. If you are using a master.ddt, enable this option.
 HTML Printstream Analyzer 	Beta Project Workspace Checked when this workspace is project-based.

General information about your workspace files is shown here, including the location of the DXM and DXS workspace files and the names of the INI files in use. This table explains your options:

Option	Description
Shared Workspace	Studio checks this box if the current workspace is a shared workspace.
Enable Dictionary-Rule Manager	Studio checks this box if this workspace uses the Dictionary Rule manager. If you use a master.ddt file, be sure to check this option.
DXM File	Here Studio shows you the path and file name for the DXM file currently in use.
DXS File	Here Studio shows you the path and file name for the DXS file currently in use.
FSI User File	Here Studio shows you the path and file name for the FSIUSER.INI file currently in use.
FSI System File	Here Studio shows you the path and file name for the FSISYS.INI file currently in use.

Option	Description
Print this Window	Prints the contents of the window.
Export this Window to File	Lets you copy the contents of this window to a comma separated value (CSV) file.
Apply Changes	Lets you apply your changes.
Default Settings	Restores the default settings.
Toggle Information Pane	Shows or hides the information pane. This pane provides information about the INI option currently highlighted.
Help	Displays Help information.

WORKING WITH COMMON/DOCUMENT VIEW SETTINGS

To work with common document viewing settings, click Common/Document View. This window appears:

INI Configuration Settings	Common / Document Vie	w	
👔 Database Handlers			
Libraries			
Library Tiers	🗢 General		
🚔 Print Batches & Printers	Measurement		FAPs
🚰 Resource Path Setup	Field Placeholder		Field Name
Options by topic			
Archive	Horizontal increments		2400 FAPs
Arcsplit	Horizontal line color		default
Common			
Database	Vertical increments		2400 FAPs
Development Tools	Vertical line color		default
Entry			
Import and Export			
Libraries			
Library Tiers			
Print			
Resource Path Setup			
Rules Processing			
WIP			
 Options by group 	$\land \leftrightarrow \Rightarrow $		
🕺 Studio Settings			
Configuration Options	Common / De	ocument View Options	
 Workspace Information 	Common 7 Do	cullent view options	5
Common / Document View	General		
Forms	General		
🖃 Sections	Measureme		nit of measurement for the display
🖶 Filter Settings		 centimete 	
🖪 Graphics			(2400 per inch)
Triggers		 inches picas 	
HTML		• picas • points	
🚳 Printstream Analyzer		• points	

This table explains your options:

Option	Description	
General		
Measurement	Select unit of measurement in which display will be made. You can choose from centimeters, FAP units (2400 per inch), inches, picas, or points.	
Field Placeholder	Choose the style of placeholder you want to use to indicate entry fields. You can choose from Template or Field Name style.	
Grid Settings		
Horizontal increments	Lets you set the horizontal size of a grid block.	
Horizontal line color	Click the icon in this field to choose the color for the horizontal grid lines.	
Vertical increments	Lets you set the vertical size of a grid block.	
Vertical line color	Click the icon in this field to choose the color for the vertical grid lines.	

Option	Description
Print this Window	Prints the contents of the window.
Export this Window to File	Lets you copy the contents of this window to a comma separated value (CSV) file.
Apply Changes	Lets you apply your changes.
Default Settings	Restores the default settings.
Toggle Information Pane	Shows or hides the information pane. This pane provides information about the INI option currently highlighted.
Help	Displays Help information.

WORKING WITH FORM OPTIONS

Choose Forms to define how you view documents on your screens. This includes setting up the grid and rulers. This window appears:

INI Configuration Settings	D	cument View	
🔒 Database Handlers			
Libraries			
Library Tiers		General	
🔐 Print Batches & Printers		Show Page Boundary	I
💏 Resource Path Setup		Show Cross Hairs	
Options by topic		Show Field Tips	
Archive		Ruler Settings	
Arcsplit		Show horizontal ruler	
Common			
Database		Show vertical ruler	∠
Development Tools		Grid Settings	
Entry		Show Horizontal Grid	\checkmark
Import and Export		Show Vertical Grid	\checkmark
Libraries			
Library Tiers			
Print			
Resource Path Setup			
Rules Processing			
WIP			
Options by group		+ → (
🖉 Studio Settings			
Configuration Options	l f	orm Manager Options	
 Workspace Information 		orm rianager options	
Common / Document View	6	General	
Forms			
E Sections		Show Page Boundary	Check this to highlight areas that m
Filter Settings		Show Cross Hairs	Check to see cross hairs drawn for i
Graphics		Show Field Tips	Check to see a tip window for fields
Triggers		Show Field Tips	check to see a tip window for fields
HTML			

This table explains your options:

Option	Description	
General		
Show Page Boundary	Check this box to have Studio highlight areas that may fall outside a page boundary.	
Show Cross Hairs	Check this box to have Studio draw cross hairs to indicate the mouse position.	
Show Field Tips	Check this box to have Studio display a information about the fields that appear in the window.	
Ruler Settings		
Show Horizontal Ruler	Check this box to show the horizontal ruler.	
Show Vertical Ruler	Check this box to show the vertical ruler.	
Grid Settings		
Show Horizontal Grid	Check this box to display the horizontal grid.	
Show Vertical Grid	Check this box to display the vertical grid	

Option	Description
Print this Window	Prints the contents of the window.
Export this Window to File	Lets you copy the contents of this window to a comma separated value (CSV) file.
Apply Changes	Lets you apply your changes.
Default Settings	Restores the default settings.
Toggle Information Pane	Shows or hides the information pane. This pane provides information about the INI option currently highlighted.
Help	Displays Help information.

WORKING WITH TEMPLATE OPTIONS

Studio lets you create templates for the forms you create with Studio. Templates can be used to implement and maintain document standards. They can also be used to quickly and efficiently create new forms.

Many of the Template Options and Template Section Options are identical to the Form Options and Form Section Options.

When a template is created from an existing form, the templates form and form section options are inherited from the form and forms sections. With a few exceptions (noted below) you can modify those settings to tailor the template to your specific needs.

General

General options are used to assign general information for the Template.

Option	Description
Name	Enter a name for the template. The name cannot be modified if the template was created by saving a form to a template in Form Manager.
Description	Enter a description for the template. The description is displayed on the Template Report.
Task Comments	To do comments that will appear when generating the "Printing a Finishing Report" for Templates.

Options

Option	Description
Multicopy	This option indicates whether more than one copy of the form can be used for a transaction in Documaker Desktop. Selecting this form option in Documaker Studio enables the Formset, Duplicate Option in Documaker Desktop for the form. Selecting Duplicate Form in Documaker Desktop will duplicate the form. Policy data and recipient copy information is propagated to appropriate fields.
Overflow	For legacy use.
Pull	Check this field to have a page print as a reminder to manually "pull" the form (from some physical location) and insert it into the resulting document set at the point indicated by this page. Policy jackets are often designated as Pull forms. Pull form option is honored in Documaker Desktop. Pull forms are not applicable in Documaker Server as high-volume print does not lend itself to manual insertion of forms.
Hidden	The form is hidden from view in Documaker Desktop; data can be embedded on the form for later use.
Staple	Indicates whether the form is to be stapled when printing output to Metacode or PCL.
Email Body	Indicates whether the form is to be included in the email body or attachment for email print (EPT). When enabled, the form is included in the email body and excluded from the email attachment. When not enabled, the form is excluded from the email body and included in the email attachment. Only the EPT driver looks for and responds to the email body option.
Form Metadata	Metadata are user defined name+ value pairs assigned to the document.

Page

Page options define the page properties. Templates created by saving a form to a template will inherit the forms Page settings which cannot be modified in Template Manager. If changes to the page settings are needed, you can either change the page settings at the form level in Form Manager, then save the modified form to a template again or create a new Template.

Option	Description
Size	Choose the paper size from the pick list.
Orientation	Choose from portrait or landscape. The default is portrait.

Option	Description	
Paper Stock	In Documaker, you can specify that a form should print on any of 9 paper trays. For Metacode printers, you can additionally specify what paper stock the form should print on. Here is an example of the Paper Stock INI options :	
	Pap Pap (<pap Des <pap Des Whit DJDE</pap </pap 	<pre>perStockIDs> perStockID = Drilled perStockID = 20lb and so on) perStockID:Drilled> cription = 3-hole paper perStockID:20lbW> cription = 20lb ePaper = DJDE name ger and Template Manager will display the e been defined:</pre>
	Paper Stock	None
		None 20LB = 20lb White Paper 65LB_BUSINESS_CARD = 65lb White Card St 80# = 80lb Blue Manual Covers BROCHURE = 38lb Marble Paper None
	See Specifying the Paper Stock in the Q Metacode Printers and Paper Stock.	utput Management guide for information on

Default Recipients

Recipients	Recip_Names INI option. For each recipient, you can specify whether the recipient should receive:
	One copy
	Two copies
	Three copies
	 A number of copies set via DAL (if not overridden by a trigger)
	A number of copies set via a GVM variable (if not overridden by a trigger)
	• Eligible
	The recipient is not eligible to receive copies of this form.

Mobile

Property attributes associated with Mobile:

Omit	Select this check box, if you do not want the object or resource to be included in the Mobile Output.
Context	Select this option to pick from a list of available tags or add a new one on the particular object.

Note This option requires Documaker Mobile. If you have not purchased and installed Documaker Mobile the required mobile options will be disabled. To purchase Documaker Mobile, visit My Oracle Support website or contact your Oracle Sales representative.

WORKING WITH TEMPLATE SECTION OPTIONS

General

These settings define the name, options and protection setting of the section.

Name	The Sections name	
Options		
	Entry and Print	Contains variable fields and is printed.
	Entry Only	Is for data entry only. The Section contains variable fields and is never printed, such as a Section designed for electronic Section exchange.
	Hidden	Section does not print, display or occupy space.
	Optional back	Section will only print on the back page when using duplex rolling.
	Placeholder	The form is hidden from view in the Entry system and does not print or occupy space. Data can be embedded on the form for later use.
	Print Only	Is a static Section which is printed, but does not contain variable fields.
	View and Print	Does not contain variable fields, but is printed.
	View Only	Displays in a window, but does not contain variable fields and is never printed, such as a Section used only for reference information.
Protect template item	Manager when the template is assigned For example, the template Auto 1 is assigned contains 2 sections – Collision and Liat Collision section. This prevents users for section in Form Manager. Changes can be made to a protected s • Removing the Protect template option • Modifying the section in the template	signed to your Auto form. Auto 1 template oility. Protect template item is enabled for the rom making any modifications to the Collision ection by either:

Page

Size	The size of the section. The value is inherited from	om the section.
Orientation	The orientation of the section. Choose from portrait or landscape. The default is portrait.	
Duplex		
	Default	Prints only on single-sided pages (not duplexed).
	Back Page	Is a back page in a duplexed form (pages 2, 4, 6, and so on).
	Front Page	Is a front page in a duplexed form (pages 1, 3, 5, and so on).
	Rolling	Prints on both sides of paper. Odd pages print on the front, even pages print on the back. Pages are duplexed in a book fashion, with odd pages on the right side, beginning with page 1, and even pages are on the left side, beginning with page 2. Note: You must mark the first Section as either front or back. Then, mark subsequent Sections as rolling.
	Short Bind	Prints on both sides of paper. Odd pages print on the front, even pages print on the back. Pages are duplexed in flip chart fashion, top to bottom.
Tray		
	Choose	If the Printer uses the
	Default	Default tray for printing.
	Lower/Tray 2	Lower tray for printing (tray paper size may vary according to printer type)
	Tray 3	Third tray for printing
	Tray 4	Fourth tray for printing
	Tray 5	Fifth tray for printing
	Tray 6	Sixth tray for printing
	Tray 7	Seventh tray for printing
	Tray 8	Eighth tray for printing
	Tray 9	Ninth tray for printing
	Upper/ Tray 1	Upper tray for printing (tray paper size may vary according to printer type).

Options

Same Page	If shown, check for section to start on the same page.
Printer resident	If this is a frequently-used Section on which the text never changes, you can check the Printer Resident field to have the system create an overlay of this Section, which will be stored on the printer. This can speed the printing process.
Background section	Check if you want this Section's origin to not affect subsequent Section origins.
Copy on overflow	Check if the Section is copied onto additional pages. If the Section is a header or footer, checking this option makes sure the Section appears on the top or bottom on each subsequent page.
Can Split	Use this option to indicate whether the section can split across multiple pages.
Can grow and shrink	Check if the Section size is not fixed. This option is useful when a Section contains a text area with embedded fields or a multi-line text field which lets the user enter varying amounts of text. If the button is checked but disabled, the Can Size is enabled in the Sections properties and therefore implies that the he section can grow on this form.
Embedded	Check if this section is embedded within the form and not a separate resource. Double click on an embedded section from within Form Manager to access Section Manager and make modifications to the embedded section. When you are in Section Manager mode on an embedded section, Section Manager menus! tabs display instead of Form Manager menus\ tabs. A green border is also displayed around the section. To exit Section Manager mode on an embedded section, press ESC key. Home Edt View Inset Format Arrange Tools Help Re Ber Bookmark Box Chart Field Graphic Guide Index and Line Note Page Stade Signature Table Text Area Special T C & Regention Options Operations Format Arrange Tools Help Re Ber Bookmark Box Chart Field Graphic Guide Index and Line Note Page Stade Signature Table Text Area Special T C & Regention Options Operations Format Arrange Tools Help Regention Options Format Area Special T C & Regention Options Format Area Special T & Special T & Special Text Area Special T & Regention Options Format Area Special T & Special Text Area Special T & Regention Options Format Area Special T & Special Text Area Special T & Spe
Stub	Indicates whether the footer is a stub. See Printing Stubs on page 450.
Inherit overflow	Use this option on a multipage section if headers and footers specified on the first page of the template should be copied onto subsequent pages of the multipage section added to the body of the template or form. If the Inherit Overflow option is selected and you remove the check mark, the copy on overflow sections are removed from subsequent pages of the multipage section.

Print Control

The Print Control options display when the Copy on Overflow option is enabled.

Not First	Do not print the first occurrence of this section
Last Only	Only print the last occurrence of this section
Not Last	Do not print the last occurrence of this section
Back Only	If it is a duplex page, print only on the back (even-numbered) pages. If it is a simplex page, do not print.
Front Only	If it is a duplex page, print only on the front (odd-numbered) pages. If it is a simplex page, print on all pages.

You can select multiple print options, such as Not Last and Back Only. If an occurrence of this section was on all pages, those selections would tell Documaker Server to print the section on all back pages, except for the last page of the form.

Note When you select multiple print options for a section, all options must be true for the section to print.

Keep in Mind:

- All simplex pages are considered front pages.
- The print control options do not determine the page duplex settings. For instance, if you select the Back Only option on a simplex form, the section is never printed.
- When you choose Last Only, Not Last, or Not First, it affects the first and last occurrence of the section in the form.
- For pagination, the header size is based on the largest possible header. Footer size is based on the largest possible footer.
- During processing, Documaker Server does not re-paginate the form set to accommodate varying size header and footer images.

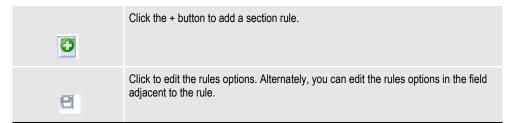
Page numbering is turned on by default. If you set the PageNumbers INI option to No to turn off page numbering, the system ignores your header/footer print options.

Position

Left type	 Choose a left and top type. Then set the left and top value if necessary. Abs - Absolute Page Position. Ctr - Current section X/Y dimensions centered on last section X/Y L2L - Current Section left relative to last Section left. L2R - Current Section left relative to last Section right. Max - Relative to last Section maximum edge. Mpg - Relative to any Section at the maximum edge. R2L - Current section right relative to last section left R2R - Current section right relative to last section right Rel - Relative to last Section top left coordinate. A section marked with absolute positions (ABS) cannot move, or float, on a page. This option works best with headers and footers that are going to copy onto other pages during overflow.
Left	Sets the X coordinate for a section. This determines the section's horizontal position.
Top type	 Abs - Absolute Page Position. B2B - Current Section bottom relative to last Section bottom. B2T - Current Section bottom relative to last Section top. Ctr - Current section X/Y dimensions centered on last X/Y Max - Relative to last Section maximum edge. Mpg - Relative to any Section at the maximum edge. Rel - Relative to last Section top left coordinate. T2B - Current Section top relative to last Section bottom. T2T - Current Section top relative to last Section bottom. T2T - Current Section top relative to last Section top. A section marked with absolute positions (ABS) cannot move, or float, on a page. This option works best with headers and footers that are going to copy onto other pages during overflow.
Тор	Sets the Y coordinate for a section. This determines the section's vertical position.
Store Origin Name	This lets you store the current Section coordinates in prefix-name variables for later use.
Fixed	Set to anchor or fix the section position.
From Page Bottom	Origin is applied from the page bottom. Sections marked as From Page Bottom have their origins applied first, starting from the last origin on the page moving up the page.
Must Fit	Section cannot cause overflow. If the section cannot fit on the page, the section will not be printed. The page bottom will be defined as the highest footer section or section with a from page bottom (FB) origin, within the width of the section.

Information

Section Rules



Field Overflow Defaults

Overflow properties tell Documaker what type of overflow to perform — Form, Section, or Formset (Section) and how many occurrences of data are used within each instance of the section.

Overflow	 Selections include: None - Do not perform overflow Section - Repeat a section on a specific form each time you overflow a field (or set of fields). Form - Repeat the entire form each time you overflow a field (or set of fields) Form Set - Repeat a Section each time you overflow a field (or set of fields) but the section occurs on multiple forms
Overflow Multiplier	Specifies how many occurrences of data are used within each instance of the section.

Section Recipients

Recipient	 Set the eligibility and copy counts of the recipient. For each recipient, you can specify whether the recipient should receive: One copy Two copies Three copies
	 A number of copies set via DAL (if not overridden by a trigger) A number of copies set via a GVM variable (if not overridden by a trigger) Eligible The recipient is not eligible to receive copies of this form.

WORKING WITH SECTION OPTIONS

These options control how Studio displays documents. For instance, you use these options to turn on or off rulers, show or hide the grid, and turn on or off automatic spell and grammar checking.

When you click Sections, this window appears:

INI Configuration Settings	Document View	
🏴 Resource Path Setup	V 🕲 3 30	
Options by topic		
Archive		
Arcsplit	Show Margins	
Common	Show Cross Hairs	
Database	Show Field Tips	
Development Tools	Allow user control of the Same Page option	 M
 Entry Import and Export 	▼ Ruler Settings	
Libraries	Show horizontal ruler	R
 Library Project Management 	Show vertical ruler	<u> </u>
 Print 	✓ Grid Settings	
Resource Path Setup	Show Horizontal Grid	
Rules Processing	Snap to Horizontal Line	
WIP	Show Vertical Grid	
 Options by group 	Snap to Vertical Line	
Studio Settings	▼ Save	
 Configuration Options Workspace Information 	Spell Check on Save	
Common / Document View	Grammar Check on Save	
Forms	✓ Auto Lasso	
Sections	Show multiple page reminder	4
🖶 Filter Settings	Tolerance	Medium (480 FAPs)
Graphics	Set "Can grow and shrink" on created Text Areas	
1 Triggers	Set "Can span pages" on created Text Areas	
HTML		
Printstream Analyzer	Set "Can grow and shrink" on created Text Area	
	Set "Can span pages" on created Text Area	

This table explains your options:

Option	Description
General	
Show Margins	Check this box to have Studio draw a red line on the page to indicate the page margins.
Show Cross Hairs	Check this box to have Studio draw cross hairs to indicate the mouse position.
Show Field Tips	Check this box to have Studio display a information about the fields that appear in the window.
Ruler Settings	
Show Horizontal Ruler	Check to show the horizontal ruler.
Show Vertical Ruler	Check to show the vertical ruler.
Use a Ruler in this Tool	Check to use a ruler when working with sections.
Grid Settings	
Show horizontal grid	Check to display the horizontal grid.
Snap to horizontal line	By checking, the object entered will snap (be placed) to the closest horizontal line below it.
Show vertical grid	Check to display the vertical grid.
Snap to vertical line	By checking, the object entered will snap (be placed) to the closest vertical line to the left of it.

Option	Description
Save	
Spell check on Save	Check this option to have Studio automatically check spelling when you save a section.
Grammar check on Save	Check this option to have Studio automatically check grammar when you save a section.
Auto Lasso	
Show multiple page reminder	Check this option to have Studio show a reminder when Auto Lasso is clicked for a section that is comprised of multiple pages.
Tolerance	 Here you indicate the amount of separation items can possess and still be grouped together. You can choose from: Low, Medium, and High, with High indicating a more aggressive lasso than Low. The values associated with Low, Medium, and High reflect the unit of measurement you chose. This is what you get if you chose FAP units: Low = 240 FAPs Medium = 480 FAPS High = 960 FAPS 240 FAPs is equal to 1/10th of an inch. For example, if you choose High, objects separated by less than 960 FAPs (4/10s of an inch) are automatically lassoed.
Set "Can grow and shrink" on created Text Areas	Check to have Studio set the "Can grow and shrink" option on all of the Text Areas created.
Set "Can span pages" on created Text Areas	Check to have Studio set the "Can span pages" option on all of the Text Areas created.
Convert to Text Area	
Set "Can grow and shrink" on created Text Areas	Check to have Studio set the "Can grow and shrink" option on the created Text Area.
Set "Can span pages" on created Text Areas	Check to have Studio set the "Can span pages" option on the created Text Area.

Setting Section Filter Options

Choose Filter Settings to define the filter settings that apply when you are working with sections. This window appears:

INI Configuration Settings	Filter Settings	
Database Handlers		
Libraries		
Library Tiers	Selection Filter	
🔐 Print Batches & Printers	Bar Codes	Selectabl
🚰 Resource Path Setup	Bookmarks	Selectabl
Options by topic	Boxes	Selectabl
Archive	Charts	Selectabl
 Arcsplit 	Fields	Selectabl
Common	Guides	Selectabl
Database		
Development Tools	Hidden Fields	Selectabl
Entry	Index and Contents	Selectabl
Import and Export	Lines	Selectabl
Libraries	Graphics	Selectabl
Library Tiers	Notes	Selectabl
Print Print	Shades	Selectabl
Resource Path Setup	Signatures	Selectabl
Rules Processing	Tables	Selectabl
WIP WIP	Text Areas	Selectabl
Options by group		
🕺 Studio Settings	Text Labels	Selectabl
Configuration Options	Vectors	Selectabl
Workspace Information	➡ Display Filter	
Common / Document View	Bar Codes	Show
Forms	Bookmarks	Show
E Sections	Boxes	Show
Filter Settings	Charts	Show
Graphics	Fields	Show
Triggers	Guides	Show
		Snow

For each type of object, you can choose from these selection filter settings:

Option	Description
Cannot move	Check this option if you do not want anyone to move this type of object.
Non-selectable	Check this option if you do not want anyone to select this type of object.
Selectable	Check this option to let people select this type of object.

Display filter

For each type of object, you can choose from these display filter settings:

Option	Description
Hide	Tells Studio to list the object in the object tree but hide it in the work area.
Show	Tells Studio to show the object as you create it.
Placeholder	Display a placeholder instead of the actual object.
Use Placeholder when empty	Display a placeholder when the actual object is empty.

Option	Description
Print this Window	Prints the contents of the window.
Export this Window to File	Lets you copy the contents of this window to a comma separated value (CSV) file.
Apply Changes	Lets you apply your changes.
Default Settings	Restores the default settings.
Toggle Information Pane	Shows or hides the information pane. This pane provides information about the INI option currently highlighted.
Help	Displays Help information.

WORKING WITH GRAPHIC OPTIONS

These options control how Studio displays graphics. For instance, you use these options to select the unit of measurement, turn on or off rulers, set ruler colors, and so on. When you click Document View, this window appears:

INI Configuration Settings		
Database Handlers	Document View	
Library Tiers		
Print Batches & Printers	Show horizontal ruler	
Resource Path Setup		
Options by topic	Show vertical ruler	
Archive	▼ Grid Settings	
Arcsplit	Show Horizontal Grid	\checkmark
Common	Show Vertical Grid	☑
Database		
Development Tools		
Entry		
Import and Export		
Libraries		
Library Tiers		
Print		
Resource Path Setup		
 Rules Processing 		
WIP		
Options by group		
🕺 Studio Settings		
Configuration Options	Graphic Manager Options	
Workspace Information	Graphic Manager Options	
Common / Document View	These options control how Studio displays bitmap graphics. Fo	or instance,
Forms	display or hide rulers, and set ruler colors.	
E Sections		
Filter Settings	Ruler Settings	
Graphics	-	heck to sho
Triggers		heck to sho
	Nhow vortical ruler C	heek to sho

This table explains your options:

Option	Description
Ruler Settings	
Show horizontal ruler	Check this option if you want Studio to show the horizontal ruler.
Show vertical ruler	Check this option if you want Studio to show the vertical ruler.
Grid Settings	
Show Horizontal Grid	Check this option if you want Studio to display the horizontal grid.
Show Vertical Grid	Check this option if you want Studio to display the vertical grid.

Option	Description
Print this Window	Prints the contents of the window.
Export this Window to File	Lets you copy the contents of this window to a comma separated value (CSV) file.
Apply Changes	Lets you apply your changes.
Default Settings	Restores the default settings.

Option	Description
Toggle Information Pane	Shows or hides the information pane. This pane provides information about the INI option currently highlighted.
Help	Displays Help information.

WORKING WITH TRIGGER OPTIONS

Use these options to set up the color for the various elements of a DAL script. For instance, for readability purposes you can define different colors for the following:

- Keywords and functions
- Numeric and string constants
- Comments
- Operators
- Brace Matching

When you choose Triggers, this window appears:

INI Configuration Settings	Triggers	
Database Handlers	✓ № 9.00	
Libraries		
Print Batches & Printers	 Script Editor Settings 	
💏 Resource Path Setup	Keywords	
Options by topic	Functions	
Archive	Numerical Constants	
 Arcsplit Common 	String Constants	
 Database 	Comments	
 Development Tools 	Operators	
 Entry 	Brace Matching	
Import and Export	Tab Size	3
Libraries	Code Folding	3
Library Project Manage	Folding Style	Box Tree
Print	Line Numbers	7
Resource Path Setup	Symbol Margin	I I I I I I I I I I I I I I I I I I I
Rules Processing	Auto Indenting	I I I I I I I I I I I I I I I I I I I
WIP	Font Size	10
Options by group Studio Settings		
Configuration Options	1	
 Workspace Information 		
Common / Document Viev		
Forms	1	
E Sections	1	
🗎 Filter Settings	1	
Graphics	1	
Triggers	1	
- HTML		
Printstream Analyzer	1	
	L	
(m))		
		OK Cancel Help

This table explains the Script editor options:

Option	Description
Keywords	Click the icon in this field to display the Color Selection window so you can select the color you want to use.
Functions	Click the icon in this field to display the Color Selection window so you can select the color you want to use.
Numerical Constants	Click the icon in this field to display the Color Selection window so you can select the color you want to use.
String Constants	Click the icon in this field to display the Color Selection window so you can select the color you want to use.

Option	Description
Comments	Click the icon in this field to display the Color Selection screen and select the color you want to use.
Operators	Click the icon in this field to display the Color Selection screen and select the color you want to use.
Brace Matching	Click the icon in this field to display the Color Selection screen and select the color you want to use.
Tab Size	Enter the number of spaces you want Studio to use to represent a TAB character. The default is three (3).
Code Folding	Check this box to enable or disable code folding. Code folding lets you collapse or expand blocks of code.
Folding Style	When code folding is enabled, use this option to select the folding style. You can choose from Arrow, Simple, Circle Tree, or Box Tree.
Line Numbers	When selected, a line number appears to the left of each line of code. Remove this check mark to hide line numbers.
Symbol Margin	When selected, a margin is reserved to the left of each line of code for symbol display. If not selected, then markers change the background color of the line rather than displaying a symbol.
Auto Indenting	When selected and you press ENTER, the new line of text is automatically indented to the same tab stop as the line preceding it. Remove this check mark to tell Studio to turn off auto indenting.
Font Size	Specifies the default font size when editing a script.

Option	Description
Print this Window	Prints the contents of the window.
Export this Window to File	Lets you copy the contents of this window to a comma separated value (CSV) file.
Apply Changes	Lets you apply your changes.
Default Settings	Restores the default settings.
Toggle Information Pane	Shows or hides the information pane. This pane provides information about the INI option currently highlighted.
Help	Displays Help information.

SETTING HTML STYLE OPTIONS FOR REPORTS

Use the HTML settings to define a default report style for any reports generated by Documaker Studio. You can change this setting as needed when printing reports.

INI Configuration Settings	HTML			
Database Handlers				
Libraries	✓ № 9	y 🛛		
Jibrary Tiers	👻 Genera	4		
Print Batches & Printers	Report			Default
Resource Path Setup	nepuit	siyie		Derduk
E Options by topic				
Archive				
Arcsolit				
Common				
Database				
 Development Tools 				
Entry				
 Import and Export 				
Libraries				
Library Tiers				
Print				
Resource Path Setup				
Rules Processing				
 Koles Processing WIP 				
 Options by group 	^ ← -	. (=1		
Studio Settings		* 3		
Configuration Options	1177.04	Ontinun.		
Workspace Information	HIM	L Options		
Common / Document View		and the second sec		
Forms	Gen	erai		
E Sections		Report Style		to reports generated by Studio. The options are:
Filter Settings			 Default 	
Graphics			 Elegant 	
Triggers			Plain	
HTML			Note that this stule will apply t	to all reports or other HTML based output. To see
Printstream Analyzer			the generated style code see	
All the second analyzer			the generated style code see	toport oxyros.

The following report styles are available:

- Default
- Elegant
- Plain

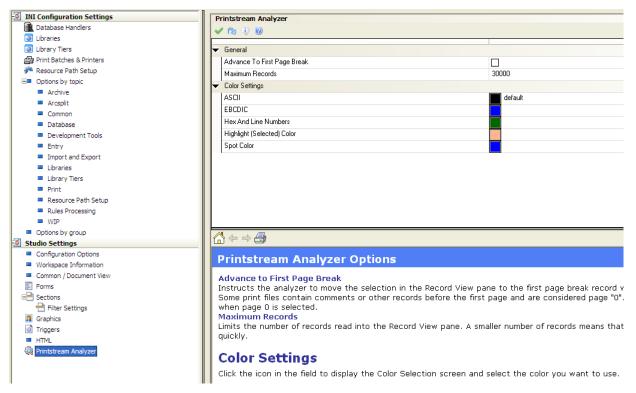
Note For examples of these styles, see *Producing Reports* on page 745.

Option	Description
Print this Window	Prints the contents of the window.
Export this Window to File	Lets you copy the contents of this window to a comma separated value (CSV) file.
Apply Changes	Lets you apply your changes.
Default Settings	Restores the default settings.
Toggle Information Pane	Shows or hides the information pane. This pane provides information about the INI option currently highlighted.
Help	Displays Help information.

SETTING UP PRINTSTREAM ANALYZER

You can use the Printstream Analyzer to open and analyze AFP or Metacode print streams. The Printstream Analyzer is available from the workspace tree and from the Manage, Tools menu.

To set options that affect Printstream Analyzer, click Printstream Analyzer. This window appears:



This table explains your options:

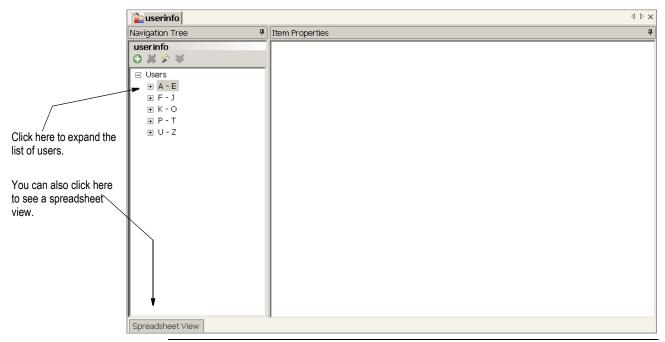
Option	Description
Advance to First Page Break	Check this box to tell Printstream Analyzer to move the selection in the Record View pane to the first page break record when a print file is opened. Some print files contain comments or other records before the first page. These comments or records are considered page zero (0). The Display pane is blank when you select page zero (0).
Maximum Records	Limits the number of records read into the Record View pane. A smaller number of records means the print file loads more quickly.
ASCII	The color used for ASCII records in the Record View pane.
EBCDIC	The color used for EBCDIC records in the Record View pane.
Hex and Line Numbers	The color used for the hexadecimal and line numbers on the sides of the Record View pane.
Highlighted (Selected) Color	The color used for highlighted or selected text and images in the Display pane.
Spot Color	The color used for spot color text and lines in the Display pane

Option	Description
Print this Window	Prints the contents of the window.
Export this Window to File	Lets you copy the contents of this window to a comma separated value (CSV) file.
Apply Changes	Lets you apply your changes.
Default Settings	Restores the default settings.
Toggle Information Pane	Shows or hides the information pane. This pane provides information about the INI option currently highlighted.
Help	Displays Help information.

MANAGING USERS

Choose the Manage, System, Users option to work with the user profiles you have set up.

Here is an example of the window that appears if you are authorized to work with user profiles:



Note You must have an adequate security level to work with users. Otherwise, these options are not available to you.

The system provides you with three default user IDs:

Documaker, Formaker and User1.

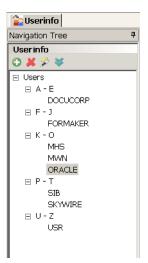
- Contact your system administrator if you need access as one of these users.
- The User ID of the person who created the workspace is the System Administrator of the workspace.
- The user Documaker is also System Administrator of the workspace.
- If the User ID of the person who created the workspace is accidentally deleted, you can use the Documaker user ID to re-add that User ID
- System Administrator allows access to system options, including User ID setup, Settings (INI files) and so on.

Do not disclose the Documaker ID to those who are not authorized system supervisors or support technicians.

New users who open or join a workspace are automatically added to the user database and inherit the attributes of USER1. Therefore, the System Administrator of the workspace should change USER1 settings to have the level and security rights you want all users to have.

Note In versions 12.0 and earlier, the three default user IDs are Docucorp, Formaker and User1.

To see a list of users you can right-click under Users to expand the items in the tree, as shown here:



Or click the Spreadsheet View tab, as shown here:

User ID:	User Name:	Password:	Workstation Rights:	In Use:	Report To:	Security	Message:
DOCUCORP	Docucorp	Change Password	0	Yes		Security	
FORMAKER	Formmaker	Change Password	0	No		Security	
MHS	Mary Hallie	Change Password	0	No		Security	
MWN	Michael Wayne	Change Password	0	No		Security	
ORACLE	Oracle	Change Password	0	No		Security	
SIB	Susan Ingram	Change Password	0	No		Security	
SKYWIRE	Skywire	Change Password	0	No		Security	
USR	Ulysses Simpson	Change Password	9	No		Security	

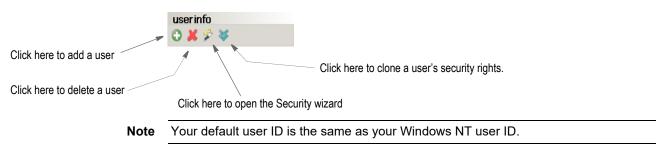
To work with a specific user, click that user. You can work with user information directly from the Spreadsheet View or from the Item Properties window.

	Item Properties	д
[• •	
	✓	
Once you select a user,	User ID:	DOCUCORP
Studio shows you the basic	User Name:	Docucorp
information for that user.	Message:	
Information for that user.	Report To:	
	Workstation Rights:	0
	In Use:	Y
	Password:	solololololok
	Verify Password:	sololololok
	Security	Ҟ Configure

Studio shows you information about...

- The user's name and ID
- Who the user reports to
- Access rights and In Use status

It also tells you if there is a message set up to appear to the user when he or she logs in. The tools on the User Info toolbar let you quickly add new users, delete users, open the security wizard, or clone a user.



ADDING USERS

To add a user, click the Add User tool on the toolbar:

Click here to add a user.

🔁 🗶 ⋟ 😽

userinfo

Then fill in the following fields to add a user:

9		
,		
User ID:	NEWUSER000	
User Name:		
Message:		
Report To:	DOCUCORP	
Workstation Rights:	9	
In Use:	N	
Password:	Xololok	
Verify Password:	skolokok	
Security	💘 Configure	

Field	Description
User ID	Enter an ID for the user. User IDs can contain up to 64 alphanumeric characters. Each ID must be unique.
User Name	Enter the user's full name.
Message	Enter the message you want Studio to display to the user when he or she starts Studio.
Report To	Select the user's supervisor from the list that appears when you click the arrow.
Workstation Rights	Enter a number between 1 and 9 for the workstation access level. Level zero (0) is reserved for the system supervisor. <i>Docucorp</i> is the default system supervisor. Studio makes no distinction between levels 1-9, so you can define these levels any way you like.
In Use	This field shows whether a user is logged into Studio. With proper rights, you can change the In Use status, which can be necessary if you need to reset a locked user ID. User IDs can become locked if the system is shut down inadvertently, such as when there is a loss of power. Once locked, Studio will display a message stating the user ID is already in use the next time that user attempts to log on.
Password	Enter the password you want to assign to this user ID. Studio displays asterisks (*) as you type the password.
Verify Password	Enter the password again to verify it.
Security	 Click the Configure button to open the Security wizard. From the Security wizard you can Determine if the user is a system administrator. Set general user rights, such as the right to manage other users, access your own record, change passwords, and so on. Grant access to INI options. Control library access and the actions the user can perform within the library. Limit access to the various managers, such as Forms, Section, and Trigger manager. Define creation rights for fields, triggers, templates, or all resources. Assign a project role, such as an administrator, developer, tester, reviewer, and so on.

Note Studio's Conversion wizards check the user's security settings before saving adjustments to INI files.

During conversions, Studio will still adjust INI values as necessary, but the security check prevents Studio from automatically saving those changes, unless you have the proper security settings.

For example, performing conversions from normalized Metacode or AFP to a section (FAP) can alter some INI settings. Those settings are not saved, however, unless the user has the appropriate security rights.

CHANGING USER INFORMATION

To change a user's information, select the user and then simply type into the appropriate field. Studio records your changes when you click to another field or user.

DELETING USERS

To delete a user, highlight the user you want to delete then click the Delete User tool on the toolbar:

userinfo C 👗 🌮 😻

Click here to delete a user.-

Studio lets you confirm the deletion before it actually deletes the user.

SETTING RIGHTS USING THE SECURITY WIZARD

Use this wizard to modify any security settings for a user. When adding or changing user information, you can click the Configure button in the Security field to open the Security wizard. You can also click the Security wizard icon.

us	erir	fo		
0	X	۶	¥	

Click here to open the Security wizard.

The Security wizard appears.

🌮 Security Wizard - User:NEWUS	ER000	×
System Administrator User	¢)	ОК
Settings		Cancel
Library Resources		Apply All
Rights		
Projects		
		1.

From the Security wizard you can control rights in these areas:

Area	Description
System Administrator	Determines if the user is a system administrator. See <i>System Administrator rights</i> on page 112 for information about these settings.
User	Sets general user rights, such as the right to manage other users, access your own record, change passwords, and so on. See <i>User rights</i> on page 112 for information about these settings.
Settings	Grants access to INI options. See Settings rights on page 113 for information about these settings.
Library	Controls library access and the actions the user can perform within the library. See <i>Library rights</i> on page 113 for information about these settings.

Area	Description
Resources	Limits access to the various resource managers, such as Forms, Section, and Trigger manager. See <i>Resource rights</i> on page 114 for information about these settings.
Rights	Defines creation rights for fields, triggers, templates, or all resources. See <i>Rights</i> on page 116 for information about these settings.
Projects	Assigns a project role, such as an administrator, developer, tester, reviewer, and so on. See <i>Project rights</i> on page 117 for information about these settings.

System Administrator rights

Click System Administrator to set these rights:

System Administrator	
Access shared workspace file	

Field	Description
System Administrator	Check this box to indicate that this user is a system administrator. This gives the user access to all workspace functionality.
Access Shared Workspace File	Check this box if the user is not a System Administrator, but still needs to be able to manage a shared workspace. Typical users will not need this level of access.

User rights

Click User to set these rights:

User Administrator	
Manage Users	
Access own record	No Access
Change password on next log in	
Cannot change sandbox location	

Field	Description
User Administrator	Check this box to indicate that this user is an administrator of the user database. This lets this user activate or deactivate security settings for all users except system administrators.
Manage Users	Check this box to indicate that this user is a manager of other users.
Access Own Record	Check this box if you want to allow this user to access his or her own record in the database. By checking this box, you give this user the right to change the descriptive name and password, but not other attributes.
Change Password on Next Log In	Check this box to give this user the right to change his or her password on the next log in.
Cannot Change Sandbox Location	The default location for a user's sandbox in a shared environment is a directory under the workspace location named for the user. Check this option to prevent this user from changing that location when joining the workspace. The <i>sandbox</i> is the location where the files you have checked out are saved when you are part of a shared workspace. Normally, each user has his or her own sandbox (subdirectory). This subdirectoy can be on a local drive or it can be relative to the shared workspace location — which is usually created using the user ID as the name. It is possible for several users to share a sandbox, but that increases the chance that another user might modify or delete files you are working with.

Settings rights

Click Settings to set these rights:

INI Access Override Settings	Unable to change INI Settings
Field	Description
INI Access	Check this box if you want this user to change INI option settings. INI options tell the system how you want it to operate. These options are stored in these INI files: FSISYS.INI and FSIUSER.INI. For more information, see <i>Working With INI</i> <i>Options</i> on page 67.
Override Settings	Check this box if you want to let this user override system settings by adding local settings.

Library rights

Click Library to set these rights:

Libron (Administrator	
Library Administrator	
Limited Property Modifice	ations
Perform Promotions	
Delete Library Entries	
Make Effective Date Cha	nges 🗌
Modify Prior Versions	
Collapse Revisions	
Expire/Unexpire Versions	s 🗌
Secure Resources	
Purge History	
Library create	
Check out from non-Dev t	tier 🗌
	ier

Field	Description
Library Administrator	Check this box if you want to make this user a library administrator. Library administrators have access to all library functionality.
Limited Property Modifications	Check this box if you want this user to modify the description, mode, status, class and project attributes of library resources.
Perform Promotions	Check this box if you want this user to promote resources within the library.
Delete Library Entries	Check this box if you want this user to delete library entries.
Make Effective Date Changes	Check this box if you want this user to change the effective dates of resources stored in the library.
Modify Prior Versions	Check this box if you want this user to modify prior versions of a library resource.
Collapse Revisions	Check this box if you want this user to collapse library revisions. Note: Collapsing library revisions deletes those revisions.
Expire/Unexpire Versions	Check this box if you want this user to expire and unexpire library resources.

Field	Description
Secure Resources	Check this box if you want this user to have the ability to secure resources. Securing a resource means that it can only be checked out by a certain person or certain group if you are using the LDAP security model. For instance, suppose you have many users that have the right to check out FOR files. But you have a certain FOR file that should be restricted to a certain individual. In that case, you would secure the FOR file to that user ID using Library manager. Then, only that user ID would have the ability to lock that file. See <i>Adding Security at the Resource Level</i> on page 120 for more information.
Purge History	Check this box if you want this user to purge library history.
Library Create	Check this box if you want this user to create new library destinations.
Check out from non- Dev tier	Check this box if you want this user to check resources out of a non-development library.

Resource rights

For each resource manager, you can choose to give this user one of these levels of access:

- Full Access Gives the user full access to this manager.
- No Access Removes references to this manager from the software and does not allow the user to start this manager.
- View Only Access Lets the user view a resource but not modify it.

You need Full Access or View Only Access to access\work with a particular manager. Else, contact the System Administrator for that workspace

Click Resource to set these rights:

Application Manager	Full Access
Form List Manager	Full Access
Form Manager	Full Access
Section Manager	Full Access
Paragraph List Manager	Full Access
Paragraph Manager	Full Access
Style Manager	Full Access
Template Manager	Full Access
Graphics Manager	Full Access
Trigger Manager	Full Access
Data Extract Manager	Full Access
Common Field Manager	Full Access
Dictionary-Rule Manager	Full Access
Definition Lookup Manager	No Access
Font Manager	No Access
Deployment Manager	No Access

Manager Description

Application manager	Choose from Full Access, No Access, or View Only Access to set this users ability to access Application manager. This manager lets you work with the business definition file (BDF).
	If you select No Access, this user will not see options to start this manager.

Manager	Description
Form List manager	Choose from Full Access, No Access, or View Only Access to set this users ability to access Form List manager. This manager lets you work with form lists. If you select No Access, this user will not see options to start this manager.
Forms manager	Choose from Full Access, No Access, or View Only Access to set this users ability to access Forms manager. This manager lets you work with forms. If you select No Access, this user will not see options to start this manager.
Sections manager	Choose from Full Access, No Access, or View Only Access to set this users ability to access Sections manager. This manager lets you create, modify, and delete the sections that comprise your forms. If you select No Access, this user will not see options to start this manager.
Paragraph List manager	Choose from Full Access, No Access, or View Only Access to set this users ability to access Paragraph List manager. This manager lets you work with lists of paragraphs. If you select No Access, this user will not see options to start this manager.
Paragraph manager	Choose from Full Access, No Access, or View Only Access to set this users ability to access Paragraph manager. This manager lets you create, modify, and delete individual paragraphs. If you select No Access, this user will not see options to start this manager.
Style manager	Choose from Full Access, No Access, or View Only Access to set this users ability to access Style manager. This manager lets you create, modify, and delete individual styles that appear on your templates. If you select No Access, this user will not see options to start this manager.
Template manager	Choose from Full Access, No Access, or View Only Access to set this users ability to access Template manager. This manager lets you work with the templates you use when creating forms. If you select No Access, this user will not see options to start this manager.
Graphics manager	Choose from Full Access, No Access, or View Only Access to set this users ability to access Graphics manager. This manager lets you work with graphics (LOG) files. If you select No Access, this user will not see options to start this manager.
Trigger manager	Choose from Full Access, No Access, or View Only Access to set this users ability to access Triggers manager. This manager lets you create, modify, and delete the triggers that can determine if a form is printed. If you select No Access, this user will not see options to start this manager.
Data Extract manager	Choose from Full Access, No Access, or View Only Access to set this users ability to access Data Extract manager. This manager lets you work with the fields in the extract dictionary. If you select No Access, this user will not see options to start this manager.
Common Fields manager	Choose from Full Access, No Access, or View Only Access to set this users ability to access Common Fields manager. This manager lets you work with the fields stored in the common fields dictionary. If you select No Access, this user will not see options to start this manager.
Dictionary-Rule manager	Choose from Full Access, No Access, or View Only Access to set this users ability to access Dictionary Rule manager. If you select No Access, this user will not see options to start this manager.

Manager	Description
Definition Lookup manager	Choose from Full Access, No Access, or View Only Access to set this users ability to access Definition Lookup manager. This manager lets you work with the definitions used in lookups. If you select No Access, this user will not see options to start this manager.
Font manager	Choose from Full Access, No Access, or View Only Access to set this users ability to access Font manager. This manager lets you work with the font cross-reference (FXR) file. If you select No Access, this user will not see options to start this manager.
Deployment manager	Choose from Full Access or No Access to set this users ability to access Deployment manager. This manager lets you handle the deployment of resources. If you select No Access, this user will not see options to start this manager.

Rights

Click Rights to change these settings:

Rights	
۹) 🔞	
Modify existing library resources only	
Limit to pre-defined fields	
Limit to pre-defined triggers	
Limit to using templates	
Limit to pre-defined context tags	
Limit to pre-defined redact tags	

Field	Description
Modify existing library resources only	This right restricts the ability to create resources. If you check this box, the user can only check out and change existing resources.
Limit to pre-defined fields	This right restricts the ability to create a field. If you click this option, the user can only choose entries from the field database or the extract dictionary.
Limit to pre-defined triggers	This right restricts the ability to create a trigger. If you click this option, the user can only select triggers from the trigger list.
Limit to using templates	This right restricts the ability to create a form without using a template. If you click this option, the user must choose from pre-defined form templates.
Limit to pre-defined context tags	When checked, the user is only allowed to select from predefined tags specified in the application definition. Users without this restriction are allowed to create context tags dynamically outside the application definition scope.
Limit to pre-defined Redact tags	When checked, the user is restricted to selecting from predefined redact tags defined in the application definition file. Users without this restriction can create redact tags dynamically.

Note Users who are system administrators are not affected by these options.

Project rights

Click Project to set these rights:

Project Administrator	
Project Developer	
Project Tester	
Project Reviewer	
Project Promotion	
Project Outside	

Field	Description
Project Administrator	Check this box to indicate that this user is a project administrator and can create, modify, and delete projects and perform other project management roles.
Project Developer	Check this box to indicate that this user is a project developer.
Project Tester	Check this box to indicate that this user is a project tester.
Project Reviewer	Check this box to indicate that this user is a project reviewer.
Project Promotion	Check this box to indicate that this user is allowed to promote project resources.
Project Outside	Check this box to indicate that this user is allowed to work outside of defined projects.

CLONING USER RIGHTS

Cloning a user's security rights is a quick way to give one user the same level of access rights as another. To clone a user, click the Clone User's Security Rights tool on the toolbar:

user info Click here to clone a user's security rights. ↔ ★ ★ ←

When you click the clone tool, this window appears:



Click here to choose a user.

Click here to assign that user's security rights to the current user.

LOGGING IN

Here is an example of the login window:

🗖 Logon					×
ORACL	-e [.]				T
User ID:	1				
			<u>0</u> K	Cance	el

STORING USER INFORMATION IN ANOTHER DATABASE

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By default, the system stores user information in xBase format. You can, however, store user information in SQL or another database format. For example, to use SQL via an ODBC connection to store user IDs, here is how you would set up your INI file:

DBHandler:ODBC >		
Debug	=	Yes
InstallFunc	=	SQInstallHandler
InstallMod	=	SQW32
CreateIndex	=	No
CreateTable	=	Yes
UserID	=	sa
Passwd	=	password
Qualifier	=	dms1
Server	=	wipdata

Use these options to specify the database type:

Option	Description
Qualifier	Enter the name of the database that will hold the table.
Server	Enter the name of the ODBC connection you made to connect to the database.

The DBTable:USERINFOSQL control group defines the USERINFOSQL table. This is the custom SQL table the system will create if it does not already exist:

```
< DBTable:USERINFOSQL >
```

DBHandler	= ODBC
UniqueIDTag	= UNIQUEIDTAG
UniqueTag	= IDTAG
DefaultTag	= UNIQUEIDTAG
Debug	= Yes

If you are using ODBC, the File option should specify the name of the table in the database to use. USERINFOSQL is the custom SQL table that will be created if not present.

```
< UserInfo >
File = USERINFOSQL
SupportSuperUser = Yes
```

Use these options to import user IDs from a default xBase userinfo.dbf file, a comma-delimited text file, or an SQL table:

```
< UserImportFunctions >

01 = ;Text file;USRMAINT->USRImportText;

02 = ;Another UserInfo database;USRMAINT->USRImportDBF;

03 = ;Another database using ODBC;USRMAINT->USRImportODBC;

\DBTable:UserInfo_1
```

Note that the 01 option specifies the name of the table you are importing.

ADDING SECURITY AT THE RESOURCE LEVEL

You can secure resources in Library manager so only the users you authorize can check them out. For instance, this lets you control who can change a graphics (LOG) file that contains a signature.

Studio provides broad categories for security, such as access by file type (BDF, GRP, FOR, FAP, and so on). For instance you can give a user ID full, access, no access, or view-only access to all forms and images. You may, however, have resources that need specific restriction, such as a need to restrict access to LOG files to specific individuals, or groups if you are using the Lightweight Directory Access Protocol (LDAP) security model.

Note For more information about LDAP, see Using the LDAP Security Model on page 122.

Studio lets you restrict access to individual library resources within a given type. To expand on the first example, suppose you have graphics (LOG files) in your library that represent signatures. You might secure those resources by restricting them to a particular user or group of users when using the LDAP model. That way, even though other users could access other LOG files, only specific individuals would have the ability to modify the LOG files that contain signatures.

Note If you are not using the LDAP model, an ID represents a single user. In the LDAP model, the ID could represent a single user or a group of users.

Here is another example within the LDAP security model. Suppose you have two groups of developers who share the same library. You want them to share the library because all of the business runs from a central location. You may, however, want to make sure one group does not accidentally check out or change forms that belong to the other group.

For instance, group one might be distinguished by the line of business they work on, such as Life and Property. To meet this need, you could secure the appropriate resources using an ID that represents the *group* to which individual users belong. Group affiliation is a feature of LDAP security Studio can use.

So, when a user logs into a system that belongs to specific group, that user can check out the resources for that group. But if the user does not belong to the group identified on the secured resource, the user cannot check out the resource.

To secure resources, open Library manager and highlight the resources you want to secure. Then right-click and choose the Secure Resource option.

After you highlight the resources you want to secure, right-click and choose this option.

Check Out
Read
Item History
Secure Resource
Copy and Rename
Expire
Item Descendants
Sample Print
Find
Library Grid Report
Export This Window to File
Grid Layout
Search Wizard

Choose the user ID to assign to the selected resources. Use the Release button to remove the security setting.

The Secure Library Resource window appears:

Choose the user ID you want to assign to the selected resources.

USING THE LDAP SECURITY MODEL

Documaker Studio works with LDAP (Lightweight Directory Access Protocol) to provide group-level security. Studio supports any LDAP-compliant Directory Information Tree, such as Active Directory.

When using LDAP security, Studio automatically queries the server for a list of groups to which the user belongs. Studio then looks up each of those group names in its USERINFO database.

For each group name that exists in the USERINFO database, Studio merges the security rights of that group into the current user. This way, you can belong to multiple groups and will end up with combined security options — so you get the most security rights possible.

Note Any group name returned that does not exist in the USERINFO database is ignored.

If no matching group for a given user is found in the USERINFO database, that user will not be allowed into the workspace. This differs from the standard user model where an unknown user is permitted access by copying the USER1 security rights, which are presumably set with the lowest possible settings. Using the LDAP model, however, unknown users are not allowed into the workspace.

For instance, suppose when using LDAP that JOE is a member of these groups:

- USERS
- FORMDESIGN
- ADMIN

Further suppose the following LDAP group *identities* were defined in the USERINFO database. Next to each name is listed some security attributes assigned.

Identity	Description
FORMDESIGN	Normal access to FOR, FAP, and other files, but not a library administrator, or system administrator.
ADMIN	A library administrator, but not a system administrator
SYSADMIN	A system administrator

When JOE enters the workspace, Studio queries his groups from LDAP and gets USERS, FORMDESIGN, and ADMIN. USERS does nothing for him since it is not defined in the USERINFO database. After finding FORMDESIGN and ADMIN, JOE is accorded the rights of a library administrator and normal file access to the rest of the system. He is not, however, recognized as a system administrator and that might have other restrictions outside of library management — depending on the other settings applied.

Suppose tomorrow, JOE's job changes and you assign him to the SYSADMIN group, but remove him from the FORMDESIGN group. Now, when JOE logs in, he is assigned as a SYSADMIN, which gives him the ability to do anything in the system with no restrictions.

But if you remove some groups from JOE and only leave him in USERS, then he would not be able to enter the workspace any longer because USERS is not a known user within Studio's USERINFO database.

Setting up LDAP

To enable LDAP support, set the LDAP_Enabled option to Yes:

s

<	Environment >			
	LDAP_	Enabled	=	Ye

Option	Description
LDAP_Enabled	Enter Yes to tell Studio to ignore its normal logon procedures and verify users via LDAP.

After you set the LDAP_Enabled option, set up the following options in the LDAP control group:

Option	Description
LDAP.HOST	(Optional) The host name or IP address of the LDAP server. The default is localhost.
LDAP.PORT	(Optional) The port in which the LDAP server is listening on. The default is 389 when SSL is not used, 636 otherwise (see the LDAP.USE.SSL option).
LDAP.URL	(Optional) The URL the LDAP server is listening on. If a value is specified for this option, it overrides the values specified for LDAP.HOST and LDAP.PORT.
LDAP.UID	(Optional) The user ID for logging onto the LDAP server. If this value is provided and LDAP.USER is not provided, the user ID is derived from this value and the value provided for LDAP.DOMAIN option. Here is an example: Administrator@Oracle.com
LDAP.USER	(optional) An explicit value to use for the user ID for the purpose of login into the LDAP server. Define this option to override the behavior used to determine the user ID when LDAP.UID and LDAP.DOMAIN are defined — see LDAP.DOMAIN.
LDAP.PWD	(Optional) The password used to login into the LDAP server.
LDAP.AUTHENTICATION. MODE	 (Optional) The method of authentication used to login into the LDAP server. You can choose from these options: (simple) which provides clear-text password authentication (none) which provides anonymous authentication. The default is (simple).
LDAP.TIMEOUT	(Optional) The amount of time (in milliseconds) after which a connection attempt or query should expire. The default is 10000 (10 seconds).
LDAP.SEARCH.BASE	(Optional) The base of the search in the DIT (Directory Information Tree). This is the starting point (node location) of a search in the DIT. If you omit this option, the system looks for the LDAP.DOMAIN option and builds a search base from it.

Option	Description
LDAP.DOMAIN	(Optional) This is the domain of the LDAP server. It is used to build the user ID for login into the LDAP server by appending the at symbol (@) plus the value of this option to the LDAP.UID value.
	The value of LDAP.DOMAIN is further parsed into domain components which are used as the default value for LDAP.SEARCH.BASE, if not already defined.
LDAP.OBJECTS	(Optional) A semicolon-delimited filter list of object classes to search in the LDAP server. If defined, it overrides the default filter list of object classes to search: group and groupOfNames.
LDAP.OBJECTS.SEARCH. STRING	(Optional) An explicit string value used as the filter of object classes to search. If defined, it overrides any value provided for LDAP.OBJECTS option.
	The value provided for this option must be specified in the appropriate LDAP protocol filter format. Also, if the search filter contains a question mark (?), the system replaces it with the user ID passed in as an argument to this function.
	Here are some examples:
	<pre>((objectClass=group)(objectClass=groupOfNam es)). Cn=?</pre>
LDAP.OBJECT. ATTRIBUTES	(Optional) The name of the attributes to retrieve for each object class which contain a value used to determine a match for USERID specified. The default values are <i>member</i> and <i>cn</i> (<i>cn</i> is always included).
LDAP.MATCH. ATTRIBUTES	(Optional) The name of one or more attributes contained within the value returned by a search for the LDAP.OBJECT.ATTRIBUTES option. This is the name of an attribute whose value is used to compare as opposed to the USERID specified to determine a match.
	For example, if LDAP.OBJECTS contains a value of groupOfUniqueNames and LDAP.OBJECT.ATTRIBUTES contains a value of uniqueMember and the value returned for the uniqueMember attribute of groupOfUniqueNames object class is:
	uid=admin,ou=people, dc=mycompany,dc=com
	and you want to match the USERID value with the value for uid, you would supply a value of uid for this option. The default is cn.
LDAP.SEARCH. SCOPE	(Optional) The scope of the search. You can choose from:(base) - search only the named context
	 (one) - search one level below the named context but not the named context
	 (sub) - search the entire subtree, including the named context. The default is (sub).
LDAP.DEREF.LINK	(Optional) Enter Yes or No to indicate whether or not to remove reference links to other nodes during a search. The default is No.
LDAP.VERSION	 (Optional) An integer value that indicates the LDAP protocol version to use. You can choose from: 2 - Version 2 3 - Version 3
	The default is three (3).

Option	Description
LDAP.SEARCH.LEVEL	 (Optional) An integer value that indicates the search level. You can choose from: 1 - User type objects 2 - Group type objects 3 - Any objects The default is one (1), user type objects.
LDAP.DN.IDENTIFIER	 (Optional) The value for this option is used these ways: Where LDAP.SEARCH.LEVEL is equal to 1 (USER) and there is no LDAP.OBJECTS.SEARCH.STRING value specified, the system generates a default search filter of the format identifier=UserID, where identifier is the value of this option and UserID is the user ID passed in to this function. Where LDAP.SEARCH.LEVEL is equal to 2 (GROUPS) and there is no LDAP.OBJECTS.SEARCH.STRING value specified, the system generates a default search filter from LDAP.OBJECTS and LDAP.OBJECT.ATTRIBUTES, where each attribute value in the search filter is an asterisk (*), which tells the system to match any value for the attributes specified. If the LDAP.RDNDS option is also provided, the asterisk (*) is replaced with identifer=UserID, followed by a comma and the LDAP.RDNS value to fine tune the search, where identifier is the value for this option and UserID is the user ID passed in to this function. Here is an example of a default search filter: (& (objectClass=groupOfNames) (member=*)) If a value of CN=Users, DC=PDDC, DC=DOCUCORP, DC=COM is specified for LDAP.RDNS and this option contains a value of <i>cn</i>, the search filter generated would look like this: (& (objectClass=groupOfNames) (member=CN=Admi nistrator, CN=Users, DC=PDDC, DC=DOCUCORP, DC=COM)) .
LDAP.RDNS	<pre>(Optional) This option is only used when LDAP.SEARCH.LEVEL is equal to 2 (GROUPS) and when LDAP.OBJECTS.SEARCH.STRING is not specified. In this situation, the system builds a default search filter from LDAP.OBJECTS and LDAP.OBJECT.ATTRIBUTES. Attribute values specified in the default search filter contain an asterisk (*), which tells the system to match any value for the attributes specified. When you specify this option, the system uses the value along with the value for LDAP.DN.IDENTIFIER to replace the asterisk and fine tune the search, thereby speeding the process. Here is an example of a default search filter: (& ((objectClass=groupOfNames) (member=*))) In a case were a value of CN=Users, DC=PDDC, DC=DOCUCORP, DC=COM is specified for this option and LDAP.DN.IDENTIFIER contains a value of CN, the search filter generated would look like this: (& ((objectClass=groupOfNames) (member=CN=Admi nistrator, CN=Users, DC=PDDC, DC=DOCUCORP, DC=COM)))</pre>

Option	Description		
LDAP.USE.SSL	(Optional) Enter Yes to enable encrypted communication through an SSL channel.		
	For SSL connections to work, the LDAP server must be configured for SSL with a certificate from a trusted certification authority.		
	This configuration is vendor specific — please consult your vendor documentation.		
LDAP.DEBUG	(Optional) Enter Yes to log debugging information to a trace file.		

You can specify the LDAP options in a properties file named openIdap.msg or in the LDAP control group in the INI file for the configuration being used. If you have defined these options in both, the options defined in the LDAP control group override the ones defined in the properties file.

Here is an example of a properties file:

```
ldap.host=10.1.10.101
ldap.port=389
ldap.timeout=10000
ldap.uid=jroberts
ldap.pwd=ElCamino
ldap.authentication.mode=simple
ldap.domain=PDDC.pd.com
ldap.objects.search.string=cn=?
ldap.object.attributes=memberOf
ldap.match.attributes=cn*
ldap.debug=yes
ldap.dn.identifier=cn
```

In this example, the ldap.objects.search.string is used to query an object in Active directory that corresponds to the user ID supplied by Documaker Studio. The question mark (?) is replaced at run time by the user ID supplied. Once the object is found, all values for the memberOf attribute are retrieved and returned as a list of the groups to which the user belongs.

Keep in mind:

- The ldap.uid or ldap.user and ldap.pwd options should correspond to an account that has permission to connect to the Active Directory and to query the objects in the Active Directory Tree. This account could be the same as that of the user ID that will be queried for group membership. If this is the case, that account must have access rights to the Active Directory and permission to query its own object.
- If the same Studio workstation is used by more than one person, the ldap.uid or ldap.user account should be one that has permission to query all objects corresponding to all users who will use Studio on that workstation. This is also true for other LDAP servers besides Active Directory, which do not support the memberOf attribute. In this situation, use the ldap.user option instead of ldap.uid and the account used must have permission to query all the objects that define group information (see the OpenLDAP example).

When using LDAP, Studio does not keep records of individual users in the user database. Instead, you must store specific group identities in the user database. Studio queries LDAP for a list of groups the user belongs too. It then looks up each group name in the user database.

If the group name returned does not exist in the database, Studio does nothing for the user. If the group name does exist in the database, then the security rights from that group (user) are merged into the current user. If a user belongs to multiple groups defined in the database, the user ends up with combined security options.

On the other hand, if the user does not have any groups in common with the user database, the user is not allowed to log onto the system.

Unlike the normal (non-LDAP) user situation, Studio does not support a guest or default log on when LDAP is enabled.

Here is an example of how to search a user object in an Active Directory server schema that supports the memberOf attribute:

Here is the Distinguished Name of the user *Administrator* in an Active Directory Schema:

```
CN=Administrator, CN=Users, DC=PDDC, DC=pd, DC=com
```

Here are the INI options:

<	LDAP >		
	ldap.host	=	localhost
	ldap.port	=	389
	ldap.timeout	=	10000
	ldap.uid	=	userID@PDDC.pd.com
	ldap.pwd	=	123456xxx
	ldap.objects.search.string	=	cn=?
	ldap.authentication.mode	=	simple
	ldap.domain	=	PDDC.pd.com
	ldap.dn.identifier	=	cn
	ldap.debug	=	Yes

In this example a search is conducted for a user named *Administrator* and all the memberOf attribute values are retrieved for it, composing a list of the groups *Administrator* belongs to.

Here is an example of how to search group objects in an OpenLDAP server schema that does not support the memberOf attribute:

Here is the schema for the OpenLDAP server:

```
dn: dc=mycompany, dc=com
objectClass: top
objectClass: dcObject
objectClass: domain
dc: mycompany
dn: ou=roles,dc=mycompany,dc=com
objectClass: top
objectClass: organizationalUnit
ou: roles
dn: ou=people,dc=mycompany,dc=com
objectClass: top
objectClass: organizationalUnit
ou: people
dn: cn=Test Users, ou=roles, dc=mycompany, dc=com
objectClass: groupOfUniqueNames
cn: Test Users
uniqueMember: uid=sspecial,ou=people,dc=mycompany,dc=com
uniqueMember: uid=jbloggs,ou=people,dc=mycompany,dc=com
dn: cn=Special Users,ou=roles,dc=mycompany,dc=com
```

```
objectClass: groupOfUniqueNames
cn: Special Users
uniqueMember: uid=sspecial,ou=people,dc=mycompany,dc=com
dn: cn=Admin Users,ou=roles,dc=mycompany,dc=com
objectClass: groupOfUniqueNames
cn: Admin Users
uniqueMember: uid=admin,ou=people,dc=mycompany,dc=com
dn: uid=admin,ou=people,dc=mycompany,dc=com
objectClass: person
objectClass: inetOrgPerson
cn: State App
displayName: App Admin
givenName: App
mail: admin@fake.org
sn: Admin
uid: admin
userPassword: adminpassword
dn: uid=jbloggs,ou=people,dc=mycompany,dc=com
objectClass: person
objectClass: inetOrgPerson
cn: Joe Bloggs
displayName: Joe Bloggs
givenName: Joe
mail: jbloggs@fake.org
sn: Bloggs
uid: jbloggs
userPassword: password
dn: uid=sspecial,ou=people,dc=mycompany,dc=com
objectClass: person
objectClass: inetOrgPerson
cn: Super Special
displayName: Super Special
givenName: Super
mail: sspecial@fake.org
sn: Special
uid: sspecial
userPassword: password
Here are the INI options:
< LDAP >
   ldap.host
                           = localhost
   ldap.port
                           = 389
   ldap.timeout
                          = 5000
   ldap.user
                         = uid=admin,ou=people,dc=mycompany,dc=com
   ldap.pwd
                          = adminpassword
   ldap.authentication.mode = simple
                 = groupOfUniqueNames
ase = ou=roles,dc=mycompany,dc=com
   ldap.objects
   ldap.search.base
   ldap.object.attributes = uniqueMember
   ldap.match.attributes = uid
```

= sub

= 2

= 3 = Yes

= admin

ldap.search.scope
ldap.search.level

ldap.version

ldap.debug UserID

ldap.dereference.link = Yes

In this example a search is conducted for all objects of type *groupOfUniqueNames* which contain attributes of name *uniqueMember*. All attribute values returned are then filtered matching the uid *Distinguished Name* part to the user ID supplied in the search. For example if the user ID searched was *admin*, then the list of groups returned would be *Admin Users*.

Using Documanage

If you are using DMILIB and Documanage, you must set up these INI options in the DMILIB:LDAP control group. Also make sure Documanage is set up to support LDAP authentication.

```
< DMILIB:LDAP >
Server = 10.1.10.102
Domain = bulldog1jr
Protocol = ncacn_ip_tcp
Endpoint = 4000
UserID = demo
Password = demo
Debug = Yes
```

Here are descriptions of these options:

Option	Description
Server	The IP address or the DNS name of the Documanage server.
Domain	The domain of the Documanage server.
Protocol	The RPC protocol. The default is ncacn_ip_tcp.
Endpoint	The RPC end point. The default is 4000.
UserID	The user ID needed to create a profile and session in Documanage.
Password	The password needed to create a profile and session in Documanage.
Debug	Enter Yes to enable placing debug information into the trace log in the current working directory. The default is No.

If you set the following option to Yes, Studio tries to retrieve group information from Documanage. If Studio cannot retrieve this information from Documanage, it tries to retrieve the group information directly from LDAP.

< Environment > LDAP Enabled =

Note Use the LDAP.HOST and either the LDAP.UID or LDAP.USER options in the LDAP control group as the default fall back connection information if DMILIB is not present. The LDAP.UID option is normally used with LDAP.DOMAIN to talk to the active directory. The LDAP.USER option is normally used to talk to other LDAP servers

Chapter 3

Working with Application Definition Files

Choose Manage, Application, Definition to maintain your lines of business. For example, suppose you are creating forms for an insurance company which underwrites automobile and homeowners' insurance. Each different type of insurance could be considered a separate line of business. Make sure you have the needed rights to perform the function, otherwise, contact your System Administrator to update.

This chapter discusses the following topics:

- Overview on page 131
- Defining an Application Definition on page 132
- Using Spot Colors on page 134
- Defining Recipients on page 151
- Defining Categories on page 154
- *Defining Transaction Types* on page 162
- Using Regional Date Processing on page 165
- Generating an Application Definition Report on page 174
- Example: Add the BDF information for the Medical History form on page 177

OVERVIEW

The application definition (BDF) file defines the key combinations used to locate a specific form set. These key combinations are comprised of a Key1 and Key2 (sometimes referred to as Unit1 and Unit2; or Group1 and Group2). In the insurance world, these keys are typically called: *company* and *line of business* (LOB).

Other information stored in the BDF file includes the following:

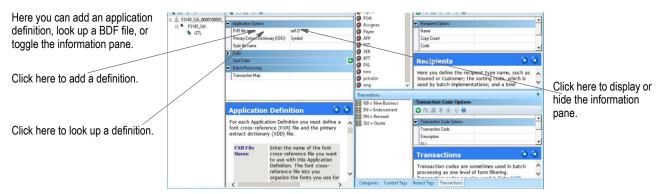
- List of recipients
- Form List Options
- Form categories (if used)
- Transaction codes (if used)
- Primary extract dictionary (XDD) file (if used)
- Default font cross-reference (FXR) file
- Default style (STY) file

Note You should always let Studio create and maintain BDF files. *Do not* manually edit this file.

DEFINING AN APPLICATION DEFINITION

To define a line of business for a set of resources, you first check out the BDF file and then make the necessary entries to define a new line of business.

Once you select the one you want, the Application Definition view appears. Notice the toolbar above the application options. You will see similar toolbars throughout Studio.



The toolbar provides these options:

То	Click
Add an item.	B
Look up an item. When you click this icon, the Open File window appears. You can choose the item you want from the list or browse to another location.	C1
Display or hide the information pane.	•
Display Help.	0

For each application definition, you must define a font cross-reference (FXR) file and the primary extract dictionary (XDD) file. You can also associate a style sheet (STY) with a line of business so other users will have access to those styles when they create sections.

You can also define default colors for fields and entry objects that will be used in the workspace. These will appear when working on objects in the Section manager.

Field	Description
FXR File Name	Enter the name of the font cross-reference file you want to use with this business unit definition. The font cross-reference file lets you organize the fonts you use for display and printing. The FXR provides all necessary font information. It does not contain the actual font files; rather, it contains information about the font attributes. Font attribute information includes formatting styles (bold, italic, and so on), point size (10 point, 14 point, and so on), and font stroke weight (heavy, light, and so on). When you click in this field, a browse icon appears which you can use to browse to the FXR file you want to select. The FXR file you name in the BDF file overrides the INI option for the FXR file.
Primary Extract Dictionary (XDD)	Enter the name of the XDD file you want to use with this business unit definition. The XDD file contains information on how to transfer the data from external files (sometimes called extract files) into fields defined within your documents. If your setup is not a batch implementation, you would not normally need an XDD file. When you click in this field, a browse icon appears which you can use to browse to the XDD file you want to select.
Style File Name	Enter the name of the style (STY) file you want to associate with this line of business. Style files let you specify default settings for text labels, text areas, boxes, shade objects, vectors, lines, bar codes, graphics, signatures, bookmarks, notes, indexes, and charts and associate those settings with named styles. Click the Browse icon to search for the file you want.
Color	Users with rights to change the application definition can set default colors for both Entry and Field objects. Objects managed at the application level can be assigned any color that you want to see globally. As you create objects in the Section manager, you can accept the default color or define a color. For objects that are not defined at the application level, the default color will be black. When a section is displayed within Studio or for end-user entry, items that use the default color will reflect the global setting.
Spot Color	If you need to use spot colors- for example, a $\ensuremath{PANTONE}\xspace$ color- in your output, you can define those colors here.
Transaction Map	Select the XDD record that defines the layout for transaction information.

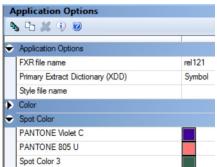
USING SPOT COLORS

Studio lets you define named spot colors, including PANTONE® spot colors, in your Application Definition (BDF) file and then use those colors in the objects you place on your forms. You can use spot colors to ensure consistent color usage.

Note Only the PDF driver supports Pantone colors directly. The display and all other print drivers use the RGB values of the named spot color.

Keep in mind...

• The spot colors listed on the BDF file appear in the order in which you defined them.



• The spot colors that appear on the color selection list when you assign a color to an object are listed after the standard system colors, in the order in which you defined them.

2	Color Selection		×
Color Selection			ОК
۰ 🕼			Cancel
Color Selection	Default		Cancer
Print in color	Default		Help
Red	Black		
Green	Blue Cyan		
Blue	Dark blue		
(0.0.0)	Dark cyan Dark gray		
(0.0.0)	Dark green		
	Dark magenta Dark red		
	Dark yellow		
	Green Light gray	- 1	
	Magenta		
	Red White		
	Yellow		
	PANTONE Violet C PANTONE 805 U		
•	Spot Color 3		
à	Color Selection		>
Color Selection			ОК
۹) 🔞			Cancel
Color Selection	PANTONE Violet C		
Print in color	Print in color		Help
Red	68		
Green	0		
Blue	153		
(68,0,153)			

- You cannot assign spot colors via Graphics manager. You can, however, assign a spot color to a graphic when you place it in a section. This tells the applicable printer driver to print that object with the indicated color.
- You can assign a spot color to a single-color (monochrome) graphic when you place add it to a section. You cannot, however, assign the spot color directly to that graphic using Studio's Graphics manager.
- You can assign spot colors in a style sheet (STY) file. This helps make sure all forms designers are using the correct color definitions.
- PDF files generated by Documaker's PDF Print Driver include the name of the spot color. For other types of print files, Documaker print drivers include the RGB values.

DEFINING A SPOT COLOR

To use spot colors on the forms you will create, first define those colors in the BDF file. Follow these steps:

- 1. Open the BDF file in which you want to define the spot colors.
- 2. On the Application Options panel, Click the + in the Spot Color setting.

9	h 🕀 🗶 🤋 🥥	
÷	Application Options	
Γ	FXR file name	rel121.fxr
	Primary Extract Diction	Symbol
	Style file name	ACCIDENT
۶	Color	
	Spot Color	Ð

The Select Spot Colors window appears:

🌮 Select Sp	oot Colors		×
Color ID	2		
Catalog	PANTONE+ Solid Coated		
Name	PANTONE Black C		
Filter Names			
PANTONE CL	ANTONE® Colors displayed herein may not atch PANTONE-identified standards. Consult irrent PANTONE Color Publications for ccurate color.		
_	and other Pantone trademarks are the property .C. © Pantone LLC, 2011	ОК	Cancel

3. Define the spot color you want using these fields.

Field	Description
Color ID	Use this field to assign a numeric ID to this spot color. The system will offer the next available number.
Catalog	 Select the font catalog you want to choose from. You have these choices: PANTONE+ Solid Coated PANTONE+ Solid Uncoated Manually Define For more information on manually defining a spot color, <i>see "Manually Defining a Spot Color" on page 136.</i>
Name	Select the spot color you want. The colors on the list vary, depending on your selection in the Catalog field. The default is black.
Filter Names	When selecting the name of the spot color you want, you can use this field to filter the list. For instance, if you enter <i>red</i> in this field, the system will show you the PANTONE red spot colors you can choose from. You can also use wildcards, but note that you cannot place wildcards between two strings, such as r^*d .

4. Click **OK** once you define the spot color.

.

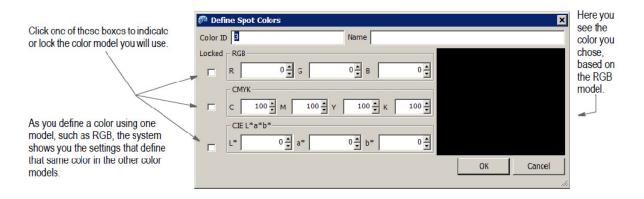
Here is an example of the Application Options pane with two spot colors defined:

•	Application Options	
	FXR file name	rel121.fxr
	Primary Extract Diction	Symbol
	Style file name	ACCIDENT
⊁	Color	
÷	Spot Color	0
	PANTONE 485 C	
	PANTONE Black C	

MANUALLY DEFINING A SPOT COLOR

To define a spot color that is not on the PANTONE+ Solid Coated or PANTONE+ Solid Uncoated lists, follow these steps:

1. Select Manually Define in the Catalog field on the Select Spot Colors window. The Define Spot Colors window appears:



2. Define the spot color you want using these fields.

Field	Description
Color ID	Use this field to assign a numeric ID to this spot color. The system will offer the next available number. The system uses this number to handle spot colors, so the name you assign does not have to be unique.
Name	Enter a name for your spot color.
Locked	The Define Spot Color window lets you see the color model you are entering converted into the other color models, while also letting you override the conversion and force the system to accept the values you enter. So when you type into one of the color models, the other models are automatically updated unless the Locked checkbox is checked. Any time you update a color model manually, the system checks the Locked checkbox for you so that model is not updated when you type in another model. If you have manually entered something in one of the color models but want it to be updated when you enter something in another model, simply uncheck the appropriate Locked checkbox.
RGB	 This field lets you define a spot color using the RGB (Red,Green,Blue) color model. With this color model you define the amount of red, green, and blue light to add together to produce the color you want. For red, green, and blue enter a number between 0 (zero) and 255. For instance, 0,0,0 is black and 255, 255, 255 is white. Typical RGB output devices include TV sets, cell phone displays, and computer monitors.
СМҮК	This field lets you define a spot color using the CMYK color model. This model is also known as <i>process color</i> or <i>four color</i>) and is used in color printing. CMYK refers to the four inks typically used in color printing: cyan, magenta, yellow, and key (black). For cyan, magenta, yellow, and key (black), enter a number between 0 (zero) and 100.

Field	Description
CIE L*a*b*	This field lets you define a spot color using the CIE (Commission Internationale d'Eclairage) L*a*b* color model. This model is sometimes known as the CIE 1976 color model, which reflects its year of origin. For L, enter a number between 0 (zero) and 100.00. For a and b, enter a number between -327.68 to 327.67.

RGB is an additive color model in which white is the result of combining all of the primary colored lights, while black is represented by the absence of light.

The CMYK model takes the opposite approach and is considered a subtractive color model. In the CMYK model, white is the natural color of the paper or other background and black is the result of a full combination of the colored inks.

The CIE L*a*b color model plots visible colors on two axes. Each axis in the L*a*b* color space also represents an easily recognizable property of color, such as the red green and blue-yellow shifts. This model is useful when editing digital images.

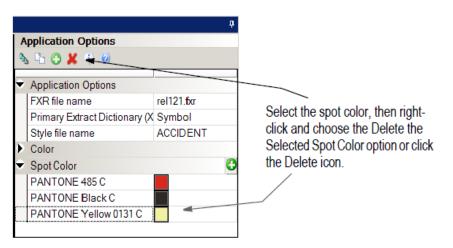
3. Click **OK** once you define the spot color to add it to your BDF file.

Editing a Spot Color

To edit a spot color definition, simply delete it and redefine it.

Deleting a Spot Color

To delete a spot color you have defined, first click on the spot color you want to delete.



Then right-click and choose Delete the Selected Spot Color. You can also click the Delete icon.

There are several reasons spot colors with specific RGB and/or CMYK colors may be desirable; i.e. corporate standards, legal standards, product branding, etc.

You may have given

- Only RGB values
- Only CMYK values
- Both RGB and CMYK values

When you just have one color scheme, you can let Documaker determine the other color values.

If you have both RGB and CMYK values, entering one value (e.g. RGB) may not produce the exact value you want for the other color scheme (e.g. CMYK).

Documaker lets you enter both the RGB and CMYK values to be used when you create a spot color.

The following is an example of spot color for use in product branding.

Oracle Red uses a CMYK value of C:0, M:100, Y:100, K:0 and a RGB value of R:255 G:0 B:0

Oracle Gray uses a CMYK value of C:0, M:0, Y:0, K:50 and a RGB value of R:127 G:127 B:127

- 1. Manually define a new spot color
- Set the RGB values to produce Red (R:0 G:255 B:0) Documaker Studio will set the CMYK values to C:0, M:100, Y:100, K:0 You can make changes to the CMYK values if desired

矝 Def	ine Spot Colors	×
Color ID	1 Name Spot Color 1	
Locked	RGB	
$\overline{\checkmark}$	R 255 x G 0 x B 0 x	
	CMYK	
	C 0 • M 100 • Y 100 • K 0 •	
	CIE L*a*b*	
	L* 53.41 · a* 82.79 · b* 67.48 ·	
	, , , , , ,	OK Cancel

- 3. Press OK to close the spot color dialog
- 4. Check in the BDF back into the library
- 5. Use the new spot color in a new object

The object using that spot color will print as Red when using RGB color commands (all print output except AFP) and Red when using CMYK color commands (AFP color only with the appropriate INI settings).

DEFINING FORM LISTS

If you click a specific LOB (line of business), the view changes to show you the appropriate fields for defining a form list for that line of business. These are also known as *group files*.

STRAININGCOMPANY v1.2 1/1/1980*			
Application Definition			Ф.
TRAININGCOMPANY	F	orm List Options	
S 🗶 🕆 🕸	٩	እ 🖊 🕀 🕆 🗅 🗡 🕄 🔘 👘	
TRAININGCOMPANY_0000100002_1 Training Company		Form List Options	
		Unit 1	Training Company
		Unit 2	
		Unit 3	
		File Name	
		Exclude from user selection	
		Also Known As	0

CREATE GROUP

STRAININGCOMPANY	/1.2 1	/1/1980				
Application Definition						ф.
TRAININGCOMPANY			Application	Options		
∿ X ☆ ₹			🗞 🗅 🗶	۹) 🔞		
	e 🛪 🖌	Insert Delete Add Irigger Copy and Rer Edit File View File Expand All	name File	ptions 3 2t Dictionary (XDD) e	rel121.fxr Symbol	õ
		Co <u>l</u> lapse All <u>F</u> ind				

- 1. Right click while in the Application Definition tree
- 2. Choose the Insert option to add Unit 1
- 3. When you select Insert after selecting\highlighting the Application Definition file in the Application Definition tree, <groupname> appears in the Application Definition tree under the Application Definition file.
- 4. <groupname> is also assigned as the value for Unit 1 in the Form List Options panel.

Application Definition			ą.	
TRAININGCOMPANY	F	orm List Options		
No 📕 🕆 🐺	9	s 🖊 🕀 🕆 🖧 🖌 🕄 🥘 🛛		
TRAININGCOMPANY_0000100002_198001 Coroupname>	Form List Options			
		Unit 1	<groupname></groupname>	
		Unit 2		
		Unit 3		
		File Name		
		Exclude from user selection		
		Also Known As	0	

- 5. Click on <groupname> in the Unit 1 field in the Form List Options
- 6. Enter a value for the Unit 1
- 7. You don't have to specify the GRPLIB directory when saving. This be the default when working directly on a workspace. However, if you've joined a workspace, each user has their own directory location that's created when they join the workspace.
- 8. Press enter or tab off that field to update both the Application Definition tree and Form List Options dialog.
- 9. Right click on the Unit 1 value in the Application Definition tree and select Insert
- 10. <groupname> appears in the Application Definition tree under Unit 1
- 11. <groupname> is also assigned as the value for Unit 2 in the Form list Options panel

Application Definition			ф.
TRAININGCOMPANY	Form List Options		
N 🗶 🕆 🕸	N 💥 🕸 🕆 🗅 🗲 🕄 🥘		
TRAININGCOMPANY_0000100002 TrainingCompany <s groupname=""></s>	Form List Options		
	Unit 1	TrainingCompany	
	Unit 2	<groupname></groupname>	
	Unit 3		
	File Name	Training Company	-0
	Extract Dictionary Override		
	Exclude from user selection		
	Mobile		
	Omit		
	Context		
	Global Context Tag		
	Also Known As		0

- 12. Enter the Unit 2 value.
- 13. Press enter or tab off that field to update both the Application Definition tree and Form List Options dialog.
- 14. The File Name in the Form List Options becomes Unit1_Unit2

Application Definition					
TRAININGCOMPANY	Form List Options				
 ▶ ▲ ▲ ▲ TRAININGCOMPANY_0000100002 ■ TrainingCompany 	Image: Second				
	Unit 2	Automobile			
	Unit 3				
	File Name	TrainingCompany_Automobile			
	Extract Dictionary Override				
	Exclude from user selection				
	👻 Mobile				
	Omit				
	Context				
	Global Context Tag				
	Also Known As	Θ			

- 15. Right click on Unit 2 item in the Application Definition tree to add Unit 3
- 16. Enter the Unit 3 value.
- 17. Press enter or tab off that field to update both the Application Definition tree and Form List Options dialog.
- 18. The File Name in the Form List Options becomes Unit1_Unit2_Unit3

Application Definition				ą		
TRAININGCOMPANY	F	orm List Options				
S 📕 🕆 🖖		∿ ¥ ⊕ ☆ ℃ ≠ ④ Ø				
TRAININGCOMPANY_0000100002 TrainingCompany	Ŷ	➡ Form List Options				
Automobile	Γ	Unit 1	TrainingCompany			
€ CA		Unit 2	Automobile			
		Unit 3	CA			
		File Name	TrainingCompany_Automobile_CA	-0		
		Extract Dictionary Override				
		Exclude from user selection				
	Ŷ	Mobile				
	Γ	Omit				
		Context				
		Global Context Tag				
		Also Known As		0		

19. Mobile

- Omit Select this check box, if you do not want the Form List to be included in the Mobile Output
- Context Select this option to pick from a list of available tags or edit/add a new one on the particular object.
- Global Context Tag A global context tag can be defined for particular lines of business or Key1/Key2 combinations in the Application Definition (BDF).

When a global context tag is defined, all objects will first look for the associated snippet with the global tag appended to the name, just as if the context tag had been defined on each object.

For example, if a global context tag "claim" is assigned at the transaction level, then a search for a field's snippet will first look for "field_claim.xml". This occurs even though the field did not specify a mobile context.

Note Snippet supports both.HTML as well as.XML formats. However,.XML is the primary format used here.

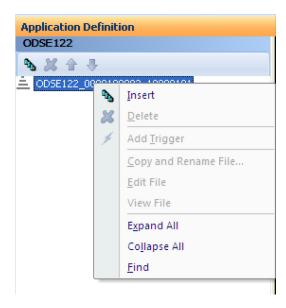
This global context tag feature is to be used in situations where it is desired to generate a completely different and customized output for given transactions.

- **Note** This option requires Documaker Mobile. If you have not purchased and installed Documaker Mobile the required mobile options will be disabled. To purchase Documaker Mobile, visit My Oracle Support website or contact your Oracle Sales representative.
 - 20. Check the form list file into the library. This allows the form list file to be available to other users of the workspace.

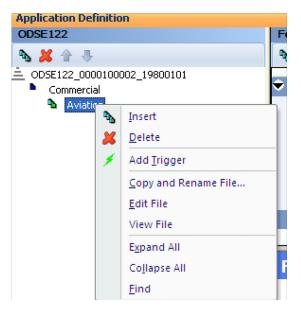
Right Click Menu Options

То	Select
Add a Unit	Insert
Assign a Trigger	Trigger
Create a copy of your Form List file and give it a new name	Copy and Rename
Edit your Form List file Note: if the file does not exist, you will be asked if you want to create it	Edit File
View your Form List File	View File
Expand all items in the tree	Expand All
Collapse all items in the tree	Collapse All
Search for items in the tree	Find

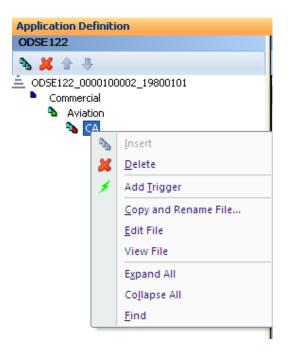
You could also choose to pick it from the Ribbon or menu – depending upon the mode. The following menu appears when you right click on the BDF or Unit 1 in the Application Definition tree:



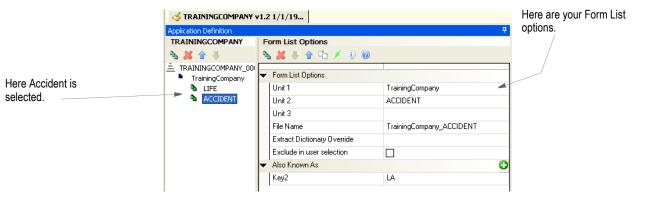
The following menu appears when you right click on Unit 2 in the Application Definition tree:



The following menu appears when you right click on Unit 3 in the Application Definition tree:



The name of the group file is stored in the BDF. Every Key1/Key2 combination also produces a file with a GRP extension in the file system that contains the settings for the form list. Form lists let you build form level triggers later. Here is an example:



The toolbar provides these options:

То	Click
Add an item.	3
Delete an item. Please note there is no confirmation message. As soon as you click this icon, the item is deleted.	×
Change the order of an item. Press the up arrow to move the item higher in the tree. Press the down arrow to move the item lower in the tree. The order of the items defined within the BDF file is the same order used by the entry programs, such as Documaker Desktop and iDocumaker. For batch processing, the order of the items at the BDF level is not usually important, but you may experience a minor improvement in performance if the items used most often appear at the top of the tree.	4

То	Click
Look up an item. When you click this icon, the Open File window appears. You can choose the item you want from the list or browse to another location.	C ₁
Display or hide the information pane.	•
Add a trigger.	
Insert a manual trigger.	1
Display Help.	0

ADDING A FORM LIST

To add a form list, select the company and then click the Add icon.

Application Definition						
TRAININGCOMPANY	F	Form List Options				
🇞 💢 👚 🐥	٩	s 🗶 🚸 👚 🖆 🗲 🕘 🥘 🛛				
TRAININGCOMPANY_00 TrainingCompany	•	Form List Options				
LIFE ACCIDENT	L	Unit 1 Unit 2	TrainingCompany			
<pre>Accident Accident Acciden</pre>		Unit 3	<groupname></groupname>			
	L	File Name	TrainingCompany_			
	L	Extract Dictionary Override				
	L.	Exclude in user selection				
		Also Known As				

Then enter the appropriate information in these fields:

Field	Description
Company	Here you enter the Key1 value you want to use. Studio defaults this based on information you have already entered when you add a line of business.
LOB	Here you enter the Key2 value you want to use. Studio defaults this based on name you entered when you added the line of business.
File Name	Here you define the library file name that contains the available forms list for this Company/ LOB combination. This file is referred to as a Forms List (GRP) file. You can enter a name or select the GRP file from the library by clicking on the associated button. Remember that certain platforms can have file naming requirements that are not automatically enforced by Studio. You must make sure the file names you assign are compatible with the platform you will eventually process on.
Extract Dictionary Override	Enter the name of the XDD file you want to use for this line of business instead of the primary XDD file defined at the BDF or root level. Leave this field blank if you want to use the primary XDD file. You can browse through the library to select an XDD file. During batch processing, when the system maps fields it check the associated group level for a specifically defined XDD file. If omitted, the system looks in the BDF file for the name of the primary XDD file. If no primary XDD file is defined, the system uses the value assigned to this INI option: < MasterResource > DictionaryFile = Note: Triggers at the Application BDF level (i.e. Key1/Key2 triggering) must use the main Extract Dictionary for any symbols referenced by those triggers. Loading the subordinate (override) dictionary before determining whether a key group should be included in the transaction has potential impact on performance when you have many such groupings. In addition, since the same symbol name may be defined in multiple dictionary files, the possibility also exists for a false match that would result in the inclusion of the key grouping unintentionally. The override dictionary is only loaded after the group has been validated as a part of the transaction. This override dictionary then provide the symbols required for the subordinate form triggering and field mappings within that group.

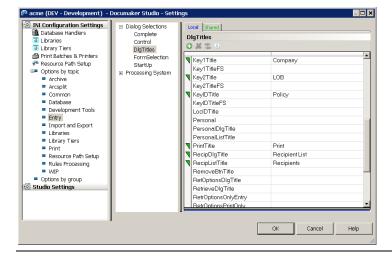
Field	Description
Exclude from User Selection	Check this field to exclude this line of business and the forms associated with it from Documaker Desktop's Form Selection window. This can reduce the clutter of having too many forms to choose from and it can lessen the chance users will forget to include some if otherwise triggered.
	For example, you might want to exclude a cover letter, list of customer instructions, or addresses from the Forms Selection window yet still include them in the form set by triggering them.
	A form excluded from the Forms Selection window can still be included in the form set for users to see and work with by, for example, marking the form Pre-selected in Studio's Form List area.
	Note that if you exclude from user selection all the Key2 children under a parent Key1, the Key1 is also excluded from the Forms Selection window.
Also Known As	Click in this field to set up the automatic mapping of group alias names into the Key1Table and Key2Table control groups.
	These groups are used to map a short name in your extract file to a long name in your BDF file. Studio lets you identify aliases that, when encountered in a batch operation, should map to the standard group name. When the system starts a batch run, it loads the BDF file and automatically assigns the defined alias names for each group to the appropriate INI option.

Note You can use the DIgTitles control group to change the text that appears on the various windows. This includes field labels, window titles, column headings and button captions. You can use these options to change the text for the Key1 and Key2 fields:

< DlgTitles > Key1Title = Company Key2Title = LOB

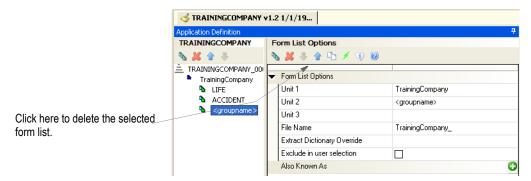
If you leave these options blank, the text will be blank. If you omit these options, the system uses its defaults.

To change these options, choose Manage, System, Settings. Then, under Options by Topic, choose Entry and then Dialog Selections, as shown here:



DELETING A FORM LIST

If you need to delete a form list, select the form list you want to delete and click the Delete Form List icon, as shown here:



Studio deletes the form list immediately.

DEFINING RECIPIENTS

Use the Recipient Options panel to set up recipients for this application definition. Recipients are those who will get copies of the various forms in the form set. Defining a recipient includes setting up the following:

- A recipient type name, such as *Insured* or *Broker*.
- A sorting code. This code is used in batch implementations. Documaker's GenData program uses the code to know which recipient to queue at print time.
- A brief description. This description appears in any Send Copy To fields defined in your form when you print that form for that recipient. For instance, this is where the text *Insured's Copy* comes from when you print forms. This description is used by both entry systems, like Documaker Desktop or iDocumaker, and the GenPrint program.

ipients						
GENT	Recipient Options					
IOME OFFICE						
S INSURED						
	Name					
	Copy Count	Not eligible				
	Code					
	Description					
	Address Map					
	Redact Tag					
	GENT	AGENT HOME OFFICE NSURED Recipient Options ♥ Recipient Options Name Copy Count Code Description Address Map				

The toolbar provides these options:

То	Click
Add an item.	3
Clear the information for an item. Choose this option to delete all of the information entered in the various fields used to define this item.	2
Delete an item. Please note there is no confirmation message. As soon as you click this icon, the item is deleted.	×
Change the order of an item. Press the up arrow to move the item higher in the tree. Press the down arrow to move the item lower in the tree. The order of the items defined within the BDF file is the same order used by the entry programs.	4
For batch processing, the order of the groups at the BDF level is not usually important, but you may experience a minor improvement in performance if the items used most often appear at the top of the tree.	
Display or hide the information pane.	•
Display Help.	۷

Note When a batch processing cycle starts, the list of recipients defined in the Business Definition file is inserted into the Recip_Names control group. This control group is used by several of the Documaker programs.

ADDING A RECIPIENT

If you need to add a recipient, select the Recipients pane and click the Add Recipient icon, as shown here:

	Recipients	Recipient Options	
	-		
	🙀 BROKER		
	🧟 <new recipient="">/</new>	 Recipient Options 	
		Name	<new recipient=""></new>
		Code	
ere to add a recipient.		Description	

Then enter the appropriate information in these fields:

Field	Description
Name	Enter the name of this recipient you want to add. For example, you might enter Home Office Insured, or Broker.
Code	Use this field to assign a code to this recipient. This code is used by the GenData program.
Description	Enter a description of this recipient. For instance, you could enter <i>Insured's Copy</i> or <i>Broker's Copy</i> .

DELETING A RECIPIENT

If you need to delete a recipient, select the recipient you want to delete and click the Delete Recipient icon, as shown here:

	Re	cipients			Ф
	0 0	ORIGINAL HOMEOFF		ecipient Options	
	0 0	BROKER <new recipient=""></new>	F	Recipient Options	
	_	show rocipione	\mathbf{Z}	Name	<new recipient=""></new>
			L	Code	
ient.	/		F	Description	

Click here to delete a recipient.

Click

Studio deletes the recipient immediately.

DEFINING CATEGORIES

Categories can help you organize large sets of forms by letting you associate similar forms to make the list more manageable. For instance, you could set up geographical or market-based categories that indicate where certain forms are used.

Setting up categories is optional. If you define them, the form categories appear when you work with group (GRP) files.

Note Categories are not the same as the higher level key groups (Key1 and Key2) and are not used during form triggering or selection.

Auto Homeowners Life	Category Options				
E LIC	Category Options				
	Name	Homeowners			
	Description	Homeowners			

Click the Categories tab to work with categories.

The toolbar provides these options:

То	Click
Add an item.	B
Clear the information for an item. Choose this option to delete all of the information entered in the various fields used to define this item.	শ্যি
Delete an item. Please note there is no confirmation message. As soon as you click this icon, the item is deleted.	×
Change the order of an item. Press the up arrow to move the item higher in the tree. Press the down arrow to move the item lower in the tree. The order of the items defined within the BDF file is the same order used when a user selects forms in via the Entry program.	4
For batch processing, the order of the groups at the BDF level is not usually important, but you may experience a minor improvement in performance if the items used most often appear at the top of the tree.	
Display or hide the information pane.	4
Display Help.	0

ADDING A CATEGORY

If you need to add a category, click the Add Category icon, as shown here:

💼 GA	Category Options	
👜 MS	🔁 🕲 👗 🌷 😭 🕘	
🗊 <new category=""></new>	1	
/	 Category Options 	
	Name	<new category=""></new>
	Description	

Click here to add a category.

Then enter the appropriate information in these fields:

Field	Description
Name	Enter the name of the category you want to add.
Description	Enter a description of the category you are adding.

DELETING A CATEGORY

If you need to delete a category, select the category you want to delete and click the Delete Category icon, as shown here:

	Categories		Ф
	💼 GA	Category Options	
	💼 MS	🚱 🕲 🖊 🌷 😭 🌖	
	💼 AL		
		 Category Options 	
		Name	AL
		Description	Alabama
ategory.			

Click here to delete a category.

Studio deletes the category immediately.

DEFINING CONTEXT TAGS

In support of mobile output, context tags allow objects in Documaker output to link to a specific presentation, layout and interactivity as developed by a mobile author. Context tags will be assigned to the new property (Context) introduced under Mobile Grouping. This property is applicable to forms, sections, and other Documaker resource objects.

- Uppercase letters are lowercased.
- Name field is restricted to these characters

!#\$%-1234567890@_abcdefghijklmnopqrstuvwxyz~

Note The Context tag field cannot be of more than 64 characters for fields and 62 characters for all other objects.

This Context Tag list simply defines those tags that are selected and used by Document Author while creating content. It is possible to assign security restrictions to users which will force selection from this list or to allow certain users to use a custom tag not defined here. See Rights in Managing Users.

Click the Context Tag tab to work with context tags.

Context Tags		
	Context Options	
	0 12 24 4 9 9	
	Context Options	
	Name	
	Description	
	Context Tags 🛛 💿 🕯	>
	In support of mobile output, context tags allow objects in Documaker output to link to a specific	< >
Categories Context Tags Red	lact Tags Transactions	

То	Click
Add a context tag	0
Clear the information for an item. Choose this option to delete all of the information entered in the various fields used to define this item.	থি
Delete an item. Please note there is no confirmation message. As soon as you click this icon, the item is deleted.	×

То	Click
Change the order of an item. Press the up arrow to move the item higher in the tree. Press the down arrow to move the item lower in the tree.	5
Display or hide the information pane.	•
Display Help.	0

DEFINING REDACT TAGS

Redact tags provide a method in Documaker Studio and Documaker Add-in for Microsoft Word to ensure sensitive or confidential information in generated output is not visible to certain recipients. All of the Documaker output drivers support redaction. See the Output Management Guide for redaction settings for the output drivers.

Redact tags are defined in the Application Definition file and assigned to recipients in the Application Definition File and section and paragraph field, graphic and signature objects. When redact data tags are linked to a recipient, it means that the recipient can view the data. For example, a redact tag on a field means that the data is redacted from print except for the recipient(s) specifying the same tag. If the redact tag is not linked to the recipient, the recipient cannot view the data. Recipients can be linked to one or more redact tags by keying the redact tags.

Each redact tag can be up to 64 characters in length, may contain spaces, underscores, upper and lower case characters and extended characters in the Windows 1252 code page such as €, ', œ, TM, È, ÿ. Characters outside of the Windows 1252 code page (e.g. Russian, Japanese, etc.) are not supported.

Since commas are used as separators when assigning multiple redact tags to data elements, commas are not allowed in the redact tag name. Each redact tag may also have a description of up to 256 characters. The description is visible in the recipients, fields, graphics and signatures redact tag pick list and the workspace definition file generated from the Application Definition file. The description should be meaningful to the end user responsible for assigning the redact tags to the recipient and objects.

Note Redact tags are not case sensitive; so, for example, Private and private and PRIVATE and PrIvAtE will all be recognized as one tag.

Click the **Redact Tags** tab to add, modify or delete redact tags.

Redact Tags			
Confidential	Redact Options		
PII Restricted			
Restricted Sensitive	Redact Options		
	Name		
	Description		
	<		

Action	Description
Add Redact Tag	Click the Add icon or select Insert from right click menu to add a Redact tag. Key the name and description of the redact tag in the Redact Options panel.
Modify Redact Tag	Select the redact tag by clicking on it in the Redact Tag list. The Name and Description of that tag is shown in the Redact Options panel
Delete Redact Tag	Select the redact tag by clicking on it in the list of Redact Tags. Click the or select Delete from the right-click menu to delete the Redact tag. Note: Deleting the redact tag from the Application Definition File does not remove it from the recipient(s) or object(s). To change the redact tag assigned to field, graphic and signature objects in sections, use the Change Redact Tag in Studio's Conversion Manager – Change Multiple Sections.

Example 1: Assigning redact tag at the recipient and object level

The Business Definition File in the workspace has three recipients – Company, Home Office and Agent.

Three Redact tags have also been defined in the Business Definition file – Sensitive, Confidential and PII (Personally Identifiable Information).

Each Redact tag is assigned to a recipient:

Recipient	Redact Tag
Company	Sensitive
Home Office	Confidential
Agent	PII

The section CG DEC.FAP contains fields with the following redact tags

Field	Redact Tag	Impact
Test	Sensitive	Company output shows the fields data (it is not redacted). The fields data in the Home Office and Agent output is redacted.
Test2	Confidential	Home Office output shows the fields data (it is not redacted). The fields data in the Company and Agent output is redacted.
Test3	PII	Agent output shows the fields data (it is not redacted). The fields data in the Company and Home Office output is redacted

Example 2: Assigning multiple redact tags at the recipient and object level.

The Business Definition File in the workspace has three recipients – Company, Home Office and Agent.

Three Redact tags have also been defined in the Business Definition file – Sensitive, Confidential and PII (Personally Identifiable Information).

Each Redact tag is assigned to a recipient:

Recipient	Redact Tag
Company	Sensitive
Home Office	Confidential
Agent	PII

The section CG DEC.FAP contains fields with the following redact tags

Field	Redact Tag	Impact
Test	Sensitive	Company output shows the fields data (it is not redacted). The fields data in the Home Office and Agent output is redacted.
Test2	Confidential	Home Office output shows the fields data (it is not redacted). The fields data in the Company and Agent output is redacted.
Test3	PII	Agent output shows the fields data (it is not redacted). The fields data in the Company and Home Office output is redacted

A new field "Test4" is added to the section.

The Company and Home office output should show data for field Test4. Data for field Test4 should be redacted in the Agents output.

There are 2 ways to accomplish this:

Method 1

Define a new redact tag "Private: in the Application Definition File. In the Business Definition file, assign Private redact tag to the Company and Home Office recipients. The recipients would then have the following redact tags:

Recipient	Redact Tag	
Company	Sensitive, Private	
Home Office	Confidential, Private	
Agent	PII	

Field	Redact Tag	Impact
Test4	Private	Company and Home office see data, Agent data is redacted.

Method 2

Assign existing tags of Confidential and PII to the field Test 4.

Field	Redact Tag	Impact
Test4	Sensitive, Confidential	Company and Home office see data, Agent data is redacted.

The result for Method 1 and 2 is the same. The only difference is that in Method 1, a new redact tag is created in the Business Definition file and assigned to the recipients and the field in the section. In Method 2, a new redact tag is not required; the existing redact tags are used.

DEFINING TRANSACTION TYPES

Click the Transactions tab to assign codes to the various types of transactions, such as new business, renewals, or quotes.

In batch processing, you can use the transaction codes you define as one level of form filtering. In data entry and WIP situations, transaction codes can identify the type of transaction being created.

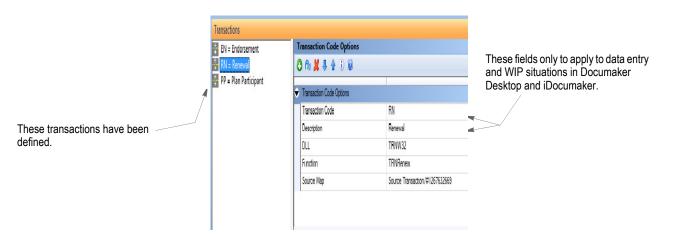
Also for Documaker Desktop, you can use the DLL and Function fields to specify internal or external hook functionality you want the system to execute on that transaction code. For example, you could specify a function that validates the list of forms that were selected.

Starting in Documaker 12.3, Documaker Standard Edition batch processing and Documaker Enterprise Edition support the use of the Transaction Code's Source Map option as defined in Studio. The Source Map identifies a record in the Extract Dictionary that defines the fields and extract data that can be used to locate a source transaction in the system. The source transaction is accessed during runtime as the start of the current transaction being processed.

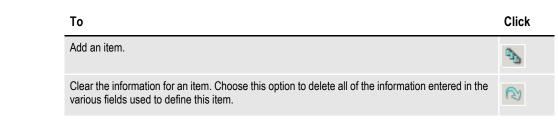
By default, a Source Map would be referenced by Transaction code values of RN and PP. However, the Runmode control group settings RenewalRequestCodes and PlanParticipantRequestCodes can be used to configure different Transaction Code values that use the source transaction functionality.

For more information on source transaction processing, Please refer "Special Transaction Based Processing" in the Documaker Administrator Guide:

e Batch implementations do not use the hook function specified via the DLL and Function fields.



The toolbar provides these options:

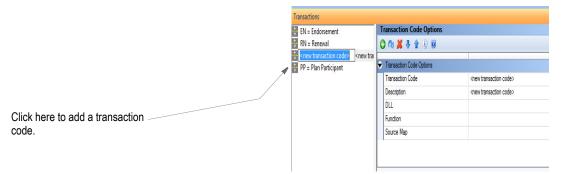


Note

То	Click
Delete an item. Please note there is no confirmation message. As soon as you click this icon, the item is deleted.	×
Change the order of an item. Press the up arrow to move the item higher in the tree. Press the down arrow to move the item lower in the tree. The order of the items defined within the BDF file is the same order used when a user selects forms in via the Entry program.	4
For batch processing, the order of the groups at the BDF level is not usually important, but you may experience a minor improvement in performance if the items used most often appear at the top of the tree.	
Display or hide the information pane.	•
Display Help.	0

ADDING A TRANSACTION CODE

If you need to add a transaction code, click the Add Transaction icon, as shown here:



Then enter the appropriate information in these fields:

Field	Description
Transaction Code	Enter the transaction code you want to add.
Description	Enter a description of the transaction code.
DLL	Enter the name of the DLL you want the entry system to execute to validate the list of forms.
Function	Enter the name of the function you want the entry system to execute to validate the list of forms.
Source Map	Select the Extract Dictionary record that defines the search criteria and source extract data to locate an existing transaction that will be used as the source for the current transaction to be processed.

DELETING A TRANSACTION CODE

If you need to delete a transaction code, select the transaction code you want to delete and click the Delete Transaction icon, as shown here:

	Transactions 4	
	😽 NB = New Business	Transaction Code Options
	🔄 EN = Endorsement	🔁 🕲 👗 🐺 🕆 🧐
	😤 RC = Required Correspor	
	🚼 RN = Renewal	 Transaction Code Options
	😽 QU = Quote	Transaction Code RC
Click here to delete a transaction		Description Required Correspondence
code.		DLL
		Function

Studio deletes the transaction code immediately.

USING REGIONAL DATE PROCESSING

In the U.S. insurance industry, certain forms must comply with a regional authority (usually a state) to be approved for use within that area. The process of getting approval to use forms in each location is often referred to as *submitting for state compliance*.

Because of the various jurisdictions involved, you can have a form which is accepted by some states, but not by others. Alternatively, the form might be accepted by multiple states, but as of different dates. And to add another layer of complexity, states specify which document date must be used when activating this form.

To understand this last point, consider that almost all insurance policies have a date when coverage becomes *effective* – typically referred to as the *policy effective date*. Likewise, a policy usually has a *written* date that identifies when the document was actually drawn up. It is not unusual for the written date to be different from the policy effective date. For instance, you might buy your hurricane insurance today (the written date), but the policy does not become effective for 30 (or more) days. Each regional authority specifies which date determines the compliance of a given form.

This necessity to only activate the use of a form in a given region after a specific date complicates the creation of trigger conditions. Not only do you have to consider the typical transaction information that would cause you to include the form, you also have to calculate the various details to comply with the regional authorities described above.

To help you more easily manage this process, Studio lets you define regional date processing (RDP) rules that you can assign to each form. Part of the support is accomplished in Studio by defining the appropriate regional tests for each form. The remaining part occurs during the batch transactional process via the RegionalDateProcess rule.

Note For more information on the RegionalDateProcess rule, see the Rules Reference.

SETTING UP REGIONAL DATE PROCESSING

To begin using regional date processing (RDP) rules you must activate them for your application definition (BDF file). To activate, you first check out the appropriate application definition and then select the View, RDP option.

⊻ie	/ <u>U</u> nits <u>M</u> anage	
E	Options	
	Toolbar	
	<u>W</u> orkspace Bar	
	O <u>u</u> tput Bar	
	<u>S</u> tatus Bar	
<u>-</u>	<u>F</u> ield Bar	
(\mathfrak{A})	<u>E</u> xtract Bar	
3	<u>N</u> avigation	
<u></u>	S <u>c</u> ripts Bar	
3	RDP	

Once activated, new items are added to the Applications Options pane. These options let you change the default Region Table and set up Date Search Tokens, Region Search Tokens, and Region Shortcuts.

	pplication Options			
÷	Application Options	J		
	FXR file name	rel103sm.fxr		Use these Plus (+) buttons to
	Primary Extract Dictionary (XDD)	Symbol		define search tokens and
	Style file name	ACCIDENT		shortcuts.
÷	Regional Date Processing			
	Region Table Override			
	Date Search Tokens		0	
	Region Search Tokens		e	
	Region Shortcuts		0	

Field Description

Region Table Override	Studio includes a basic region table (RDPTABLE.TBL) that contains the fifty U.S. states and the District of Columbia. It is included to help you select regions when setting up RDP rules. If you need to use a different region table, click the Browse icon beside the Region Table Override field and select the region table you want to use. This table is not required for run-time processing.
Date Search Tokens	Use this field to identify the token names that represent the date searches you will use within an RDP rule.
Region Search Tokens	Use this field to list the tokens you want the user to use when creating an RDP rule. Click the Plus (+) button to add a region search token. To remove an entry, click it and then use the right mouse button to access the popup menu to delete the item. When adding a new Region Search Token, you can use the Look Up button to select from your available fields defined in the Extract Dictionary (XDD) for your setup.
Region Shortcuts	These date and region search tokens are used during the associated batch rule to execute the search on the transaction data and return the appropriate values found. Use the Region Shortcuts to create macros or collections of regions identified with a single name. For instance, you might declare a shortcut named Atlantic and then choose the appropriate states that are identified by that location. Later, when defining an RDP rule, you can select a Region Shortcut token instead of individually selecting each state. The name of the shortcut and the regions included in it are entered in a similar window to the Search tokens defined previously. Clicking the Plus (+) button on this section title displays a window on which you can name your shortcut and select the regions it should contain.

Note

You can see the format of a region table by exploring the RDPTABLE.TBL file that Studio exports for you. There are two columns. The first column contains a descriptive name for the region — like *Alabama*. The second column identifies the data representation that is found when attempting to match with mapped data — like *AL*.

You can edit the content of a region table using Studio's Batch Table manager.

The fields under Regional Date Processing are added when you choose View, RPD

Adding Tokens and Shortcuts

To add date or region search tokens, first click the Plus (+) button in the applicable field. The Regional Date Processing Token wizard appears so you can name the token and enter its search information.

Note You can also right-click while in the Date Search Token, Region Search Token, or Region Shortcut field and choose the Add RDP option.

	Regional Date Processing Token Wizard	K
Click here to select the type of lookup for the search token.	Please select the type of lookup for the token. DAL Script DAL Variable GVM Variable INI Lookup XDD Lookup	
	< <u>Back</u> <u>Vext</u> Cancel Help	

You can choose from these types of lookups:

Lookup	Description
DAL scripts	If you choose DAL scripts as the type of lookup, the wizard prompts you to enter the name of the DAL script. Click the Browse button to choose a script from the Open File window. After you choose a script and click Next, the wizard lets you assign a name to the token.
DAL variables	If you choose DAL variables as the type of lookup, the wizard prompts you to enter the name of the variable. Once you enter this information and click Next, the wizard lets you assign a name to the token.
GVM variables	If you choose GVM variables as the type of lookup, the wizard prompts you to enter the name of the variable. Once you enter this information and click Next, the wizard lets you assign a name to the token.
INI lookups	If you choose INI lookup as the type of lookup, the wizard prompts you to enter the name of the INI control group, the INI option, and the option's default value. Once you enter this information and click Next, the wizard lets you assign a name to the token.
XDD lookups	If you choose XDD lookups as the type of lookup, the wizard prompts you to enter the name of the lookup. Click the Browse button to choose from the Retrieve from Extract Dictionary window. After you click OK, the wizard lets you assign a name to the token.

Note

The date search tokens you list here become the selection choices available to the user who is creating the RDP rule.

To remove an entry, click it and then use the right mouse button to display the popup menu and delete the item.

Region search tokens are entered the same way within their section. Here you list the available tokens you want the user to use when creating an RDP rule.

-	Region Search Tokens	+
	STATE	?STATE/MASTER
	LOC_SLOC	?Location
	CONTROL_STATE	?Controlling_ST

Click the Plus (+) button to add a new region search token. To remove an entry, click it and then use the right mouse button to access the popup menu to delete the item.

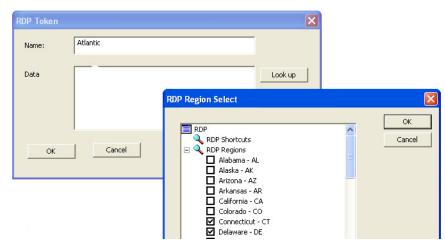
When adding a new Region Search Token, you can use the Look Up button to select from your available fields defined in the Extract Dictionary (XDD) for your setup.

These date and region search tokens are used during the associated batch rule to execute the search on the transaction data and return the appropriate values found.

Note The date in the extract file is in 4Y2M2D format, such as *19880217* for February 17, 1988.

Use the Region Shortcuts to create *macros* or collections of regions identified with a single name. For instance, you might declare a shortcut named *Atlantic* and then choose the appropriate states that are identified by that location. Later, when defining an RDP rule, you can select a Region Shortcut token instead of individually selecting each state.

The name of the shortcut and the regions included in it are entered in a similar window to the Search tokens defined previously. Clicking the Plus (+) button on this section title displays a window on which you can name your shortcut and select the regions it should contain.



Click the Look Up button to display a list of regions from the Region Table along with any other shortcuts you have already created. A region shortcut can contain other shortcuts and these are finally resolved at runtime when the RDP rules execute.

When using the Lookup selection window, simply check, or uncheck, the items you want to include or exclude from this Shortcut definition.

Once you have created all your necessary Date and Region Search tokens and optionally created any Regional Shortcut names you want to provide, save your BDF and check the file back into the library.

SETTING UP REGIONAL DATE PROCESSING RULES

Regional date processing (RDP) rules are defined at the form level using the Form Lists manager. Once you have added date and region search tokens in the RDP settings in the Business Definition manager (and saved your Business Definition File) a new tab appears in your Form Lists manager for RDP rules.

Regional date processing rules are separate from normal trigger rules you might assign to forms. RDP rules operate as a *filter* that occurs before normal form triggering commences. Thus, RDP rules are specified separate to any necessary trigger condition you also would use to identify when you want to include this form.

SAMPCO DEC PAGE ()	-			
DATE		Rule Properties		
DATE		Rule Name	DATE	
ETTER2 (Second Letter)		Date Search Token	DATE	
DATE VARFLD (NEW FORM)		Start Date	1/1/2000	
CHARTS (Form q1cht)		End Date (optional)	3/31/2006	
		Region Search Tokens		
		Token	STATE	
		Region Includes	FL	
		Region Excludes		
		Test Rule Only		

Select the RDP Rules tab to manage your RDP rules assigned to forms. RPD rules are optional. Any form that does not specify an RDP rule is not subject to filtering before the triggering process begins. Also, a form can have multiple RDP rules if necessary. During runtime, each rule will execute in sequence until a matching condition is found, or until the list is exhausted. At that point, the form is excluded form further triggering.

Select the form you want to add a rule to and click the Plus (+) button in the properties area. This adds a rule to the form and starts the RDP Rule wizard.

The first page of the wizard will ask for the Date Search Token (DST) you want to use for this rule. Only one Date Search Token can be used per rule.

ľ	RDP Rule Wizard - Select Date Search Token
	This wizard will help you set up Region Date Processing (RDP) Rules. To get started, select the Date Search Token that will be used for this rule. Date Search Tokens are defined in the Business Definition File (BDF).
	< Back Next > Cancel Help

During rule execution, the Date Search Token is used to find and perform the appropriate search of the transaction data. At that point, it is necessary to compare this date to an appropriate range that you will define next. Click Next.

RDP Rule Wizard - Select Date Criteri	a 🛛 🔀
Now select the date that this rule will become effective on.	2/20/1998
You may specify an end date if this rule should stop being effective at a specified time.	Use an End Date
< Back	Next > Cancel Help

On this page, you identify the date this form becomes effective for this rule. Optionally, you can also specify an end date if the form is only available within a given range. If you do not specify an end date, the form remains active indefinitely.

You can use the pop-up calendar control to select your date.

	2/20/	1998	}				-
4	F	ebru	Jary,	199	8	۶.	
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
25	26	27	28	29	30	31	
1	2	3	4	5	6	7	
8	9	10	11	12	13	14	
15	16	17	18	19	Ø	21	
22	23	24	25	26	27	28	
1	2	З	4	5	6	7	
N	Tod	lay:	3/31	/20)6		

Click Next.

This next step is where you select your region search tokens. You can select all the region search tokens that apply this rule. This means if it is required, you can get search data from multiple locations within the transaction to satisfy this single rule.

RDP Rule Wizard - Select Region Search Tokens	×
Select the Region Search Tokens that will locate regions within your extract file. You may select multiple tokens by holding the Ctrl key and clicking on the token name in the list. Region Search Tokens are defined in the Business Definition File (BDF).	
< Back Next > Cancel Help	

To select an item, click it in the list. It will remain highlighted as you continue to click other items. To deselect an item, simply click it again.

Click Next.

Similar to how you specified a date for comparison to the Date Search Token; the next two wizard pages let you specify the range of values that match your region search tokens.

This page lets you identify all the states or Region Shortcut names you want to include with this rule evaluation.

RDP Rule Wizard - Select Regional Incl	udes	X
Select the regions that apply to this rule. Region Shortcuts are defined in the Business Definition File (BDF).	RDP RDP Shortcuts RDP Regions Alabama - AL Alaska - AK Arkansas - AR California - CA Colorado - CO Connecticut - CT Delaware - DE	
< Back	Next > Cancel Help	

Although you can select multiple region values here, it is only necessary for one of those regions (such as states) to match the resulting search data to satisfy the rule. In other words, specifying multiple selections does not mean they all have to match to satisfy the rule.

Click Next.

Because you can select shortcuts on the previous window that define multiple regions, this page lets you refine your list by excluding certain individual regions.

RDI	P Rule Wizard - Select Regional Excludes	
	Uncheck the regions you wish to exclude from this rule.	
	< Back Next > Cancel He	(p

For instance, suppose you had selected a Region Shortcut named *SouthEast* that contained GA, AL, FL, SC, and NC. Although the previous page would show the selection of *SouthEast*, this exclusion page shows the expanded list of regions included therein. This lets you turn off certain states within that token if they do not apply to this rule.

Another example might be a shortcut called *Nation* that includes all 50 states and DC. But if this rule were to require that California be excluded, you could then deselect (uncheck) CA from the resolved list and that region would be omitted when the rule executes.

Therefore any regions and shortcuts you selected from the first page are resolved to show the individual regions on this page. Then you can uncheck any region, or regions, you want to exclude from the rule.

The final page of the wizard is a summary of your rule's settings. The name of the rule defaults to the Date Search Token selected, but you can override it on this page. Included is a resolved region list of which regions are used for this rule. Click Finish if you are satisfied with the rule, or Back to make changes. Click Cancel to discard all changes and return to a blank Rule Properties screen.

Click Next.

This is the last page of the RDP Rule wizard and represents a summary of the rule definition you have built.

RDP Rule Wizard - Summary	
Rule Name: DATE Date Search Token: DATE Start Date: February 20, 1998	Region Summary: AL AZ
Region Search Tokens: LOC_SLOC STATE	
< Back Finish	Cancel Help

Once you confirm that the information is correct, click Finish and the rule information is saved to the form you previously selected.

The rule definition appears in the property area as you click them under each associated form.

+	XX	
-	Rule Properties	
	Rule Name	DATE
	Date Search Token	DATE
	Start Date	2/20/1998
	End Date (optional)	
-	Region Search Tokens	+
	Token	LOC_SLOC
	Token	STATE
	Region Includes	ALAZ
	Region Excludes	
	Test Rule Only	

You can change certain information in the property window or click the Magic Wand toolbar icon to go through the RPD Rule wizard again.

Note there is one property (at the bottom) that is not shown via the wizard. The Test Rule Only field lets you define a rule for testing purposes only. If you check this field, this rule only executes when you are running Studio's Test manager. This makes it easy to define your rules and work on them without interfering with other users who might be running the batch program externally.

When you are ready for the RDP rule to be used during all runs, simply uncheck the Test Rule Only field.

When you have added all the RDP rules you want, save and check in the Group file.

Note You can see information about the RDP rules you have created when you run an Application Definition report.

GENERATING AN APPLICATION DEFINITION REPORT

To generate a report which shows the options defined for this application definition, choose the Manage, Tools, Reports option and follow these steps:

Mar	nage			
	Workspace			
	Application	•		
	Content	•		
	System	•		
	Libraries			
	Dictionaries	►		
	Lookups	►		
	Tools	•	6)	<u>C</u> onversion
			3	<u>R</u> eports
				Test Scenarios
			1	Deploy
			<u>60</u>	Printstream Analyzer

1. This window appears when you click the Reports option. Click Application Definition Reports.

	Reports	×
Click here to generate an application definition report.	Application Definition Reports Extract Report Field Report Forn Lisage Report Form List Report Form List Report Form Report Form Report Form Report Form Validation Report Impact Report Paragraph Selection List Report	
	Application Definition	

Next, choose the style of report you want. You can see examples of the styles in *Printing Reports* on page 749. The Choose File window appears:

File Type : Definitio	n		
Browse	Select All	Clear Grid	Delete Row
Source	File Name		Ver/Rev/EffDate
🔒 acme			v2.5 1/1/2010

2. Choose the application definition file you want and click Next. The Generate Report window appears.

Gei	nerate I	Report	×
	Press Fini	ish to generate report	
	Status	Tasks	
		acme	
	<u> </u>		
	<u> </u>		
	<u> </u>		
	,		
	Progress		
-			_
		< Back Finish Cancel Help	

3. Click Finish to generate the report. Here is a sample report:

Source: acme.BDF v1.13 1/1/1980

Form List Options

Company	LOB	File Name	Context	Global Context Tag
ACME	ACCIDENT	ACME_ACCIDENT		

Recipient Options

Name	Code	Description
BROKER	003	Broker Copy
HOMEOFF	002	Home Office Copy
ORIGINAL	001	Original

Category Options

Name	Description	
GA	Georgia	
AL	Alabama	
MS	Mississippi	

Context Options

Name	Description
tag1	Mobile tag 1

Redact Options

Name Description		
Sensitive Sensitive Information		
PII Personally Identifiable Information		
tag1 tag1 - misc		

Spot Colors

Ī	D	Name	RGB	СМУК	CIELab
1		PANTONE Rubine Red C			(43.80, 79.35, 12.70)
1	2	Spot Color 2	(25,125,125)	(80.00, 0.00, 0.00, 50.99)	(47.40,-28.02, - 7.99)

Transaction Code Options

Transaction Code	Description	DLL	Function	Source Map
NB	New Business	TRNW32	TRNNew	
EN	Endorsement	TRNW32	TRNEndorse	
RN	Renewal	TRNW32	TRNRenew	
QU	Quote	TRNW32	TRNRenew	

You can right-click within the report to choose from these options:

Option	Description
Clear Contents	Clears the contents of the report window.
Select All	Select all of the text within the report.
Сору	Copy all selected text within the report, so you can paste it into another application.
Save As	Save the report as an HTML file.
Send To	Send the report as an attachment in an email.
Print	Print the report.
Print Preview	Show the report in the Print Preview window.

Example: Add the BDF information for the Medical History form

First remember you must have rights to work in the Application Definition of your workspace. For information on the Key1/Key2 combination of this implementation, see *Example Form* on page 25.

- 1. If you do have rights to do so, right-click the Application level of the workspace tree and select New.
- 2. Click the Add Unit Name icon, and then type the Keyl name in the Unit 1 section of the Forms List Options. In our example, *Training Company*.
- 3. Save the new file and name it.
- 4. Click the Add Unit Name icon again, or right-click the Group name and click Insert to add a Key2, or LOB. In our example, *Accident*.
- 5. Go back and select the new Group name, and enter the FXR and XDD information.
- 6. To add recipients, click the Add Recipient icon in the Recipient pane. Add INSURED, AGENT, AND HOMEOFFICE.
- 7. Save the file and check it back into the Library.

Application Definition			4 Recipients	
XTRAININGCOMPANY9	Form List Options		INSURED	Recipient Options
N 🗶 👚 🕂	N 👗 🕂 🕆 🗅 🗲 🔍 🥑		AGENT	😯 🔍 🗶 🗣 🌒
XTRAININGCOMPANY9_00			HOMEOFFICE	
TrainingCompany	 Form List Options 			 Recipient Options
LIFE	Unit 1 TrainingCompany		Name	
ACCIDENT	Unit 2	ACCIDENT		Code
	Unit 3			Description
	File Name	TrainingCompany_ACCIDENT		Address Map
	Extract Dictionary Override			
	Exclude in user selection			Production (C) (
	 Also Known As 		0	Recipients 💿 🖲
	Key2	LA		Here you define the recipient type name, such as
	Key2	LA		Here you define the recipient type name, such as

Note Any examples in this guide usually demonstrate one possible configuration for a given process. In Documaker there are different ways to achieve the same results, and legacy methods are supported in current versions of Documaker Studio. If your implementation is set up differently than shown in documentation, but is working, do not alter your current configuration.

Chapter 4

Working with Form Lists

Click Form Lists to define a list of the forms that apply to each business unit and to maintain form-level triggering information. You can also define the order in which these forms should be provided.

Information about each group of forms is stored in a file with a *GRP* extension. For each group (Key1/Key2), you have a separate GRP file. Group name (Key1/Key2) information is stored in the BDF file, whereas specific information for each of the forms that make up the group is stored in a GRP file. Make sure you have the needed rights to perform the function, otherwise, contact your System Administrator to update.

This topic discusses:

- Creating a Form List on page 179
- Adding a Form to a Form List on page 181
- Setting Up Form Triggers on page 183
- Triggers Manager on page 189
- Example 1: Adding DAL Triggers to the Medical History Form on page 190

CREATING A FORM LIST

To begin the process of grouping forms, you must first create a form list. Follow these steps:

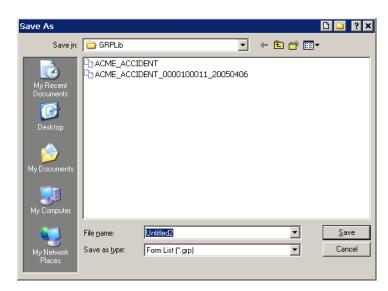
1. To create the group, double click Form Lists. Then click New on the Open File window. You can also right-click the Form Lists option and select New.

The Form List options appear.

2. Enter the following information to set up the forms you want included in the group in the following fields. Keep in mind that the forms do not have to exist at this point, you are merely creating a list of form names and defining some of the options that apply to those forms.

Field	Description
Form Name	Enter the name of the form you want to include in the group. You can enter up to 100 characters. This name appears on the Forms Selection window in Documaker Desktop
Form Description	Enter a description of the form. You can enter up to 100 characters. This description appears in the object tree beside the form name. This description can help a Documaker Desktop user select the correct form.
Dec Options	 Choose the appropriate declaration page option. Your choices are: None - Any page other than a policy declaration page Dec Page - A policy declaration page Master Dec - A master declaration page for the form set (package policy) Sub Dec - A sub dec page for one group in the form set This option is only used by Documaker Desktop. What you select here determines the manner in which Documaker Desktop presents declaration pages during entry. This option is ignored during batch processing.
Pre-selected	Check this option if you want Documaker Desktop to automatically select this form during entry.
File Name	Enter a file name for this form. You don't have to name your files in exactly the same way that Studio might default them and that you can change that file name property to be the name you choose for your library resource. However, some platforms will not let you use certain characters in file names.

- **Note** Because Dec Options and the Pre-selected fields are stored at the group level, you can reuse the same form in different groups.
 - 3. Choose File, Save to save your work. The Save As window appears.



Enter the name of the group in the File Name field.

Note Another way to create a form list is to click the Add Unit Names icon when working with Application Definition files.

ADDING A FORM TO A FORM LIST

To add a form to a form list, follow these steps:

1. Click the plus sign (+) to the left of Form Lists and then select the form list you want to work with.



The following window appears.

	C ACME_ACCIDENT v1.11 4/6	
	Forms 📮	Properties 4
	ACME ACCIDENT 000010001	Form List Options
	E X A 4	
	ACHE_ACCIDENT	
	🗉 Letter (Policy Cover Letter)	Form Lists
	🗉 Business Applic (Applicatior	ACME
	 CONFIRMATION (Policy Sur 	
	MEDICAL HISTORY (Applica	
Click here to add a form to the list.	 forced (Forced Overflow) 	
	GA	
	MS	
	AL	

2. Click the Add New Form icon to add a form to the list. The Form List Options appear for the form you added.

Properties		
Form List Options		
E 🗲 🚯 🔞		
Form List Options		
Form Name	WELCOME_LETTER	
Form Description		
Dec Options	None	
Pre-selected		
Exclude from page count		
Exclude in user selection		
File Name		
Email Body		
Email Attachment		
	Form List Options	

3. Enter information into the following fields:

Field	Description
Form Name	Enter the name of the form you want to include in the group. You can enter up to 100 characters. This name appears on the Forms Selection window in Documaker Desktop

Field	Description
Form Description	Enter a description of the form. You can enter up to 100 characters. This description appears in the object tree beside the form name. This description can help a Documaker Desktop user select the correct form.
Dec Options	 Choose the appropriate declaration page option. Your choices are: None - Any page other than a policy declaration page Dec Page - A policy declaration page Master Dec - A master declaration page for the form set (package policy) Sub Dec - A sub dec page for one group in the form set This option is only used by Documaker Desktop. What you select here determines the manner in which Documaker Desktop presents declaration pages during entry. This option is ignored during batch processing.
Pre-Selected	Check this option if you want Documaker Desktop to automatically select this form during entry.
Exclude from Page Count	Check this option to exclude the form from the page count. Then it will not be counted in the page numbering for the entire document. Also, any Page Num fields that you place on the pages of this form will be blank.
Exclude from User Selection	Check this option to prevent end users from selecting this form.
File Name	Enter a file name for this form. Usually, you would keep the form name and the file name the same, but some platforms will not let you use certain characters in file names.

Note

Because Dec Options and the Pre-selected fields are stored at the group level, you can reuse the same form in different groups.

SETTING UP FORM TRIGGERS

You can create triggers at both the form and section level. Form level triggers are stored at the group level and specify the condition that would cause a form to be included (or triggered) with a transaction. You should always specify a trigger for a form.

Note Section level triggers are stored at the form level and specify the condition that would cause the section to be included on the form. Only set up section level triggers if the section's presence on the form is conditional.

Studio assumes you do not want to trigger any of the sections that comprise a form if the form level trigger is false. Therefore, section level triggers are automatically ignored when the form level trigger for the transaction being processed is false. This makes the legacy use of an *M* occurrence flag unnecessary if you want the system to only evaluate section level triggers when the form level trigger is true, as was the case in Docucreate's Image Editor.

If you omit a form level trigger, the system does not operate as efficiently since every section level trigger must then be evaluated by the system.

You can assign triggers to include or exclude:

- An entire form
- Sections within a form
- Text areas within a section
- Optional paragraphs in a paragraph list

You can apply triggers to sections on forms, text areas on sections, and paragraphs in paragraph list files. This table summarizes assigning triggers in both Studio and the Documaker Add-In for Word.

To trigger	Туре	Studio	Documaker Add-In for Word
An entire form		Add the converted form to the Form List file using Form List manager. Apply the Form level trigger to the Form in Form List manager.	n\a
Sections within a form	Form	Create a for which includes sections. Section triggers are listed against the sections to which they were applied.	Insert a section. Apply triggers to applicable sections.
Text areas within a section	Section	Create a section which includes text areas. Text area triggers are listed against the sections to which they were applied in the Word Add-In	Insert a text area. Apply triggers to applicable text areas.
Optional paragraphs in a paragraph list	Paragraph list	Create a paragraph list file which includes paragraphs. Paragraph triggers are listed against the paragraphs to which they were applied in the Word Add-In.	Add paragraphs. Apply triggers to the applicable paragraphs.

In Studio you cannot assign a trigger to a standalone section, a standalone form or a standalone paragraph list. Form triggers are applied to forms in the Form List manager. Section triggers are applied to sections in Form manager. Triggers cannot be applied to a paragraph list file because there is no triggering at the paragraph list level.

If, when using the Add-In, you assign a trigger at the form, section, or paragraph list level on Documaker documents with the type of form, section, and paragraph list respectively, Studio removes these triggers during the conversion to Studio.

DAL or Manual Trigger Entries

There are several types of triggers in Documaker Studio. Legacy Documaker users will often use what are called *manual triggers*. These triggers build a SetRecip table entry on the form or section. For more information, see *SetRecip Table* on page 188.

Users that are new to Documaker can begin building their system with DAL triggers. This also builds a SETRCTB entry, but this file contains scripting functions specific to DAL use. The DAL SETRCTB file is seen in the Triggers manager in the Application level of the workspace tree. Using the DAL wizard in the Triggers manager requires the use of the Extract Data Dictionary, or XDD, as well. Writing DAL triggers using the Script View does not require XDD configuration.

The tables below specify which options pertain to manual vs. DAL trigger options. Trigger functionality, and its use in overflow and other processes, is supported in either scenario.

Note DAL stands for *Document Automation Language*. It is proprietary to Documaker, and is a flexible scripting language that can be used for triggering, customizing data elements, insert form objects, entry form inclusion, and other functions. Please see the DAL Reference for more information.

ASSIGNING FORM LEVEL TRIGGERS

Follow these steps to add form level triggers.

- 1. Highlight Form Lists, right-click and select Open.
- 2. Select the group file in which the form is located and click Ok.
- 3. Choose the Insert, Triggers option. By default, this inserts a DAL trigger.

CACME_ACCIDENT v1.11 4/6			
Forms 🕈	Pro	operties	Ļ
ACME ACCIDENT 000010001	D	AL Trigger Options	
E 样 🕆 🗏] 差 🕘 🥹	
ACME_ACCIDENT Letter (Policy Cover Letter)	F	Trigger	
	Е	Name	ALWAYS
🗡 ALWAYS	÷.	Advanced	
 Business Applic (Application 		Transaction codes	
CONFIRMATION (Policy Sur		Occurrence Flag	1
MEDICAL HISTORY (Applica	L .	Records on different first section	
forced (Forced Overflow)	L .	Records per overflow section	
GA MS	÷	Recipients	
AL		BROKER	1 Copy
		HOMEOFF	1 Copy
	L	ORIGINAL	1 Сору

4. Use the Trigger Options fields to set up the triggers for your form.

Field	Description
Trigger	
Name	Select the trigger name from the trigger list or select Manual Trigger to create your own. Additional fields appear if you choose Manual Trigger.
Advanced	(Some options may not be present in all managers.)
Transaction Codes	By including one or more transaction codes in this field, you trigger a particular form (or section) only if the extract file record includes that particular transaction code.
Occurrence Flag	 To use the search mask as a counter, set the Occurrence Flag to one (1). Use with the Search Mask Counter, Records on Different First Section, and Records Per Overflow Section fields. (0=no overflow and 1=overflow) Performance issue flags in this field include: Master (M) form level trigger flag Form (F) form level trigger flag Subordinate (S) Section level trigger flag
Records on Different First Section	Lets you indicate the number of records that appear on the first section before overflowing to a new section.
Records per Overflow Section	Lets you specify the number of records matching the search mask that will fit on the specified overflow section. If the value is zero (0) and the Occurrence Flag is set to one (1) with the Search Mask Counter set, the system automatically sets this flag to one (1) to perform the overflow calculations.
Search Mask (True/False)	This field only appears if you choose Manual Trigger in the Name field. Define the search criteria to use in determining whether this event should occur. If the search yields a result, a True result is returned. If the search finds no data, the trigger result will be False.
Search Mask (Counter)	This field only appears if you choose Manual Trigger in the Name field. Define the search criteria to use in determining how many duplications of this item to include in the resulting document. The trigger will be applied once for each occurrence found by the search mask. If no matching data is found, the trigger result is 0 (False) and the item is normally excluded.

Field	Description
Custom Rule Name	This field only appears if you choose Manual Trigger in the Name field. This field defines an alternate (custom) rule to execute on this manual trigger to determine its result. For most manual triggers, this field should be left blank.
Custom Rule Parameter	This field only appears if you choose Manual Trigger in the Name field. This field defines an alternate (custom) rule to execute on this manual trigger to determine its result. For most manual triggers, this field should be left blank.
Recipients	(Some options may not be present in all managers.)
(recipient name)	Specify the copy count for each recipient.

ASSIGNING TRIGGERS AT KEY2 LEVELS

You can assign multiple lines of business within a single document, such as Package Policies, and trigger multiple group files at a Key2 or Key3 level.

Defining a Key3 Trigger

Here is an example of how you could define a Key3 trigger. This example adds a Key3 group (Key3) with a manual trigger ("11,Test Key 3").

Application Definition				
GROUP_TRIGGER	Т	rigger Options		
N 👗 🕆 🐺	q) 🥑		
GROUP_TRIGGER_0000100011_19800101		T.'		
Group_Trigger	$\mathbf{\Sigma}$	Trigger		
Business		Name	{Manual Trigger}	
TEST		Task Comments		
 TEST MANUAL KEY3 MANUAL 	•	Advanced		
		Transaction codes		
		Search mask (True	11,Test Key 3	
		Custom rule name		
		Custom rule parame		

The system only evaluates the Key3 trigger if a corresponding Key2 group (TEST_TEST) has been triggered. If the system evaluates the search mask as True and the corresponding Key2 group has been triggered, it evaluates the form in the Key3 form list.

Keep in mind...

- Group triggers only work with the RunTriggers rule.
- The system only evaluates a Key3 trigger if a corresponding (matching Key1 and Key2 group names) Key 2 group has been triggered. There are several ways a Key2 group can be triggered:
 - The Keyl and Key2 definition from the INI is mapped for the transaction.

- Key2 triggers can explicitly include the group.
- An import adds a Key2 group. If the system then executes the RunTriggers rule to get more forms, it would then be able to run the Key3 triggers for any Key2s brought in via import.

SETRECIP TABLE

The SetRecip table lets you specify the conditions under which a form or a section will get triggered when building manual trigger entries. To create a manual trigger, first add a trigger to a form. In the Trigger Name field select Manual Trigger. Depending upon the requirement, not every field is completed. This table discusses each field:

Section	Field	Description			
SetRecip	Transaction Codes <transcds></transcds>	By including one or more Transaction codes in this field, you trigger a particular form (or section) only if the extract file record includes that particular Transaction Code.			
	<recips></recips>				
	Search Mask (Counter) <mask1></mask1>	Lets you set the criteria to determine whether or not a form (or section) belongs in the form set. The criteria allows the Rules Processor to get specific data from the extract file. Adds one form (or section) for every occurrence of the search mask per transaction. The Occurrence Flag must be set to one (1) for the search mask to act as a counter.			
	Occurrence Flag <occurrence></occurrence>	To use the search mask as a counter, the Occurrence Flag (overflow) must be set to one (1). Use with the Search Mask Counter, Records on Different First Section, and Records Per Overflow Section fields. (0=no overflow and 1=overflow) Performance issue flags in this field include: - Master (M) form level trigger flag - Form (F) form level trigger flag - Subordinate (S) section level trigger flag			
	Records on different first section <recsper1st></recsper1st>	Lets you indicate the number of records that appear on the first section before overflowing to a new section.			
	Records per overflow section <recsperimg></recsperimg>	Lets you specify the number of records matching the search mask that will fit on the specified overflow section. If the value is zero (0) and the Occurrence Flag is set to one (1) with the Search Mask Counter set, the system automatically sets this flag to one (1) to perform the overflow calculations.			
	Search Mask (True/False) <conditional></conditional>	Similar to Search Mask (Counter), but only one form (or section) is triggered, regardless of how many occurrences of the condition exists.			
	Custom Rule Name <functionname></functionname>	Normally used for custom implementation requirements. Only exceptions are RECIPIF and RECIPCONDITION rules.			
	Custom Rule Parameters <data></data>	Specifies parameters for the custom rule used in the Custom Rule Name field.			
Recipient	Form Level Trigger Recipient Copy Count <recipcpyct></recipcpyct>				
	Section Level Trigger Recipient Copy Count <recipcpyct> Recipient names listed with no check or a check</recipcpyct>	Defaults the recipient copy of each recipient defined at the form level If recipient was eligible in the form file, it is checked here.			

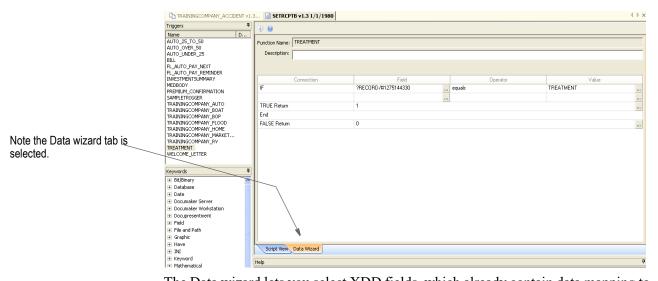
Triggers Manager

You can use the Triggers manager in the Application level of the workspace tree to build DAL triggers. Triggers can be added using the Data wizard or written as DAL scripts.

A default DAL trigger of ALWAYS is inserted when adding any new trigger on a form or section. The Always trigger lets you enter the recipient copy count and other information as you would for any other trigger. Building a trigger that is based on specific data fields already configured in your environment, however, can be done via the wizard.

Note To use the Data wizard for DAL triggers, you must first have your XDD, or Extract Dictionary, configured with mapped data elements that you want to use for triggering.

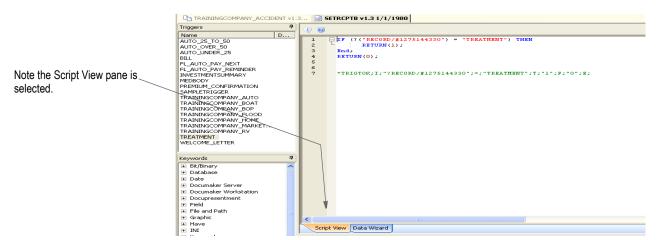
A view of the SETRCTB file checked out of the library and open under the Triggers manager is shown below:



The Data wizard lets you select XDD fields, which already contain data mapping to XML elements in your data extract file, for use in DAL triggers. You click the Fields button to search for XDD fields to use in the trigger statement:

TRAININGCOMPANY_ACCIDENT	/1.3	SETRCPTB v1.3 1/1/1980				< ▷ ×
Triggers	4	· · · · · · · · · · · · · · · · · · ·				
Name D						
AUTO_25_TO_50	Fu	Inction Name: TREATMENT				
AUTO_OVER_50		Description:				
AUTO_UNDER_25 BILL		Description.				
FL AUTO PAY NEXT						
FL AUTO PAY REMINDER						
INVESTMENTSUMMARY		Connection	Field	Operator	Value	
MEDBODY	IF.	F	?RECORD/#1275144330	equals	TREATMENT	
PREMIUM_CONFIRMATION						
SAMPLETRIGGER TRAININGCOMPANY AUTO						
TRAININGCOMPANY_ADTO		BUE Return	1			
TRAININGCOMPANY BOP	E	🕫 🕮 Extract Field Lookup			X	
TRAININGCOMPANY_FLOOD	E					
TRAININGCOMPANY_HOME			Search Level Override 🔲 Filter for Condition	nal Triggers		100
TRAININGCOMPANY_MARKET		 Symbol 				
TRAININGCOMPANY_RV TREATMENT		AGENT				
WELCOME LETTER		DALAGENTCITYSTATEZIP				
WEDGONE_EETTER		DALRULCHANGELOGO				
	- 11	DALRULINSUREDCITYSTATE				
Keywords	7	DALRULSUBJECTLINE				
Bit/Binary	~	DALTRGINSUREDAGECALCULA	TION			
Database		DATA				
Date		HEADER				
Documaker Server		 INSURED 				
Documaker Workstation		 INSURED2 				
Docupresentment		 INVESTMENTALLOCATION 				
Field		INVESTMENTSUMMARY				
Ⅲ File and Path		 MARKETING 				
Graphic						
IE Have		SYSDATE				
+ INI		TREATMENT				
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Mathematical						
Miscellaneous	Lι					
Name		OK Cancel				
Page	Т	-			la l	^
Printer/Recipient		· · · · · · · · · · · · · · · · · · ·			· · · · · ·	

It then builds the script of that trigger, seen on the Script View pane:



If you are familiar with DAL scripting, you can write the triggers directly into the Script View pane. This would *not* require the configuration of the XDD prior to use.

Example 1: Adding DAL Triggers to the Medical History Form

(See the *Example Form* on page 25.)

- 1. In the Triggers manager, add a trigger for the Medical History form. Our implementation condition said this form should print when there is a Treatment record for a transaction.
 - Right-click in the Triggers pane and select Insert New Function. Name the trigger *Treatment*.
 - Use the If Then statement that appears in the Data Wizard window and search in the Field window. Select the Treatment parent record, and then Record from its children.
 - The operator is *Equals*, and the Value is *TREATMENT*. (Our record information was formatted in the XML as!/*TRAININGCOMPANY/DATA/ TREATMENT/RECORD* based on our implementation information provided in Chapter 1.)
 - A TRUE returns one (1). False returns zero (0).
 - If you click the Script View pane, you are asked to save your script.
 - You could also write the script in the Script View pane without using the wizard. See the DAL Reference for information on writing DAL scripts.
- 2. In the Forms List manager, open the TrainingCompany group file, and click the icon to Add a New Form.
 - Search for the Medical History form.
 - Click the icon to Add Trigger.
 - Select the TREATMENT trigger created above by clicking in the Name field.

• This form is an Overflow form. We can select the Use Section Count for our Recipient copy counts since our sections will have trigger information as well. Please see *Handling Overflow* on page 875 for a discussion of Overflow parameters.

TRAININGCOMPANY_ACCIDENT v				•	1	
Forms #	Pre	perties	4	Page 1		
TRAININGCOMPANY_ACCIDENT_0000100003_19800101		AL Trigger Options		TrainingCompany Life and S Mandatory Medical History		
■ 🗯 全 寺	E	1 🗲 🗣 🙆		Hadical Netgy Is required for TakingScepany (24 A) [To core very and stipolity below. This method Netgy is mandres for all agest hange area for all percent houses. Devidents of "Yes" networks 60-91. Instead diagrams, devident, physicine, and adversarial providinges. David and of "Yes" networks 60-91. Instead diagrams, diagrams, and adversarial providinges. David and a physicine and tabulants under an iterat daw. After Methods with the science of the science of any adversaria physicine science.		
TRAININGCOMPANY_ACCIDENT MEDICAL HISTORY USING MEDBODY 1 (One Record Per Section)	F	Trigger				
MEDICAL HISTORY USING MEDBODY I (Une Record Per Section) TREATMENT		Name	TREATMENT			
MEDICAL HISTORY USING MEDBODY2 (Multiple Records Per Section)	L	Description				
	-	Advanced				
		Transaction codes				
		Occurrence Flag	1			
		Records on different first section				
			Records per overflow section			
	-	Recipients				
		AGENT	Use section count	1		
		HOMEOFFICE	Use section count	1		
	L	INSURED	Use section count			
				1		
	L			TARE I Page TARE Aver MARCH STATE		

Example 2: Adding Manual Triggers to the Medical History Form

How would the trigger look if you added the Medical History form with a manual trigger instead of a DAL trigger?

- 1. In the Forms List manager, open the TrainingCompany group file, and click the icon to Add a New Form.
- 2. Search for the Medical History form.
- 3. Click the icon to Add Trigger.
- 4. In the Name field, select Manual Trigger.
- 5. You want this form to print once if 1 Treatment record is found in the transaction. So you use the Search Mask (True/False) option. Enter the xPath to the Treatment record, which is!/TRAININGCOMPANY/DATA/TREATMENT.

You can let the recipient entries remain as they are so Documaker will evaluate section-level triggers.

TRAININGCOMPANY_ACCIDENT v						
forms 4	Pro	operties		4	Pa	age 1
TRAININGCOMPANY_ACCIDENT_00001		rigger Options				TrainingCompany Life and II: Mandatory Medical History
🗈 其 🕆 🐥		1 🗲 🔍 🔞				Nedical history is required for TrainingCompany Life & if to cover any and all policy hotiers. This medical history is mandatory for all appears due for all persons involved. Give details of "life" answers to Q4.21, include
TRAININGCOMPANY_ACCIDENT		Trigger		71		deproces, dates, physiolans, and other medical probibilities. Show addresses and telephone numbers not lided above. This information will be stored for a total of seven years or until the policy is terminated.
MEDICAL HISTORY USING MEDBODY1	Ľ	Name	(Manual Trigger)	-11		
🗯 Manual		Description	(manual higger)	-11		
MEDICAL HISTORY USING MEDBODY2		Advanced		-11		
		Transaction codes		-11		
				-11		
		Search mask [True/False]	1/XTRAININGCOMPANY10/DATA/TREATMENT	-11		
		Search Mask (counter)		-11		
		Occurrence Flag	0			
		Records on different first section	0			
		Records per overflow section	0			
		Custom rule name				
		Custom rule parameters		ш		
	-	Recipients				
		Recipient copy count	0			
		AGENT				
		HOMEOFFICE				
		INSURED				
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Note Any examples in this guide usually demonstrate one possible configuration for a given process. In Documaker there are different ways to achieve the same results, and legacy methods are supported in current versions of Documaker Studio. If your implementation is set up differently than shown in documentation, but is working, do not alter your current configuration.

Chapter 5

Managing Forms

Click Forms to work with the list of sections that comprise the form and maintain section-level triggering information. The triggering information determines what criteria must exist for this form to be included in a form set. Make sure you have the needed rights to perform the function, otherwise, contact your System Administrator to update.

This chapter discusses the following topics:

- Overview on page 194
- Using the Forms Screen on page 200
- Creating a Form on page 208
- SetOrigins on page 217
- Using Form Templates on page 225
- Setting Up Section Triggers on page 233
- Example 1: Add the Medical History Form on page 231
- Example 2: Add a DAL Section trigger to the Medical History Form on page 239
- *Example 3: Add a Manual Section trigger to the Medical History Form* on page 243

OVERVIEW

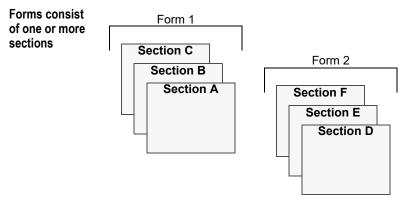
A form is a single document containing one or more pages or sections. Most forms contain multiple pages that are usually printed on both sides of a single sheet (duplex). Some forms are printed only on one side (simplex). Typical forms include insurance policies, tax returns, and mortgage documents.

The information for a form is stored in a file with an FOR extension. For each form you create, you have a separate FOR file. The form name is listed in a GRP file, whereas the specific information for each form is stored in a separate FOR file. Note that the Form level of the Workspace tree is also where you will add any Section triggers needed for your implementation (typically used in Overflow processing).

A form includes two types of data: *fixed* and *variable*.

- *Fixed* data is the same on every copy of the form. This includes items such as graphics. This information remains constant regardless of the data entry.
- *Variable* data can differ from form to form. This includes items such as individuals' names, addresses and policy numbers. This information relates to the transaction-specific data processed on each form.

A single form consists of one or more sections. Since multiple forms and sections make up a form set, you can view and navigate through each form and section individually.



A form can consist of multiple sections and, consequently, you can view the varying sections within a form by displaying different pages of the form.

The content of forms can be created several ways. One is with the Forms manager, located under Content in the Workspace tree. Forms can also be created through the Documaker Add-In for Word (please see *Using the Documaker Add-in for Microsoft Word* on page 840), conversions of documents in 3rd party systems (please see *Converting Files* on page 693), as well as with embedding sections discussed below.

USING EMBEDDED SECTIONS

Few other document composition tools uses sections as building blocks for forms. In most, you work on individual forms as a whole. Since Studio users sometimes import content from other tools, Studio provides a way to break imported or converted forms into sections. These sections are called *embedded sections*.

Embedded sections provide a way to edit the content of a form as though it was a section. You can also *unembed* an embedded section if you want to replace it with another section or make that content available for use on another form.

Embedded sections also provide a way to maintain the content of a form without having to create a separate library resource and check out the section to edit it. This lets you see the edits to a section in context with the remainder of the form. Using embedded sections can be appropriate when you do not plan to reuse or maintain separate versions of the content.

You can import these types of files into Studio:

- RTF files
- DOC and DOCX files created in Microsoft Word
- DOCX and DOCM files created with the Documaker Add-In for Word which have a document type of *form*

These files are imported as forms, with at least three sections:

Header (or dummy header section)
Body section
Footer (or dummy footer section)

By default, these sections are embedded into the form during the conversion. For more information on converting and importing files, see *Converting Files* on page 693.

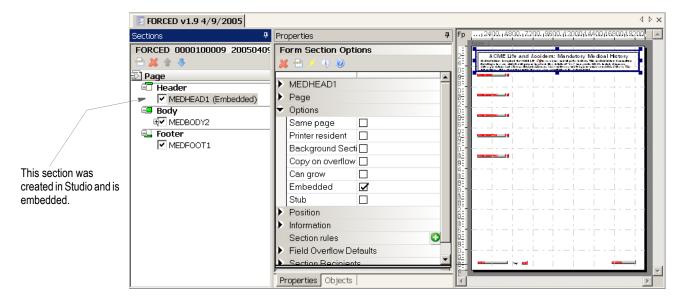
Note You can also manually embed sections you create in Studio after you insert them into a form.

When you use embedded sections, each section can still be named, but will not load from the library because its content is part of the form. The sections are assigned names derived from the name of the document or the use of the content within the document — such as *header* or *footer*.

If you specified the section name in Studio or you converted a section from the library into an embedded section, the name of that section would appear in Form or Template manager as shown here:

SectionName (Embedded)

Here is an example:



Editing an Embedded Section

You edit embedded sections using the Forms or Template manager, instead of the Section manager.

To edit an embedded section in the Forms manager, follow these steps:

- 1. Select a section in the Sections object tree
- 2. Right-click and select Edit on the right-click menu.
- Note You can also double-click the section in the work area.

Once you are in section edit mode in Forms manager, the menu and toolbar changes to reflect the Section manager options. You also see Section options on the Properties tab.

Properties	д	Fp	2400. 4800		9600, 1200	14400 1	16800 1
Section Options 🗿 🗶 🗘 🗄 🥖 🌖	0	ı h: 🖬 🗳		er a calendar a 🖠 🐜	ent: Mandat	halabra. THe residual	Note: Is minute
🕈 General		8 ⁻		1			
Margins							
Paper		2			i - i - i		. <u>.</u>
 Information 		2:					
File name	MEDHEAD1	6 <mark>-</mark>					
Description							
Task Comments		0					
Creation date	Tue Jan 07 13:23:24 199						
Designer	FORMAKER	4					
Fontfile	rel113sm	0 <u>-</u> 0					
Current user	MWN	<u>@:</u>			· · ·		
	History	9: 2					
Section rules	0	<u>0</u>					
Entry		1 6			-		- +
Color		<u>0</u>	i i				
		Î.					POLIDUM
Properties Objects		- <u>P</u>					

Section objects are listed on the Objects tab. Just click an object in the list to display its properties.

Note

Press Esc, when in section edit mode but without an object selected, to exit section edit mode.

Unembedding an Embedded Section

The Embedded option lets you indicate whether the section should be part of the form or its own file in the library or on disk. To unembed an embedded section, simply uncheck the Embedded option.

Pr	operties	Ţ	
F	orm Section Options	5	
8	🕻 🗄 🥖 🌒 👘 🖉		
)) (MEDHEAD1 Page Options		Click this option to unembed an embedded section.
	Same page Printer resident Background Section Copy on overflow Can grow Embedded Stub		
))))	Position Information Section rules Field Overflow Defau Section Recipients	lts 🖉	

If the section was manually embedded, you are finished. If the embedded section was created via a conversion, the Embedded Section wizard appears. This wizard guides you through a series of questions to determine how to handle the section. If a section with the same name exists in the library, you see this message:

Documa	ker Studio 🛛 🔀
?	A version of this section exists in the library. Would you like to use the version in the library (Yes), start the unembed wizard to choose a new section or save this version as a new file (No), or cancel this action (Cancel)?
	<u>Yes</u> <u>No</u> Cancel

You have these options:

If you want to	Click
Replace the section on the form with the one found in the library	Yes
Start the wizard to determine what to do	No
Leave as embedded	Cancel

If you click No, or if there was no section already in the library by that name, the Embedded Section wizard appears:

Embedded Section Wizard - Choose Action 🛛 🛛 🗙		
You have chosen to unembed a section. We were unable to locate a section with the same name in the library or on disk. Please tell us what you would like		
to do with this section.		
Replace the embedded section with one from the library or disk		
O Save this section		
C Unembed the section only		
< Back Next > Cancel Help		

You have these choices:

• Replace the embedded section with one from the library or disk.

If you choose to replace the section with another section from the library or disk, the Open File window appears:

Iter Preview 🕨 🕨						34 of 34	<u>O</u> K
	Name	Туре	Ver	Rev	Effective Date	Locked 📥	
<u> </u>	APPLIC11	FAP	00001	00006	1/1/1980		<u>C</u> ancel
ACME	APPLIC21	FAP	00001	00002	1/1/1980		Browse
Speci	AUTO 25 TO 50	FAP	00001	00001	1/1/1980		DI UWSE.
	AUTO OVER 50	FAP	00001	00001	1/1/1980		🗌 Open as
	AUTO UNDER 25	FAP	00001	00001	1/1/1980		read-onl
	AUTORTE	FAP	00001	00001	1/1/1980		
	BILL INFO	FAP	00001	00002	1/1/1980		New
	ENTRY	FAP	00001	00003	1/1/1980		
	MEDBODY1	FAP	00001	00001	1/1/1980		
	MEDBODY2	FAP	00001	00007	1/1/1980		
	MEDFOOT1	FAP	00001	00001	1/1/1980		
	MEDHEAD1	FAP	00001	00001	1/1/1980		
	SUM101	FAP	00001	00001	1/1/1980		
	SUM11	FAP	00001	00001	1/1/1980		
	SUM111	FAP	00001	00004	1/1/1980		
	SUM21	FAP	00001	00003	1/1/1980		
	SUM31	FAP	00001	00002	1/1/1980		
T	SUM41	FAP	00001	00001	1/1/1980	_	

Choose the section you want and click Ok. Click Browse to choose a section from disk.

• Save this section.

This option creates a section in the library with the currently embedded content. You provide a name for the section and tell Studio whether it should check this new section into the library or have it remain on disk.

Enter the name for the section here.	Embedded Section Wizard - File Options	×
	Section Name: MEDHEAD1	
	Check into Library	
Remove this check mark if you want the section to remain on disk and not be checked into the library.		
,	< Back Finish Cancel Help	

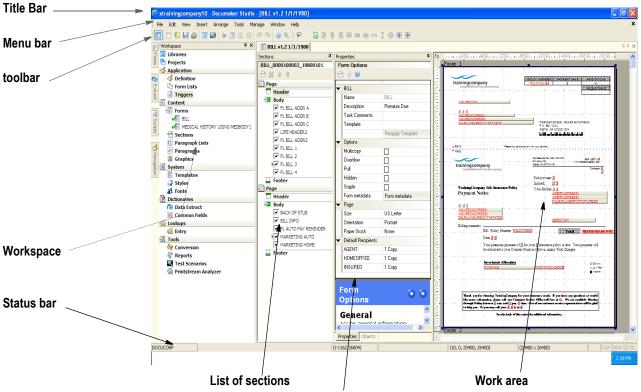
• Unembed the section.

By choosing to unembed the section, the content is removed and not replaced. You will see the result after you close the form and then reopen it.

USING THE FORMS SCREEN

Studio places all the tools you need to manage your forms at your fingertips. The screen is your forms work area. It is important to become familiar with the general screen layout and parts of the screen. Understanding the screen layout will help you work quickly and efficiently.

The first window that appears when working with forms is shown here.



Form or section properties

ltem	Description
Title bar	The title bar displays the name of the workspace you have open, followed by Documaker Studio, and then the name of the form you have open.
Menu bar	The menu bar provides the list of available pull-down menus.
Toolbar	The toolbar contains a row of icons that provide quick access to common options.
Status bar	The Status bar gives the coordinates of the mouse pointer in the work area. The mode of operation, such as ready or edit, also appears here.
Workspace	The workspace lets you quickly access different items. It also shows which specific resources that are checked out (green check mark), which resources are checked out by another user that you would only have read-only access to (red check mark), and which resources are open in read-only mode or have never been checked into the library.

ltem	Description
Section tree	Shows the sections that comprise the form. The check boxes adjacent to sections in the Sections workspace tree are provided for view/ review purposes only when editing the form. Un-checking the box is not the same as deleting the section. Un-checking the box gives you a view of the form excluding that section. If a section uses print options such as first only, last only, etc. they may be checked off in the Section workspace tree. Checking on the box will give you a view of the form including that section. Changes to check boxes are not retained when you save the Form; they are just for view /review purposes after opening a Form.
Form or section properties	Depending upon whether you highlighted a form or a section, if you click the Properties tab, Studio shows you the properties for that form or section. If you click the Triggers tab, Studio shows you the triggers for that form or section.
Work area	This is where you add, delete, or re-arrange the sections that comprise the form. You can also test entering data onto the form.

USING THE MENU BAR

This topic introduces you to the pull-down menus which include additional options or are only available when you are working with forms. A summary of each of these menu appears below. The menus are listed in the order they appear on the menu bar.

Note For information on the standard menus and menu options which are always available, see *Using System Menus* on page 35

Menu	Description
Insert	Lets you insert pages, sections, groups, subforms, and triggers into a form.
Arrange	Lets you align, distribute, and center objects on the page.
Tools	Provides various tools for working with forms and sections. For instance, these tools let you disassociate the form from a template, create readability statistics, or perform a data entry check. You can also use this option to view the task list and to validate or normalize the form.

Using the Insert Menu

The Insert menu provides options useful when you are adding content to a form.

Inse	ert Arrang	e
	<u>P</u> age	
Ð	Section	
	Group	
	Sub <u>f</u> orm	
1	Tr <u>i</u> gger	
Option [Description
Pa	ge	Adds a page to the form.
Section		Adds a section to the form.

Option	Description
Group	Adds a group begin section. When you add a group begin section, a group end section is automatically added.
	This lets you associate sections and optionally assign a common trigger to all of them. You can drag and drop or create sections between the <i>group begin</i> and <i>group end</i> sections to indicate they are part of the group. A form group can optionally have a group rule associated with the <i>group begin</i> section.
Subform	Adds a subform to a form.
Trigger	Adds a trigger to a form.

Using the Arrange Menu

The Arrange menu provides options for arranging the objects that comprise the form.

Arrange		<u>T</u> ools	Manag
	Align	n	•
	Spac	e	•
	Cent	ær in Pag	ge ト

Option	Description
Align	Lets you align objects by their left edges, right edges, centers, tops, bottoms, and middles.
Space	Lets you space objects evenly across the form or evenly down the form. You can also define custom spacing.
Center in Page	Lets you center objects on the page vertically or horizontally.

Using the Tools Menu

The Tools menu provides access to the following tools you can use while working with forms:

Тос	ls Ma	anage	Window	Help
	Selec	t Area	for Section	
5	Data Entry Check F9			F9
	Norm	alize		
	Disassociate with Template			late
	Save As Template			
	Validate			
	Readability Statistics			
	Task	List		

Option	Description
Select Area for Section	Lets you highlight an area of the form and turn those objects into a new section.
Data Entry Check	Lets you test the data entry and navigation rules assigned to the fields on the form.
Normalize	Lets you create a normalized AFP or Xerox Metacode file from the form.

202

Option	Description
Disassociate with Template	Lets you disassociate this form from the template assigned to it. When disassociating a template, only the template name reference is removed. The system does not remove any sections that came from the template.
Save as Template	Lets you save this form as a template. For more information, see Using Form Templates on page 225.
Validate	 Lets you run a Form Validation Report on this form. This report can tell you Whether sections referenced in the form (FAP files) exist in the library If the sections defined in the form have assigned recipients Any sections with assigned recipients and a copy count of zero Any sections that contain text areas or multiline text fields marked as Can Grow, but the Can Grow attribute is not specified at the form level
Readability Statistics	Lets you generate readability statistics for the form. For more information, see <i>Generating Readability Statistics</i> on page 222.
Task List	Lets you view the task list for this form.For more information, see Using the Task List on page 393.

USING THE WORKSPACE MENU

The workspace area is the area to the far left of the screen. From the workspace, you can open different modules within Documaker Studio. It shows which resources are...

- Checked out (green check mark) by you
- Checked out by another user and you would only have read-only access to (red check mark)
- Open in read-only mode or have never been checked into the library

Workspace # ×				
🧿 Libr				
	olication			
🗾 Con				
	Forms Susiness applic			
	BOSINESS AFFLIC			
	Paragraph Lists			
	Paragraphs			
	Graphics			
÷ž	New			
垣	<u>O</u> pen			
<u></u>	<u>S</u> ave			
	Save <u>A</u> s			
	Check In			
	Check Ou <u>t</u>			
	<u>U</u> nlock			
	Drop			
	D <u>e</u> lete			
	Preview			
	Properties			
	Scan For Locked Eiles			
	E <u>x</u> pand All			
	Co <u>l</u> lapse All			
	<u>S</u> earch			

Option Description

option	Description
New	Use to create a form.
Open	Use to open a form.
Save	Use to save an opened form.
Save As	Used to save an opened form with another name.
Check In	Use to check in a form that has been checked out. This saves your changes.
Check Out	Use to check out a form that is in the library.
Unlock	Use to unlock a form that is open when you want to release it back to the library without saving changes.
Drop	Use to temporarily remove a form that appears in the list if it is a library item or permanently remove from the list if it is not a library item. Unlock or check in permanently removes a library member from the list.
Delete	Use to delete the highlighted item.
Preview	Use this option to see what the form will look like when printed.
Properties	Use to display properties of the form.
Scan for Locked Files	When someone checks out a file, Studio locks it to prevent other users from working on it at the same time. This option lets you see in the Workspace tree which files are currently locked.
Expand All	Use to display all items on the Workspace tree. This includes top-level items such as Libraries, Application, and Content, second-level items such as Forms, Sections, and Graphics, and any files currently checked out.

Option	Description
Collapse All	Use to display only the top-level items on the Workspace tree, such as Libraries, Application, and Content.
Search	Use to display the Find window so you can search for text in the Workspace tree. For instance, you can use this option to find the name of a specific section or graphic.

USING THE TOOLBAR

The toolbar is useful because it serves as a quicker route for performing functions listed on a menu.

Standard toolbar icons

Shown below are the toolbar icons that are always available. The icons are listed as they appear, from left to right.

💽 🗅 🕼 🖨 🖬 🖳 🔸 🖻 🗂 🖉 🔍

lcon	Name	Description
	Workspace	Shows or hides the workspace pane.
<u></u>	New	Displays the Create New widow so you can create an object.
	Open	Displays the Open File window so you can open or create a file.
	Save	Saves the open file.
U	Print	Prints the current object.
6	Libraries	Opens the master library.
	Test Scenarios	Displays the Open File window so you can select a test scenario.
*	Cut	Removes an object and places it on the clipboard.
8	Сору	Copies an object and places it on the clipboard.
	Paste	Places an object from clipboard onto the current file.
	Undo	Reverses your last action

lcon	Name	Description
2	Redo	Reverses last undo.
0	Help	Displays the Help window
*	Zoom	Zoom in

Form toolbar icons

Shown below are the toolbar icons that appear when you are working with forms.

lcon D	escription
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P	Turns on auto lasso
	Lets you test entering data onto a form.

These icons let you align objects. See also the Arrange menu.

医杀骨带肉曲	IM I 🔁 🖶 🖶
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lcon	Description
	Aligns the left edges of the selected objects.
	Aligns the centers of the selected objects.
-	Aligns the right edges of the selected objects.
	Aligns the tops of the selected objects.
	Aligns the middles of the selected objects.
<u>uin</u>	Aligns the bottoms of the selected objects.
i (e)	Space selected items evenly across.
1	Space selected items evenly down.

lcon	Description
۲	Displays the Custom Spacing window so you can specify custom spacing intervals.
	Centers the selected objects horizontally on the page.
	Centers the selected objects vertically on the page.

CREATING A FORM

It is possible to create an empty form in the Form manager. You can create a new form with either no sections added or with a section name that does not yet exist in the library. When you do this, you will see a message in your Status bar, such as the one shown here:

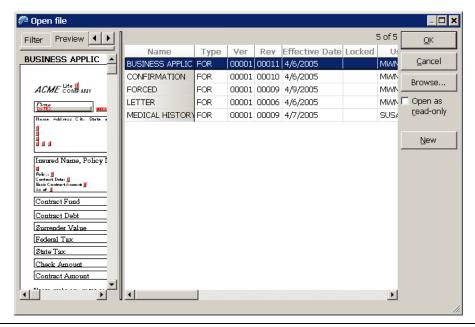
Error: Platform error: Error loading FAP, Empty_Section.FAP

This indicates the section cannot be found in the library.

It is, however, best to build your forms after your sections have been created or brought into the workspace's library. This way the Form wizard can help you build a form with sections in the body and headers and footers where applicable.

So, to create a form, follow these steps:

1. Double click Forms. The Open File window appears. This shows a list of existing forms.





You can also right-click Forms and select New, then click OK on the Forms window.

2. Click New on the Open File window to create a New form. The Form Wizard -Select Header window appears. This wizard helps you select the sections which will comprise the header, body, and footer of the form.

AME APP APF AUT	Use this page to select the desired header sections from the library. You may add one or more sections from the library. If necessary, you can change the order of selected sections by clicking the 'Move Up' or 'Move De	
	32 of 32	AMERGEN MARKETING v1.7 1/ 1/1980
AME APP APF AUT	Name Type Ver Rev Effective DateLd	
APF APF AUT	IERGEN MARI FAP 00001 00007 1/1/1980	Special Offer for Amergen (
APF	IERGEN RV FAP 00001 00001 1/1/1980	
AUT	PLIC11 FAP 00001 00006 1/1/1980	
	PLIC21 FAP 00001 00002 1/1/1980	
	JTO 25 TO 50 FAP 00001 00001 1/1/1980	
	TO OVER 50 FAP 00001 00001 1/1/1980	
Use the buttons to add, remove, and rearrange the sections you select for the header, body, and footer portions of the form.	tted Header:	
	Add Remove Move Up Move Down	

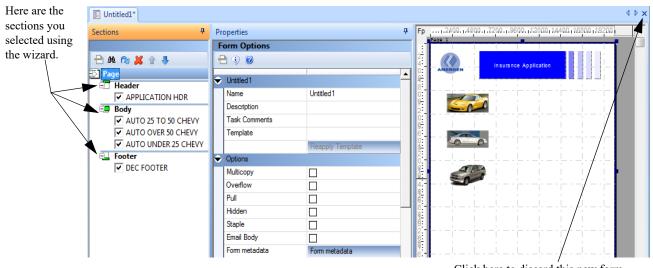
3. Scroll through the list of sections to select the sections you want to comprise the header on this form. The Preview pane shows you what each section contains.

Click Next when finished or to skip the selection of a header. The Form Wizard - Select Body window appears.

4. This window is just like the Select Header window except here you select the sections that will comprise the body of the form. Scroll through the list of sections to select the sections you want to comprise the body of this form.

Click Next when finished or to skip the selection of body sections. The Form Wizard - Select Footer window appears.

This window is just like the Select Header and Select Body windows except here 5. you select the sections that will comprise the footer of the form. Scroll through the list of sections to select the sections you want to comprise the footer of this form.



Click Finish when finished or to skip the selection of a footer. The Form wizard shows you the result of your selections.

Click here to discard this new form without saving it.

6. To finish defining the form, make the appropriate entries in these fields:

Field	Description						
Name	Enter the form name. You can enter up to 100 characters. This name appears on the Form Selection window in Documaker Desktop.						
Description	(Optional) Enter a description of the form. You can enter up to 100 characters. This description appears beside the form name when you are working with Groups. It also can help Documaker Desktop users make sure they have the correct form.						
Task Comments	Click the ellipsis button to display the Task Comments window and enter any comments you want associated with this form. For instance, you could use this property to enter a to do list of tasks for this form. Your entries appear on the Task List or Finishing Report.						
Template	Click the 🗐 button to display the Open File window and select the template you want to associate with this form.						
Multicopy	Check this field if more than one copy of the form can be used for a transaction. This only affects Documaker Desktop.						
Overflow	This field is for legacy use.						
Pull	Check this field if the form is manually inserted into the form set as needed — there is no electronic section. This only affects Documaker Desktop.						
Hidden	Form is hidden from view in the entry environment but data can be embedded on the form for later use.						

Field	Description
Staple	Use this field to indicate whether the form should be stapled. Forms on certain Metacode, PostScript and PCL printers can be stapled.
	Note: Xerox printers ignore certain PostScript commands (duplexing, tray selection, staple) if they are issued when printing on the back side sheet of a page.
	In order to issue the proper duplex, tray selection, and staple commands (and have the printer act appropriately on these commands), logic is added into the PostScript driver to add dummy sheets when necessary.
Email Body	Indicates whether the form is to be included in the email body or attachment for email print (EPT). When enabled, the form is included in the email body and excluded from the email attachment. When not enabled, the form is excluded from the email body and included in the email attachment. Only the EPT driver looks for and responds to the email body option.
PDF Attachment	Check this Field to embed an external PDF into the current transaction. If PDF is the destination print, then the attachment would be stitched into the PDF. If a different output is desired, like HTML or some other physical print, then a blank page would be display instead of the PDF attached.
Attachment Map	This Field will be populated once the XDD mapping is done for the PDF Attachment.
Form metadata	Use this field to records information about this form. This information can serve whatever purpose you choose. When you click the Form Metadata button, the Form Metadata window appears. Enter a name for each item and then enter the data you want to assign to that item. Keep
	 in mind Attribute names must be unique within the form. You can use the same attribute name on different forms, but within a single form, each attribute name must be unique. Attribute names cannot include semicolons (;), backslashes (\), equals signs (=), or two pipe symbols (). You can use underscores (_), hyphens (-), and dashes (—), and periods or full stops (.). Attribute values can contain all characters except two pipe symbols () and
	 semicolons (;). You cannot use a pipe symbol () as the first character in a name or value. You cannot enter more than 1024 characters for the value.
	• The names <i>Category</i> and <i>Key3</i> are reserved and can be assigned a special meaning for legacy tools (but not Studio) in future releases or patches.
	These user-defined attributes are neither required nor validated by Studio — except for the naming conventions and value assignments noted. You determine the purpose of each name/value metadata pair and where it will be used.
Size	 Choose the desired paper size from the pick list. Only the most common are listed: Letter - prints on default paper size (8.5 x 11) Legal - prints on legal paper (8.5 x 14) A4 - prints on standard European paper (210mm x 297mm) Executive - prints on executive paper (7.25 x 10.5)
Orientation	Choose from portrait or landscape. The default is Portrait.
Paper Stock	Choose the type of special paper stock you want for this form. The default is None.
Mobile: Omit	Select this check box, if you do not want the form to be included in the Mobile Output.
Mobile: Context	Select this option to pick an existing predefined context tag or create a new context tag dynamically for that particular object.

Field	Description
Recipients	 Studio shows you the names of the recipients defined by the Recip_Names INI option. For each recipient, you can specify whether the recipient should receive: One copy Two copies Three copies A number of copies set via DAL (if not overridden by a trigger) A number of copies set via a GVM variable (if not overridden by a trigger) Eligible
	The recipient is not eligible to receive copies of this form.

Note This option requires Documaker Mobile. If you have not purchased and installed Documaker Mobile the required mobile options will be disabled. To purchase Documaker Mobile, visit My Oracle Support website or contact your Oracle Sales representative.

- 7. To save the form, choose File, Save. Once you have saved the form, you can check it into the library using the File, Check in option.
- **Note** You can use the icons at the top of the option area to save the changes or insert a section from the library or disk.

To define section-level triggers, see *Setting Up Section Triggers* on page 233 and *SetRecip Table Options* on page 241.

Pagination

Keep in mind that the positioning information you establish is Studio is reapplied to the form each time changes in a text area cause the dimensions of the section to change. You can, however, use the AutoPagination option to disable automatic repagination:

```
< Control >
AutoPagination = Yes
```

Option	Description
AutoPagination	Enter No if you do not want the system to automatically re-paginate when image dimensions change. The default is Yes.

Keep in mind...

- The system will honor positioning information designed into the form via Studio. Positioning information is stored via SetOrigin rules.
- If a form consists of multiple sections on a page, but those sections comprise more space than defined for the page size, the system automatically paginates that page and moves the sections that did not fit to a new page.
- If a section grows to push another section such that its positioning rule causes it to encroach on a defined footer or the bottom of the page, that section is moved to the next page and the entire form will be have the SetOrigin rules reapplied.

- When designing a form, avoid having a footer section that uses a relative position. This ultimately means there can only be one section on the page that is not a header or footer. Typically, Footers should be placed using a rule that makes sure it has an absolute position set to the bottom of the page.
- When sections shrink (due to text area shrinking) a section from the next page may be brought back to the current page. In other words, sections can not only flow to the next page, but they can come back when space allows.
- Remember that the positioning (SetOrigin) defined in the form is applied. So although there may appear to be a space large enough to hold a section, you also have to account for any additional adjustments applied by the SetOrigin rules.

For example, suppose you have a section that is two inches in height, but the SetOrigin rule for that image specifies a relative placement 1/2 inch from the previous section. In this case, $2\frac{1}{2}$ inches of space is required for that section to fit on the page. If there is less than $2\frac{1}{2}$ inches remaining before encountering a footer section or the bottom of the page layout, then that section moves to the next page. Please see *SetOrigins* on page 217.

• Sections can only flow to and from pages that were created during pagination. If a page was specifically designed into the form via Studio, then no sections will move onto that page from a prior page. Sections can only move to or from pages that were created by overflowing their defined page.

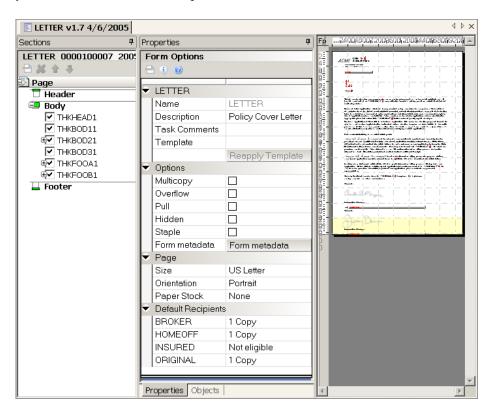
MODIFYING FORMS

Follow these steps to open and modify a form:

1. Double click Forms. The Open File window appears:

ኞ Open file								_ 🗆 🗙
Filter Preview						:	5 of 5	ОК
BUSINESS APPLIC	Name	Туре	Ver		Effective Date	Locked	U	
	BUSINESS APPLIC				4/6/2005		MWN	<u>C</u> ancel
	CONFIRMATION	FOR	00001	00010	4/6/2005		MWN	Browse
ACME COMPANY	FORCED	FOR	00001	00009	4/9/2005		MWN	brontoon
Done Internet	LETTER	FOR	00001	00006	4/6/2005		MWN	
Name, Add reco, City, State, a	MEDICAL HISTORY	FOR	00001	00009	4/7/2005		SUS/	read-only
Insured Name, Policy I Build context from # Contract Fund Contract Fund Contract Debt Surrender Value Federal Tax State Tax Check Amount Contract Amount	1							New
	·	_						

2. Select the form you want to work with and click Ok. Studio displays the form you selected. Here is an example:



MEDICAL HISTORY USING	Form Section Options				
🕂 🕰 📚 🐇	🗶 금 🗲 🤑 🔘				
Page Filler	MEDHEAD1				
MEDHEAD1	Name	MEDHEAD1	- II		
MEDHEAD2	Options	Entry and print	Ш		
Body			Ш		
HEDBODY1	Size	Custom			
E Footer	Orientation	Portrait			
MEDFOOT1	Duplex	Front Page			
	Tray	Default	Ш		
	✓ Options		Ш		
	Printer resident		Ш		
	Background section		Ш		
	Copy on overflow		Ш		
	Can grow and shrink		Ш		
	Embedded		Ш		
	Stub		Ш		
	✓ Position		Ш		
	Left type	Abs - Absolute Page Position.	Ш		
	Left	600 FAPs	Ш		
	Top type	Abs - Absolute Page Position.	Ш		
	Тор	720 FAPs	Ш		
	Store origin name				
	Fixed				
	From Page Bottom				
	Must Fit				

The first panel shows a tree view of the sections that comprise the form. The sections are segmented by page and whether they are designated as a *header* or *footer* sections.

The next panel shows you the property settings for the active object. This is where you add or modify the property settings.

The final panel includes a preview of the form that shows the default layout of the sections. You can scroll through this panel to see all the pages defined for the form.

If you click the Objects tab. The window changes to show you the objects that comprise the section.

Objects 🕈
APPLIC11 0000100007 19800101
🗘 💥 🜒 🕨 🏦 🕸
Page 1
🗉 Boxes
🕺 Fields
💷 Graphics
acme(1060, 1614)
🖷 Lines
(10430, 1751)
(10430, 1820) (3325, 20675)
🖷 Text Areas
⊞T Text Labels
<u> </u>
Properties Objects

3. When you finish modifying a form, select the File, Check In option to save the form and check it into the library. The Check In window appears.

🌮 Check In	×
Name:	LETTER
Description:	Acme Letter
Version:	00001 🗌 Increment version
Revision:	00007
Effective date:	4/ 6/2005
Mode:	PROD
Status:	PASSED
Class:	GA
Project:	P003
OK	Cancel

- 4. Set the library attributes that apply to the form and the changes you made.
- **Note** To learn more about the Mode, Status, Class, and Project fields see *Managing Resources* on page 559.

This window shows you the previous library settings for this form and lets you set new values. You set up the various modes, statuses, classes, and project codes elsewhere, but this window lets you choose the appropriate entry from predetermined lists.

The revision number is automatically set for you. When you specify that you intend to create a new version of the document, you can then enter a new effective date for that version.

5. Click Ok to check the document back into the library and make it available for others sharing the same resources.

DROPPING A FORM

Dropping a form does not delete the actual form (FOR) file; it just removes it from the workspace tree. If the form being dropped has been checked out of the library, you will be prompted to unlock the file in addition to dropping it. Yes will unlock the file and drop it from the workspace tree. No will leave the file locked, but will drop it from the workspace tree. Changes saved to a form prior to dropping it will remain in effect. To drop a form, select the form in the workspace tree, then select Drop from the right-click menu. You can also drop forms or other resources from the Workspace List dialog, The Workspace List dialog can be access from the Manage menu, then selecting Workspace then List Workspace. or from the Home tab, then Manage, Workspace.

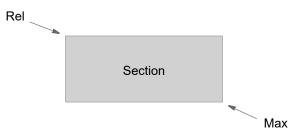
SETORIGINS

The use of the SetOrigin rule can work two ways in the Form manager in Documaker Studio. When you place sections on a form, either manually or using the Form Wizard, Studio marks the physical position of each section on the form page. These positions are the SetOrigins of those sections. You can either manually move sections around on the form in the form work area, or you can also add sections to the form, then change the Position options to force specific print scenarios.

SetOrigin rules position multiple sections on a form. Building a form using more than one section is known as working with *page segments*. Whenever a form is comprised of more than one section, each section becomes a page segment. The use of page segments is a three step process:

- 1. Designing sections to fit together on a page using the Sections manager.
- 2. Defining forms in the Forms manager and inserting sections into the form.
- 3. Positioning sections on the form in the work area. The system automatically assigns a form-level setorigin to the section, displayed when a section is selected in the Form page pane, as seen in the following example:
- **Note** An MRL converted from an earlier version of Documaker can contain section level SetOrigin rules. Do not simply delete these rules after conversion, as form level SetOrigin rules are not assigned until the form has been checked out and then checked back into the workspace library. If a form contains a form level and a section level SetOrigin rule, the form level SetOrigin takes precedence.

Commonly used SetOrigin parameters are Rel and Max, for the Relative and Maximum section positions on a form:



The table below lists all SetOrigin parameters:

Secongin operator	Description
abs	Absolute page position
rel	Relative to last section top left coordinate
max	Relative to last section maximum edge
mpg	Relative to any section at the maximum edge
t2t	(top to top) Current section top relative to last section top, similar to the rel option
t2b	(top to bottom) Current section top relative to last section bottom, similar to the max+ option

SetOrigin operator Description

SetOrigin operator	Description	
b2t	Current section bottom relative to last section top, similar to the max- option	
b2b	Current section bottom relative to last section bottom	
121	(left to left) Current section left relative to last section left	
l2r	(left to right) Current section left relative to last section right	
r2l	(right to left) Current section right relative to last section left	
r2r	Current section right relative to last section right	
ctr	Current section x,y dimensions centered on last section x,y	
store origin name field	Place a section on the form in relationship to a section other than the previous section	
Fixed	Set to anchor or fix the section position	
From Page Bottom	Origin is applied from the page bottom.Sections marked as From Page Bottom have their origins applied first, starting from the last origin on the page moving up the page	
Must fit	Section cannot cause overflow. If the section cannot fit on the page, the section will not be printed. The page bottom will be defined as the highest footer section or section with a from page bottom (FB) origin. within the width of the section	

SetOrigin operators are not case-sensitive. You can use them in any combination, and to put space between sections, you can also use the + or - options as well. These will increment space between sections on a page based on the default unit of measurement set up in Studio.

Keep in mind that a section marked with absolute positions (ABS) cannot move, or float, on a page. This option works best with headers and footers that are going to copy onto other pages during overflow.

SETTING HEADER AND FOOTER PRINT OPTIONS

Use the Print Control options to specify how you want a section to print in an overflow or duplexing scenario. Typically, these options are used to specify how sections that contain headers or footers print. To set print control options, follow these steps:

- 1. Open the form in Studio and double click the section for which you want to set print controls.
- 2. Make sure the Copy on Overflow box is checked for the section.

Properties 🕈	
Form Section Options]
📕 🗄 🗡 🔹 🕘	
▶ SUM111]
▶ Page	
✓ Options	
Printer resident	
Background section	
Copy on overflow 🗹 <	<u> </u>
Can grow and shrink	
Embedded	You must check this box for these
 Print Control 	Control options to appear.
Not First	
Last Only	
Not Last	◀───
Back Only	
Front Only	
Position	
Information	
Section rules	4
Field Overflow Defaults	
Section Recipients	
	ļ
Properties Objects	2

3. Choose from these options to control when the section prints:

Option	Description
Not First	Do not print the first occurrence of this section.
Last Only	Only print the last occurrence of this section.
Not Last	Do not print the last occurrence of this section.
Back Only	If it is a duplex page, print only on the back (even-numbered) pages. If it is a simplex page, do not print.
Front Only	If it is a duplex page, print only on the front (odd-numbered) pages. If it is a simplex page, print on all pages.

You can select multiple print options, such as Not Last and Back Only. If an occurrence of this section was on all pages, those selections would tell Documaker Server to print the section on all back pages, except for the last page of the form.

Note When you select multiple print options for a section, all options must be true for the section to print.

Keep in mind...

- All simplex pages are considered front pages.
- The print control options do not determine the page duplex settings. For instance, if you select the Back Only option on a simplex form, the section is never printed.
- When you choose Last Only, Not Last, or Not First, it affects the first and last occurrence of the section in the form.
- For pagination, the header size is based on the largest possible header. Footer size is based on the largest possible footer.
- During processing, Documaker Server does not repaginate the form set to accommodate varying size header and footer images.

Page numbering is turned on by default. If you set the PageNumbers INI option to No to turn off page numbering, the system ignores your header/footer print options.

Creating Headers and Footers for Multipage Sections

To create headers and footers for multipage sections, follow these steps:

1. Open a multipage section.

Note For best results, define the Multipage section to be smaller than a full page or else leave white space at the top and bottom of the page to allow for the placement of the header or footer. Also keep in mind that the way you design the Multipage section dictates the type of origin rules you would apply to the header, footer, and the Multipage section. Please see *SetOrigins* on page 217 for more information on origin rules.

- 2. Add headers and footers to the first page of the multipage section.
- 3. Open the form in which the section resides and select the section. In the Form Selection Options, check the Inherit Overflow field.

Properties 7					
Form Section Options	Form Section Options				
🞽 🖶 🗲 🦻 🎯					
✓ Options	_				
Printer resident					
Background section					
Copy on overflow					
Can grow and shrink					
Embedded					
Inherit Overflow					
✓ Position					
Left type	Abs - Absolute Page Positic				
Left	0 FAPs				
Top type	Abs - Absolute Page Positic				
	A F I P				

Option	Description
Inherit Overflow	Check this box if the headers and footers on the first page of a multipage section should be copied onto the subsequent pages of the multipage section.

With this setting, during processing Documaker Server will add the copy on overflow sections defined on the first page to all subsequent pages of the multipage section.

Note If the Inherit Overflow option is checked and you remove the check mark, the copy on overflow sections are removed from subsequent pages of the multipage section.

FORCING PAGE BREAKS IN SUBFORMS

Use the Force Page Break form-level option to force a page break on the second occurrence of a subform, within the current form or parent subform.

Pr	operties	
F	orm Subform Options	
2	(🕂 🗲 ()	
÷	Subform begin	
	ID	FORM 1
۶	Page	
۲	Options	
	Minimum Sections	
	Stay together	
	Force page break	

Studio treats any header or footer sections added to the subform as group headers and footers for the subform.

Option	Description
Minimum Sections	Reserved for future use.
Stay Together	If you check this box for a subform, the system will not split the subform between pages unless the subform is larger than the calculated page size (page size minus headers and footers). If the subform is larger than the page size, the system splits the subform. Note: The Stay Together check box is only honored by newer standard pagination of subforms. If you need to use the Group Pagination rule(s), then you would have to use the "StayTogether" method that is affiliated with those rules.
Force Page Break	Check this box to force a page break on the second occurrence of the subform, within the current form or parent subform.

You add headers and footers to subforms just as you would to a normal form. In addition, you can also specify the print control options. Keep in mind, however, that if you select the Not First, Not Last, or Last Only print control option, your selection affects the subform, not the form.

Note The Force Page Break option is not supported by the GroupBegin rule's GroupPagination function. It is supported by the UpdatePOLFile and PaginateAndPropagate rules.

Please refer Rules Reference Manual for more information on GroupBegin rule.

GENERATING READABILITY STATISTICS

Studio lets you generate readability statistics, including Flesch scoring, when you are previewing a form or section in Library manager or when working with sections, forms, tests, and reports.

Note You can also generate readability statistics when working in Documaker Desktop or the WIP Edit plug-in.

.In Studio, Flesch scoring considers information in text areas and multiline text (MLT) fields. Since the Flesch scoring formula works on sentences, text labels are ignored. Sentences are typically entered within a text area or multiline text field but generally not in a text label.

Flesch/Flesch–Kincaid Readability tests are designed to indicate how difficult a reading passage is to understand. Readability is based on factors such as the number of words in sentences and the number of letters or syllables per word.

Higher scores indicate material that is easier to read; lower numbers indicate harderto-read passages. Here is the formula for the Flesch Reading Ease Score test:

$$206.835 - 1.015 \left(\frac{\text{total words}}{\text{total sentences}}\right) - 84.6 \left(\frac{\text{total syllables}}{\text{total words}}\right)$$

where total syllables/total words = average number of syllables per word (ASW) and total words/total sentences = average sentence length (ASL).

Note This test is designed for English. The scores may not be valid when you run the test on non-English text.

Readability with Forms and Sections

When working with a form or section or running a test scenario, you can generate readability statistics by right-clicking and choosing the Readability Statistics option.

When running a test scenario, this option is only available when sections and forms are displayed as part of the test run. When generated during a test run, the readability statistics are based on all of the forms and sections in the form set.

If you are working in a specific text area, right-click, then choose this option from the Tools menu:

ſ	Spell Check					
		Spelling Options				
	Grammar Check					
		Grammar Options				
6		Readability Statistics				

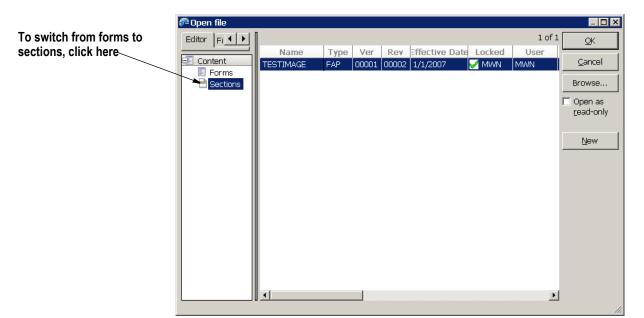
Printing the Readability Statistics Report

You can also choose the Readability Statistics Report from the Report menu. This report is available for both forms (FOR) and sections (FAP) files.

When you click Next, the Choose Files window appears:

Choose Files		×
Use this page to cho	oose the Form files to run your report.	
Browse	Clear Grid	Delete Row
Source	File Name	Ver/Rev
		1
	< <u>Back</u> Next > Cancel	Help

Click Browse to display the Open File window and select the forms or sections for which you want readability statistics generated:



Once you have chosen the forms or sections you want included, click Next to continue and then Finish to generate the report. Here is an example of the Readability Statistics Report:

🗎 TESTIMA	GE v1.2 1/1/2	007	🗾 Untitleo	12* 🛛 🔯 tes	t §∢⊧×
Print	Print All	<	<< >	>>>	Wizard
Source: TEST	IMAGE.FAP				
Counts					
Words					16
Characters					63
Sentences					2
Syllables					20
Averages Words per Ser	ntence				8.0
Characters pe	r Words				3.9
Readability					
Readability					5.7
Flesch Readin	ig Ease				93.0
Flesch-Kincai	d Grade Level				2.3
TESTIMAGE.FA	p				
F.					

USING FORM TEMPLATES

Studio lets you create templates for the forms you create with Studio. You can use templates to more easily implement and maintain document standards while also speeding the process of creating new forms. For instance, you can use templates to make changing your company's name or logo easier.

To add templates, use the Template manager which you can start from the Manage menu.

Note Templates are stored as TPL files.

Using Template Manager

Use the Template manager to create and maintain your templates. A form template contains headers and footers. You add body sections when you create the actual form.

When creating a template, the Form wizard prompts you to select sections for the template's header and footer.

	For	m Wiza	rd - Selec	t Heade	er												×
		_	Use this pag	e to selec	t the desi	red head	er sections fi	rom the	library.								
			You may add change the d	d one or m order of s	iore secti elected se	ons from ections by	the library. 1 / clicking the	(fineces 'Move L	isary, you Jp' or 'Mov	can rei e Dowr	move a se n' button.	ection by	clicking ti	he 'Remo	ve' buttor) or	
	Γ	Sections								ך P	review						
			lame	Туре	Ver	Rev	Effective	Date	Locke		ACME	HEADE	R v1.1	1/1/	2007		
		_	FOOTEP		00001		1/1/2007		_				Ac	me Head	ler Comp	any	
			E HEADEF	FAP FAP	00001		1/1/2007		_								
		GOOL		FAP	00001		1/1/2007										
		TEST	IMAGE	FAP	00001		1/1/2007		🖌 MW								
/		•							•								
this		Selected	Header:						5 of 5								
ck		ACME H	HEADER v1.1	1/ 1/200	7				_								
\backslash																	
		Ac	id F	Remove			Move Up	Move	e Down		•					Þ	
	L																

You can see a preview of the section by clicking on it.

Double click the sections you want to add them to the Selected Header list area. You can also use the Add button to add selected sections to the Selected Header area.

Click Next to display the Footer window and select the sections for the template's footer.

Select the header from list of sections, then cli Add.

	orm Wizard - Select Footer	×
	Use this page to select the desired footer sections from the library. You may add one or more sections from the library. If necessary, you can remove a section by clicking the 'Remove' bu change the order of selected sections by clicking the 'Move Up' or 'Move Down' button.	utton or
	Sections Preview	
	Name Type Ver Rev Effective Date Locke	
	ACME FOOTEP FAP 00001 00001 1/1/2007 ACME HEADER FAP 00001 00001 1/1/2007 Acme Footer Co	mpany
	DAILY FAP 00001 00001 1/1/2007	
	GOOD FAP 00001 00001 1/1/2007	
	TESTIMAGE FAP 00001 00002 1/1/2007 ✓ MW	
Like you did for the header,		
just select the footer from		
this list of sections, then	Selected Footer: 5 of 5	
click Add.	ACME FOOTER v1.1 1/1/2007	
	Add Remove Move Up Move Down	
	Add Remove Move Up Move Down	•
	<back nextr=""> Finish Cancel</back>	Help

Click Finish to close the Template wizard and open Template manager.

Set the header and footer section's options, rules, triggers, recipients, and so on to have the values you would expect a form derived from this template to use.

Sections 7	Properties	ą	
	Template Sec	tion Options	
🖶 🗶 🕆 🦊	🗶 🖶 🥖 🛞		Acme Header Company
🖅 Header			
ACME HEADER	Name	ACME HEADER	0: 9:
🗖 Body	Options	Entry and print	
🖳 Footer	Protect temp	la 🗌	
ACME FOOTER	🗢 Page		
	Size	Custom	
	Orientation	Portrait	
	Duplex	Default	
	Tray	Default	
	♥ Options		
	Same page		
	Printer reside	en 🗌 📃	
	Background	s 🗆	
	Copy on ove	rfl 🔲	
	Can grow		
	 Position 		
	Left type	Rel - Relative to la	C. T. C. T. C. Anna Bacture Champing
	Left	1197 FAPs	
	Top type	Max - Relative to I	
]	┝┷╼╼╼		

The Template Section Options include the Protect template item field:

This option lets you prevent users from changing the settings you choose for this template object.

nt	÷	ACME HEADER	-
		Name	ACME HEADER
is		Options	Entry and print
		Protect template item	

This option is available for each section that makes up the header and footer.

If you check the Protect template item field, the person using the template to create a form cannot delete or change any of the attributes on that section in the form.

If you protect a section in the header or footer area, then the user will not be able to add any other headers (or footers) into that area on the resulting form.

Although you can define a template that contains more than one page, it is probably not necessary for most forms. If, however, you flag template sections as Copy On Overflow, those sections are automatically copied to new pages created on the resulting form.

Sections not set as Copy On Overflow are included on the corresponding page of the resulting form, but are not included on subsequent page additions.

Using the Form Manager wizard with templates

To make it easier to use templates, a creation wizard automatically starts when you begin to create a new form. If there are templates in the library (TPL resources), the first page of the wizard lets you select one.

Note If in your user setup, the Limit to using Templates option has been turned on, Studio requires you to use a template when you create a form. Check with your system administrator for more information.

When you create a new form based on a template, you essentially get a copy of the defined template sections. From this starting point, you can add and arrange additional form sections to complete the form.

If the template sections have been protected, you cannot change any of the attributes or options related to those sections. In addition, if the header area or footer area contains a protected template section, you cannot add sections in those areas.

If the template sections were not protected, you can modify attributes or even remove objects from the form. If, however, you reapply the template later, the objects you deleted will reappear.

Here Studio shows you the name of the template used to create the form, if one was used.

Γ	Form Options					
	 ₽ ≠ ₽					
	÷					
ľ		Name				
		Description				
		Template	LETTERTEMPLATE			
			Reapply Template			

If a form is created from a template, this information appears on the Form Options window. You can use the Reapply Template button to update your form with the latest definitions from the template.

Note that when you reapply a template, this can rearrange, add, remove, and alter the previous template items. In addition, if the previous template definition did not protect the header or footer sections and the new template does, any sections in those areas that are not part of the template are removed.

If you reapply a template and body images are involved, the templated body images move to the top of the body list. This is in keeping with the original default layout of the template had you created a new form.

Finally, if your form contains more pages than the template defines, the pages that exceed the template definition will inherit only the Copy On Overflow template sections. If there are no such sections in the template, your additional pages are not altered.

Saving a Form as a Template

You can save a form as a template by right-clicking and selecting the Save As Template option or by selecting Save As Template from the Tools menu. The Save As Template window appears.

	🌮 Save As Template	×
	Name:	
	C:\FAP\mstrres\acme\FORLib\LETTER.TPL	
	Include/Exclude	
Click here to also check the template into the library.		
	 Protect all template items Check template into library after saving 	
	Cance	1

You can select or deselect items by clicking on the top item in the tree (or any other parent item).

You can flag all of the selected items as protected in the template by selecting Protect all template items.

Controlling Access to Templates

Via User manager, you can specify who can have access to the templates. You can set up the same attributes for templates as are set up for other resources.

System Administrator	Resources		ОК				
Jser	• •						
Settings Ibrary Resources Rights Projects	Application Manager Form List Manager Form Manager Section Manager Paragraph List Manager	Full Access Full Access Full Access Full Access Full Access	Cancel				
	Paragraph Manager Style Manager	Full Access					
	Template Manager Graphics Manager Trigger Manager	Full Access Full Access Full Access					
	Data Extract Manager Common Field Manager	Full Access Full Access					
	Dictionary-Rule Manager Definition Lookup Manager	Full Access Full Access					
	Font Manager Deployment Manager	Full Access Full Access					

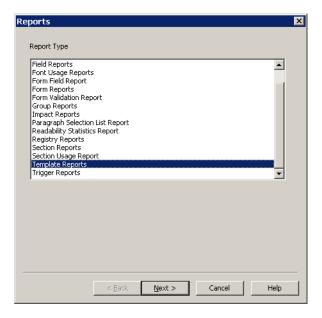
Option	Description
Full Access	Choose this option if you want the user to check out templates and modify them.
No Access	Choose this option if you want to prevent the user from checking out templates. If you choose this option, the user cannot open Template manager.
View Only Access	Choose this option if you want to prevent the user from checking out templates, but allow the user to open Template manager in read-only mode and view the contents of the template.

You can also specify whether a user must use a template when creating a new form by checking the Limit to using Templates field. This field is available under Rights:

ኞ Security Wizard - User:M	WN	×
System Administrator User Settings Library Resources Rights Projects	Rights Image: Second strain of the second strain	OK Cancel Apply All
Projects	Limit to using templates	
		1

Library Manager and Reports

Templates are a resource type you can select, filter, and report on. Since templates are essentially forms, the information provided on these resources is similar to that for forms.



Example 1: Add the Medical History Form

If a transaction has enough medical history treatment records to fill more than one page, we want this form to grow to another page. This means we want this form to overflow, or repeat the Medbodyl section once for each Treatment record it finds for a given transaction. We will look at the Overflow settings later. For now, we need to build the form so that we can repeat or reuse sections as stated in our implementation's requirements. (Please see *Example Form* on page 25.)

Step A:Add the Form in the Form manager

- First, open the Form manager. This example assumes that the sections that comprise the Medical History form (Medhead1, Medhead2, Medbody1, and Medfoot1, according to our implementation study) already exist in the workspace library.
- Using the wizard, select the FAP Medhead1 and Medhead 2 for the Header, Medbody1 for the Body and Medfoot1 for the Footer.
- If you click the words Header, Body and Footer one at a time in the Page pane, you will be able to select 1 Copy for each Recipient (Agent, Homeoffice, Insured).
- Next, click the actual Header section name, Medhead1. The main option we want to select here is Can Grow. This is because we have fields in the text of this header than can grow depending on the data that is placed in them at Documaker processing time, and we want the rest of the section to perform word wrapping around that data. (In other words, we have data fields in a *text area* on the form. Please see *Working with Sections* on page 248). Note that the Recipients should all have 1 copy count.
- Click Medhead2. This section only prints if the form grows to more than 1 page, so it prints for pages 2-end of the form. So first, we want to check Copy on Overflow, so that it will repeat as needed if our form overflows to more than 1 page.

Then, under the *Print Control* section, check Not First. Now Medhead2 will only be printed on any page of the form that is not the first page.

- Highlight Medbody1.Again, because of the use of text area data elements that are on the section, we want to mark 'Can Grow' for this section as well. Note that the Recipients should all have 1 Copy count as well.
- Last, click the Medfoot1 footer. Mark this as 'Copy on Overflow'. Note that the Recipients should all have 1 Copy count.

Step B:Add SetOrigins positions to Medical History form sections

- Select Medhead1 on the form page pane. This is a Header section, so that means we'd like it to remain in the same position on the physical page, whether it repeats on other pages or not. Its also the first section placed on the form, which means other sections will be placed relative to it, so its normal to mark a header's position as Absolute, or ABS. Use the ABS position operator for Medhead1's Left type and Top type. The Left and Top actual positions can be typed in (in inches, FAP units, or the unit of measurement set up in your Document View Options in the Settings for Studio), or defaulted to the value the Form manager calculates based on where you move the section in the form work area.
- Select Medbody1. This section needs to be placed relative to the Medhead1 section. Remember it will repeat for every treatment record. We would like the section to start printing at the same Left position every time, but we want it to print under the last section occurrence if it repeats. This could be done by using an ABS Left type, and a Max top type. (This is only 1 way to set this up, other operators could work here as well.)
- Select Medfoot1. This footer section needs to appear in the same place every time it prints as well, to prevent it moving up the page if treatment records (used on Medbody1) do not fill an entire physical page. Being a footer, its usually best to set this as a Left and Top ABS position, down at the bottom of the page. See below:

 Position 		1:				
Left type	Abs - Absolute Page Position.	0:				
Left	720 FAPs	2 4				
Top type	Abs - Absolute Page Position.					
Тор	25200 FAPs	i i	EQION	- 1 Page 100	Solicy Marchen 😡	LICYNUWBER KEYN
Store Origin Name			<u> </u>			

SETTING UP SECTION TRIGGERS

You can create triggers at both the form and section level. Section-level triggers are stored at the form level and specify the condition that would cause a section to be included (or triggered) with a transaction. Only set up section level triggers if the section's presence on the form is conditional. That means that every section in a form will not require a trigger.

Studio assumes you do not want to trigger any of the sections that comprise a form if the form-level trigger is false. Therefore, section level triggers are automatically ignored when the form-level trigger for the transaction being processed is false. For more information, see *Assigning Form Level Triggers* on page 184.

Note If you omit a form-level trigger, the system does not operate as efficiently since every section-level trigger must then be evaluated by the system.

DAL or Manual Trigger entries

There several types of triggers in Documaker Studio. Legacy Documaker users will often use what are called *manual triggers*. These triggers build a SetRecip table entry on the form or section. For more information, see *SetRecip Table Options* on page 241.

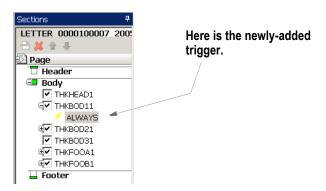
New users can begin building their system with DAL triggers. This also builds a SETRCTB entry, but this file contains scripting functions specific to DAL use. The DAL SETRCTB file is seen in the Triggers manager in the Application level of the workspace tree. Using DAL wizard in the Triggers manager requires the use of the Extract Data Dictionary, or XDD, as well. Writing DAL triggers using the Script View does not require XDD configuration.

The tables below specify which options pertain to manual vs. DAL trigger options. Trigger functionality, and its use in Overflow and other processes, is supported in either scenario. For more information, see *Triggers Manager* on page 189.

Note DAL stands for *Document Automation Language*. It is proprietary to Documaker, and is a flexible scripting language that can be used for triggering, customizing data elements, insert form objects, Entry form inclusion, and other functions. See the DAL Reference for more information.

Add a DAL trigger to a section

1. With a form open, highlight a section, then choose the Insert, Triggers option. You can also right-click and choose Add Trigger.



The Properties pane shows the properties for the trigger.

_	operties	4	1		ere a				
	OAL Trigger Options				or the		auit (AIWa	IJ
f	1 / I @			tr	igger	•			
÷	Trigger		4						
	Name ALWAYS								
	Task Comments								
÷	Advanced								
	Transaction codes								
	Occurrence Flag 1								
	Records on differe								
	Records per overf								
÷	Recipients								
	BROKER 1 Copy								
	HOMEOFF 1 Copy								
	ORIGINAL 1 Copy								
T	roperties Frigger Options			7					
1	Trigger Options	0.4=	anuel Trigo	_					
1	Trigger Options → ↓ ♥ Trigger Name	{Ma	anual Trigo	_					
T €	Trigger Options	{Ma	nual Trigo	_					
T €	Trigger Options	{Ma	anual Trigg	ger}					
T €	rigger Options 1 0 Trigger Name Task Comments Advanced Transaction codes Transaction codes	{Ma	ınual Trigo	_					
T €	rigger Options 1 0 Trigger Name Task Comments Advanced Transaction codes Search mask (True/False)	{Ma	anual Trigo	ger}					
T €	rigger Options 1 0 Trigger Name Task Comments Advanced Transaction codes Transaction codes	{Ma	nnual Trigg	ger}					
T €	rigger Options 1 0 Trigger Name Task Comments Advanced Transaction codes Search mask (True/False) Search Mask (counter) Search Mask (counter)		nnual Trigg	ger}					
T €	rigger Options 1 1 Trigger Name Task Comments Advanced Transaction codes Search mask (True/False) Search Mask (counter) Occurrence Flag		nnual Trigg	ger}					
T €	rigger Options 1 1 Trigger Name Task Comments Advanced Transaction codes Search mask (True/False) Search Mask (counter) Occurrence Flag Records on different first section Records on different first section		ınual Trigg	ger}					
T €	Trigger Options Trigger Name Task Comments Advanced Transaction codes Search mask (True/False) Search Mask (counter) Occurrence Flag Records on different first section Records per overflow section		ınual Trigg	ger}					
▼	Trigger Options Trigger Name Task Comments Advanced Transaction codes Search mask (True/False) Search Mask (counter) Occurrence Flag Records on different first section Records per overflow section Custom rule name		anual Trigg	ger}					
▼	rigger Options Trigger Name Task Comments Advanced Transaction codes Search mask (True/False) Search Mask (counter) Occurrence Flag Records on different first section Records per overflow section Custom rule name Custom rule parameters		anual Trigg	ger}					
▼	rigger Options Trigger Name Task Comments Advanced Transaction codes Search mask (True/False) Search Mask (counter) Occurrence Flag Records on different first section Records per overflow section Custom rule name Custom rule parameters Recipients	1	anual Trigg	ger}					
▼	rigger Options Trigger Name Task Comments Advanced Transaction codes Search Mask (rounter) Occurrence Flag Records on different first section Records per overflow section Custom rule name Custom rule parameters Recipients Recipient copy count	1	anual Trige	ger}					
▼	rigger Options Trigger Name Task Comments Advanced Transaction codes Search mask (True/False) Search Mask (counter) Occurrence Flag Records on different first section Records per overflow section Custom rule parameters Recipients Recipient copy count BROKER	1	anual Trige	ger}					

2. Use the properties to define the trigger:

Description

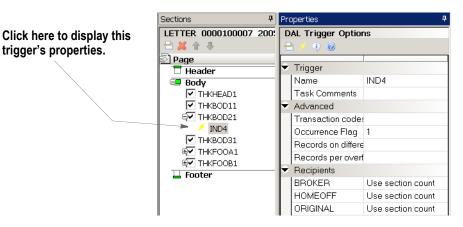
Trigger

Field

Field	Description
Name	Select a trigger from the list or select the Manual Trigger option to create a trigger.
Task Comments	Enter comments about this trigger. These comments will appear on the Task List. For more information, see <i>Using the Task List</i> on page 393.
Advanced	
Transaction Codes	By including one or more transaction codes in this field, you trigger a particular form (or section) only if the extract file record includes that Transaction Code.
Search Mask (True/ False) <i>(Manual trigger only</i>	Define the search criteria to use in determining whether this event should occur. If the search yields a result, a True result is returned. If the search finds no data, the trigger result will be False.
Search Mask (Counter) (Manual trigger only	Define the search criteria to use in determining how many duplications of this item to include in the resulting document. The trigger is applied once for each occurrence found by the search mask. If no matching data is found, the trigger result is 0 (False) and the item is normally excluded.
Occurrence Flag	 To use the search mask as a counter, set the Occurrence Flag to one (1). Use with the Search Mask (Counter), Records on Different First Section, and Records Per Overflow Section fields. (0=no overflow and 1=overflow) Performance issue flags in this field include: Master (M) form-level trigger flag Form (F) form-level trigger flag Subordinate (S) Section-level trigger flag
Records on Different First Section	Lets you indicate the number of records that appear on the first section before the data should overflow to a new section.
Records per Overflow Section	Lets you specify the number of records matching the search mask that will fit in the specified overflow section. If the value is zero (0) and the Occurrence Flag is set to one (1) with the Search Mask (Counter) field set, the system automatically sets this flag to one (1) to perform the overflow calculations.
Custom Rule Name (Manual trigger only	This field defines an alternate (custom) rule to execute on this manual trigger to determine its result. For most manual triggers, leave this field blank.
Custom Rule Parameters (Manual trigger only	This field defines the parameters for the rule named in the Custom Rule Name field.
Recipients	
Recipient Copy Count (Manual trigger only)	Use this field to specify the number of copies each recipient should receive.
(recipient name)	Click check box to indicate the recipient receives the number of copies you specified in the Recipient Copy Count field.

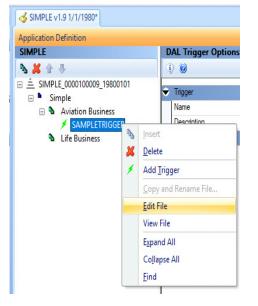
EDITING A TRIGGER PROPERTY

If you need to modify a trigger, highlight the trigger and then make any necessary changes to its properties.



EDIT / VIEW A TRIGGER

Users can right-click on a DAL trigger and choose to Edit / View from the tree.



These option are also available for GRP, FOR, PSL and Test Manager.

USING THE TRIGGER REPORT

You can use the Trigger Report to see which triggers have been referenced and which have not been referenced in the application definition you select.

You can print this report by choosing the Manage, Tools, Reports option and then choosing the Trigger Reports option from the Reports window.

Reports	×
Form Readability Statistics Report	
Form Report Form Validation Report	
Impact Report	
Paragraph Selection List Report	
Registry Report Section Readability Statistics Report	
Section Report	
Section Usage Report Template Report	
Trigger Report	
User Security Report	•
Trigger Report 💿	\odot
The Trigger Report shows which Subroutines (DAL	-
triggers) are referenced and not referenced in the	
selected Application Definition file (BDF).	
The report has three sections:	_
	l ▶ I
Style OEfault CElegant C Plain	
S Derdak S Elegank S ham	
< Back Next > Cancel	Help
< pauk <u>N</u> ext > Cancel	neip

The Reports wizard then takes you through the steps necessary to identify the application definition (BDF) file from which to pull the information and to generate the report.

Here is an example of the report:

둘 LETTER v1.7 4/6/2005 🔮 Trigger Report		4 ▷ 🗙		
Business Definition: ACME.BDF v1.1 1/1/1980				
Subroutines Referenced				
Subrodunes Referenced				
Subroutines	Numbe	er of References		
ALWAYS	1			
IND4	1			
	2			
TAXIND	1			
THKFOOA1	1			
THKFOOB1	1			
	2			
VALUES	1			
Subroutine Ref	erenced But Not in DAL Trig	ger Library Script		
Subroutine	Target	Reference		
Subroutines not Referenced				
Subroutine				
Trigger Report: ACME				

The report has three sections, similar to the other usage reports:

- The first section lists all of the referenced DAL triggers with a count of how many times that trigger was encountered
- The second section lists the unrecognized DAL triggers along with the name of target they intend to trigger
- The third section lists the DAL triggers not directly referenced in any trigger in the business definition

Example 2: Add a DAL Section trigger to the Medical History Form

Based on the implementation information for the Medical History form, we know that the Medbodyl section needs to reprint every time a Treatment record is found in a transaction. This means that the section is conditional to that Treatment record, so we not only need our normal Form level trigger for the Medical History Form, but we also need a trigger to be evaluated on the Medbodyl Section of that form, so the Documaker Server will pull that section as many times as needed. This is an overflow scenario. See *Example Form* on page 25 for information on the Medical History form.

Step A:Add the DAL trigger to the SETRCBTB file

- Using the Triggers manager, check out the SETRCPTB file.
- Create a new trigger, called MEDBODY.
- If using the XDD, set up an If, Then statement in the DAL wizard to say that If the Treatment record is found, True else False. Or, the DAL script for this would look like this:

9 Ø)
1	<pre>Return(CountRec("!/XTRAININGCOMPANY9/DATA/TREATMENT"));</pre>
2	RETURN(1);
3	End;
4	RETURN(0);
5	

• Save this file.

Step B:Add the DAL trigger to the Section

- Select the Medbody1 section on the Page pane of the Medical History form in the Form manager.
- Click the Add Trigger icon, or use the Insert, Trigger menu option.
- In the Name field in the DAL Trigger Options pane, click the drop-down to get MEDBODY.
- Occurrence flag is 1. (We will also use the Records Per Overflow Section to 1 for Overflow later.)
- One way to set up Recipients on Section triggers is for the trigger Recipients to be marked as Use Section Count. This means that the section trigger settings on the main section properties pane will have the recipients count.
- Click back on the Medbody1 section in the Page pane. The Recipient copy counts can be marked as 1 Copy.
- Check the form back in the library to save.

Note Any examples in this guide usually demonstrate one possible configuration for a given process. In Documaker there are different ways to achieve the same results, and legacy methods are supported in current versions of Documaker Studio. If your implementation is set up differently than shown in documentation, but is working, do not alter your current configuration.

SETRECIP TABLE OPTIONS

The SetRecip Table lets you specify the conditions under which a form or a section will get triggered when building Manual trigger entries. To create a Manual trigger, add a trigger to a form, and then in the Trigger Name field, click the list and select {Manual Trigger}.Depending upon the requirement, not every field is completed. This table discusses each field:

Field	Description
SetRecip Information	
Transaction Codes <transcds></transcds>	By including one or more Transaction codes in this field, you trigger a particular form (or section) only if the extract file record includes that particular Transaction Code.
<recips></recips>	
Search Mask (Counter) <mask1></mask1>	Lets you set the criteria to determine whether or not a form (or section) belongs in the form set. The criteria allows the Rules Processor to get specific data from the extract file. Adds one form (or section) for every occurrence of the search mask per transaction. The Occurrence Flag must be set to one (1) for the search mask to act as a counter.
Occurrence Flag <occurrence></occurrence>	To use the search mask as a counter, the Occurrence Flag (overflow) must be set to one (1). Use with the Search Mask Counter, Records on Different First Section, and Records Per Overflow Section fields. (0=no overflow and 1=overflow) Performance issue flags in this field include: - Master (M) form level trigger flag - Form (F) form level trigger flag - Subordinate (S) section level trigger flag
Records on different first section <recsper1st></recsper1st>	Lets you indicate the number of records that appear on the first section before overflowing to a new section.
Records per overflow section <recsperimg></recsperimg>	Lets you specify the number of records matching the search mask that will fit on the specified overflow section. If the value is zero (0) and the Occurrence Flag is set to one (1) with the Search Mask Counter set, the system automatically sets this flag to one (1) to perform the overflow calculations.
Search Mask (True/False) <conditional></conditional>	Similar to Search Mask (Counter), but only one form (or section) is triggered, regardless of how many occurrences of the condition exists.
Custom Rule Name <functionname></functionname>	Normally used for custom implementation requirements. Only exceptions are RECIPIF and RECIPCONDITION rules.
Custom Rule Parameters <data></data>	Specifies parameters for the custom rule used in the Custom Rule Name field.
Recipient Information	
Form Level Trigger Recipient Copy Count <recipcpyct></recipcpyct>	

Field	Description
Section Level Trigger Recipient Copy Count <recipcpyct> Recipient names listed with no check or a check</recipcpyct>	Defaults the recipient copy of each recipient defined at the form level If recipient was eligible in the form file, it is checked here.

Example 3: Add a Manual Section trigger to the Medical History Form

What if we want to use Manual triggers instead of DAL triggers? The following steps outline adding a Manual trigger to the Medbody1 section.

- Click the Medbody1 section on the Page pane of the Medical History form in the Forms manager.
- Use the Add Trigger icon, or the Insert, Trigger menu option.
- In the Name field of the Trigger pane, click the drop-down and select {Manual Trigger}.
- This section needs to print on the occurrence of any Treatment record in the transaction. Our implementation information (see *Example Form* on page 25) says that the XML element for the Treatment records are set up like this:

!/TRAININGCOMPANY/DATA/TREATMENT

- This is added to the Search Mast (Counter) field. We use the Counter (instead of True/False) on this section because we want our section record to be counted and printed for each occurrence, not just the first occurrence.
- Mark the Occurrence Flag and the Records Per Overflow Section as 1. (We will discuss this with Overflow later.)
- Mark Recipient Copy Count as 1, then check the box next to each Recipient on the trigger (Agent, Homeoffice, Insured).
- Using the above Recipient settings on the trigger, we can have Recipients marked as Eligible on the section level, which tells the system to look at the count on the actual trigger. In this case, we checked a copy for each Recipient on the trigger.
- Check the form back into the library to save.
- **Note** Any examples in this guide usually demonstrate one possible configuration for a given process. In Documaker there are different ways to achieve the same results, and legacy methods are supported in current versions of Documaker Studio. If your implementation is set up differently than shown in documentation, but is working, do not alter your current configuration.

UNDERSTANDING RECIPIENT COUNTS

Although you can specify a recipient count at the form level, technically, recipient counts can only occur at the section level. The count shown at the form level actually represents the first occurrence of a recipient on a section contained within the form.

For instance, suppose you have these sections:

🖃 🔂 Pag	je	
	He	ader
- 🗖	Bo	dy
		IMGA
		IMGB
		IMGC
	Fo	oter

with these possible recipients: Agent, Insured, and Memo, as shown in this table:

IMGA recipien	/IGA recipients		IMGB recipients		ents
Agent	not eligible	Agent	1 сору	Agent	2 copies
Insured	1 сору	Insured	not eligible	Insured	2 copies
Memo	not eligible	Memo	not eligible	Memo	not eligible

Assuming you have these sections defined in this order: IMGA, IMGB, and IMGC on the form, your form-level recipient list will show the following:

-	Recipients	
	AGENT	1 Copy
	INSURED	1 Copy
	MEMO	Not eligible

Notice that even though IMGC has a different copy count for Agent and Insured, the form shows the count of the *first occurrence* of that recipient. In this case, Insured first occurs on IMGA. Agent first occurs on IMGB and Memo does not occur on any section. Therefore, the form shows one copy for both Insured and Agent and *not eligible* for Memo, since it is not used anywhere.

When you change the recipient count at the form level, the system scans that form's sections. The system changes the recipient count for any section which shared the same recipient count value as the form to match the new setting defined at the form level. If the section did not share the same recipient value as the form or if that recipient had a different count, the system does not change the value.

Using the example above, assume you are changing the form level definition of Agent as shown here.



IMGA recipients	MGA recipients IMGB recipients IMGC recipients		IMGB recipients		nts
Agent	not eligible	Agent	3 copies	Agent	2 copies
Insured	1 сору	Insured	not eligible	Insured	2 copies
Memo	not eligible	Memo	not eligible	Memo	not eligible

The resulting changes at the section level are shown in this table:

Notice that only IMGB changed to show Agent getting three copies. IMGA did not define the recipient and therefore did not change. IMGC did define the recipient, but had a different count (2) from what was shown at the form level. Therefore, it did not change either.

A value of *not eligible* means the recipient is not defined for a given section. If no sections are using a given recipient, the form level will also show *not eligible* as the current value. In this example, the recipient Memo is not used on any of the sections.

When you change a recipient at the form level that was formerly *not eligible* to have another value, you are adding that recipient to all subsequent sections with the count you specify. For example, assume you define Memo at the form level as shown below:

Recipients	3
AGENT	3 Copies
INSURED	1 Сору
MEMO	1 Сору 💌

The resulting change to the sections is shown in this table:

IMGA recipients	5	IMGB recipie	nts	IMGC recipie	nts
Agent	not eligible	Agent	3 copies	Agent	2 copies
Insured	1 сору	Insured	not eligible	Insured	2 copies
Memo	1 сору	Memo	1 сору	Memo	1 сору

Since none of the sections previously defined a value for the Memo recipient, all of the sections accepted the new value you assigned at the form level. In effect, all of the sections had the same prior value for this recipient, as shown at the form level and therefore all matched. At this point, if you decide a section should not define this recipient or should have a different count, you can change that section independent of the others.

There is one exception to the matching rule where only those sections that define the same value as shown on the form level will change. This occurs if you should change a recipient to *not eligible* at the form level.

If you set a recipient to *not eligible* at the form level, it does not matter what value a section has for that recipient. All the sections will accept and assign *not eligible* to that recipient, if you assign that value at the form level. Consider this example where Agent is changed at the form level:

Recipients		
AGENT	Not eligible 🛛 👻	
INSURED	1 Сору	
MEMO	1 Сору	

If you look back at the prior table for the sections, you will see that only IMGB and IMGC defined the Agent recipient, but both had different counts. The resulting change by assigning *not eligible* at the form level is show in this table:

IMGA recipients		IMGB recipients		IMGC recipients	
Agent	not eligible	Agent	not eligible	Agent	not eligible
Insured	1 сору	Insured	not eligible	Insured	2 copies
Memo	1 сору	Memo	1 сору	Memo	1 сору

Again, note that assigning *not eligible* at the form level for a recipient is an exception that changes all of the sections contained by that form.

Keep in mind...

- The values shown at the form level for each recipient merely represent the first occurrence of that recipient found within the form.
- It is not necessary that all of the sections have the same value for each recipient.
- If you change the first occurrence of a given recipient at the section level, the form level value for that recipient changes to reflect the definition of that first instance.

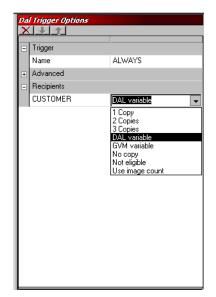
Using Variables to Set Copy Counts

You can use a GVM or DAL variable to set the copy count for sections and forms triggered using the method known as DAL triggers. This makes it possible for the trigger script to assign the count based on user data, or in the case of GVM variables, to get a value directly from the data feed.

The key is that the DAL or GVM variable *must* have the same name as the recipient being mapped. For instance, if you are mapping the *INSURED* recipient and want to use a DAL variable, then the DAL variable must be named *INSURED* as well. Or if you want to use a GVM variable to map the copy count to the recipient *AGENT3*, then the GVM variable must be named *AGENT3*.

If the requested variable type cannot be found with the correct name, a warning message appears and the count is set to one (1).

To use a GVM variable to assign the count, select *GVM variable* on triggers tab as the copy count. Select *DAL variable* if you want to assign the count from a DAL variable. Here is an example:



You must establish the values assigned to the recipient named GVM and/or DAL variables referenced by the triggers prior to their use. You can do this in the trigger script or at any point before the trigger executes. Subsequent values assigned to the recipient named GVM or DAL variables do not affect forms and/or sections that have already been triggered and assigned a value.

Chapter 6

Working with Sections

Studio makes it easy to create and maintain the sections that comprise your forms.

A section (image) is a group of text or graphics or both which make up all or part of a form. You create sections with the Sections option. Each section is stored in a separate file, so you can reuse sections in multiple forms and form sets. Make sure you have the needed rights to perform the function, otherwise, contact your System Administrator to update.

For example, a three-page form with text and graphics printed on both sides of each page, could contain a total of six sections.

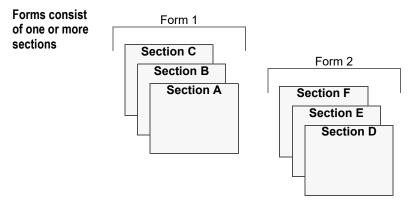
This topic discusses:

- Overview on page 250
- Using the Screen on page 252
- Opening a Section on page 277
- Adding Objects on page 291
- Creating Bar Codes on page 293
- Adding Bookmarks on page 317
- Adding Charts on page 323
- Defining Tab Stops on page 355
- Defining Tables on page 360
- Paragraph options on page 410
- Creating Tables of Contents, Tables of Figures, and Indexes on page 381
- Adding Comments to Documaker Objects on page 391
- Using the Task List on page 393
- Creating Text Areas on page 395
- Creating Text Labels on page 405
- Inserting a Field on page 408
- Inserting Signatures on page 426
- Converting Multiline Text Fields to Paragraph Assembly on page 443
- Printing a Form, Section, or Paragraph on page 448
- *Printing Stubs* on page 450
- Using Printcommander to Create Sections on page 453

• Assigning a Section Background Color on page 464

OVERVIEW

Sections can consist of both static and non-static objects. When saved, a section is stored with the extension of FAP. Each form is comprised of a minimum of one FAP file. Typically, however, a single form consists of one or more sections. Since multiple forms and sections make up a form set, you can view and navigate through each form and section individually.



A form can consist of multiple sections, and consequently you can view the varying sections within a form by displaying different pages of the form.

Section Objects

Objects are the individual items which comprise your section. Examples of objects are boxes, bar codes, lines, graphics, and text. All objects have unique attributes within the section. Attributes include items such as position, size, font type, and color.

Objects are either static or variable, depending upon whether they can be linked to data elements when processing. The following table lists objects by their type:

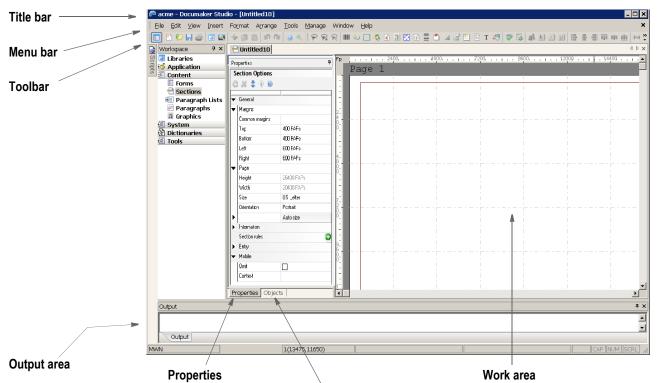
Static objects	Variable objects
Bar Code	Bar Code
Bookmark	Chart
Box	Field
Chart	Text Area
Field	
Graphic	
Index or Table of Contents	
Line	
Shade	
Signature	

Static objectsVariable objectsTableText LabelVectorGuide (section composition only)Note (section composition only)

USING THE SCREEN

Studio places all the tools you need for professional document creation at your fingertips. The screen is your document work area. It is important to become familiar with the general screen layout and parts of the screen. Understanding the screen layout will help you work quickly and efficiently.

The first window that appears when working with sections is shown here.



List of objects

ltem	Description		
Title bar	The title bar displays the name of the workspace you have open, followed by Documaker Studio, and then the name of the section you have open.		
Menu bar	The menu bar provides the list of available pull-down menus.		
Toolbar	The toolbar contains a row of icons that provide quick access to common options.		
Output area	The Output area is where Studio displays messages to you.		
Properties	Click this tab to work with the properties for the section or the selected object within the section.		
Objects	Click this tab to see and choose from a list of the objects contained in this section.		
Work area	This is where you create the section. Objects are placed in this area as the section is built.		
Mobile: Omit	Select this check box, if you do not want the object to be included in the Mobile Output		
Mobile: Context	Select this option to pick from a list of available tags or edit/add a new one on the particular object.		

Note This option requires Documaker Mobile. If you have not purchased and installed Documaker Mobile the required mobile options will be disabled. To purchase Documaker Mobile, visit My Oracle Support website or contact your Oracle Sales representative.

USING THE MENU BAR

This section introduces you to the pull-down menus which include additional options or are only available when you are working with sections. A summary of each of these menu appears below. The menus are listed in the order they appear on the menu bar.

Note For information on the standard menus and menu options which are always available, see *Using System Menus* on page 35.

Menu	Description
Edit	The Edit menu provides options you use as you create and modify sections and the objects that make up sections. You copy, cut, delete, and paste individual objects, or select all objects for editing. You can also delete pages and undo changes from the Edit menu.
View	The View menu controls the appearance of your window as you create or edit sections. It lets you hide or show various toolbars and panes.
Insert	The Insert menu lets you create objects and place them in your section. You can also insert objects by clicking on the object icon on the toolbar.
Format	The Format menu provides options that let you format objects and text and set up the specific formatting properties.
Arrange	The Arrange menu lets you align, space, size, and center objects.
Tools	The Tools menu controls features used to check spelling and grammar on sections and lets you enter the data entry check option. These types of features are used most often when a section is complete or near completion.

Enable Sections to Split across page breaks during entry

This feature adds support to WIP Edit Plug-In and DM Studio's data entry check to allow for section content to dynamically split across pages as it's pushed down by added content above and to merge back onto a single page as content is removed above the targeted section.

This version of the split image function will not support any of the legacy group pagination options such as GroupPagination, Box, List, StayTogether, Column, PaginateBeforeThisImage, etc. In addition, Sub Form pagination options are not supported.

Using the Edit Menu

The Edit menu controls modifying sections and objects within sections. You can copy, cut, delete, and paste individual objects or select all the objects for editing. Edit options also let you find and replace text, make global font changes, and undo certain editing functions.

When you select Edit when working with sections, this menu appears:

ß	<u>U</u> ndo	Ctrl+Z
ß	<u>R</u> edo	Ctrl+Y
-60	Cu <u>t</u>	Ctrl+X
B	<u>C</u> opy	Ctrl+C
	Paste	Ctrl+V
x	Delete	Ctrl+D
	P <u>a</u> ste Special	Ctrl+Shift+V
	Select	•
4	Eind	Ctrl+F
5	R <u>e</u> place	Ctrl+H

Option Description

Undo	Cancels or reverses your last action or choice.		
Redo	Reverses your last undo.		
Cut	Removes a section of a section and places it on the clipboard.		
Сору	Duplicates a selected section of a section and places it on the clipboard.		
Paste	Pastes content from the clipboard.		
Delete	Deletes the selected object.		
Paste Special	Only available for text areas, lets you copy from the clipboard.		
Select			
Character	Selects a character.		
Word	Selects a word.		
Line	Selects an entire line.		
Paragraph	Selects a paragraph.		
Column	Selects a column.		
All	Selects everything.		
None	No items are selected.		
Find	Locate words, phrases, or character strings.		
Replace	Locate words, phrases, or character strings and, if necessary, replace them.		

Auto Lasso

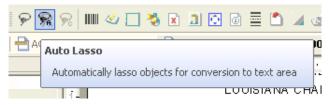
The Section Manager of Documaker Studio provides an "Auto Lasso" feature to help automate the process of converting text labels into text areas. This feature automatically determines groupings of text labels that are likely to be paragraphs and columns to minimize the amount of time and effort required to convert text labels into text areas.

All text labels in a section can be selected and converted into text areas in as little as two mouse clicks. By contrast, the alternate process of clicking lasso mode, dragging a selection box around a paragraph or column, right-clicking and selecting "Convert to Text Area" from the menu involves many clicks and will usually be repeated many times in a section.

Auto Lasso Toolbar Buttons

"Auto Lasso" and "Complete Auto Lasso" buttons appear adjacent to the traditional "Lasso" button.

Office XP Theme



Office 2007 Theme

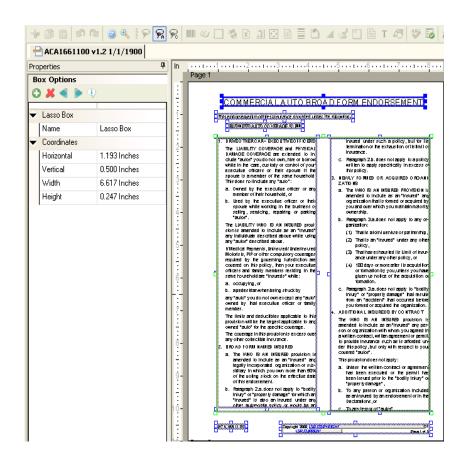


Step A:Click "Auto Lasso"

When "Auto Lasso" is clicked, the Section Manager locates text labels that are adjacent and would be considered paragraphs and columns and creates "lasso boxes" to identify those areas. The lasso boxes for individually identified areas are blue. When two lasso areas are adjacent and appear to be columns, an additional green lasso box is created to enclose both areas to indicate that a text area with multiple columns will be created when the conversion is completed. The Section Manager enters "Auto Lasso" mode and disables all other editing activities until the conversion has been completed or abandoned. Auto Lasso may be abandoned by clicking "Auto Lasso" again or pressing the "Esc" key and the auto lasso boxes will be removed. The "Complete Auto Lasso" button is enabled while "Auto Lasso" mode is active.

Auto Lasso Usage

Conversion from text labels to text areas requires three steps. The second step is a review step that allows the user to review the lasso results and make adjustments before the conversion is completed.



Step B:Review Lasso Results / Make Optional Adjustments

The user should review the locations of the lasso boxes to verify that the lasso results are acceptable. If the results are not acceptable, the user can make adjustments to the lasso boxes.

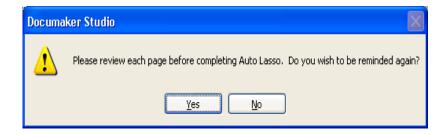
If adjustments are necessary:

• Lasso boxes may be moved and resized (note that the text labels in overlapping lasso areas will be combined into one text area)

- Lasso boxes may be deleted. This may be useful when:
 - there is no need to convert the given portion of the section
 - columns are identified, but the user does not wish them to be joined into one text area

For sections with larger gaps between bullets (or numbers) and paragraphs, the bullets may be occasionally identified by their own lasso boxes. Having a bullet appear in its own text area would not be desirable and this may be corrected by dragging the lasso box for the paragraph to be larger and enclose the bullet. It is also possible to increase the lasso "tolerance" to reduce the occurrences of orphaned bullets (see Tolerance in "Auto Lasso Settings").

For sections with multiple pages, the user is reminded to review all of the pages. Depending on the zoom mode, the user may only see one page at a time and forget to review the other pages. The reminder may be dismissed once the user becomes accustomed to reviewing all pages.



Step C:Click "Complete Auto Lasso"

When "Complete Auto Lasso" is clicked, the Section Manager visits each of the lasso boxes and converts the enclosed text labels into text areas. The result of the Auto Lasso process is a section with text areas that are more easily maintained than text labels.

Auto Lasso Settings

Studio's "Sections/Document View" Settings provides configuration for Auto Lasso. These are also documented in the "Working with Section Options" section of this manual.

"Show multiple page warning" is a check box to indicate whether the multiple page reminder is displayed when "Auto Lasso" is clicked for a multiple page section.

"Tolerance" is the amount of separation that items may possess and still be grouped together. The tolerance value is provided in a combo box list that contains three levels: Low, Medium and High. Each level is associated with an increasing tolerance value - a larger value indicates a more aggressive lasso.

The values shown in the combo box depend on the system measurement units chosen by the user.

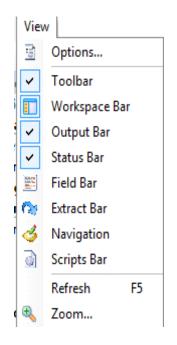
Units	Low	Medium	High
Centimeters	0.254	0.508	1.016
FAPs	240	480	960
Inches	0.100	0.200	0.400
Picas	0.600	1.200	2.400
Points	7.200	14.400	2.400

The "Can grow and shrink" and "Can span pages" check boxes control what options are set on the text areas created when "Complete Auto Lasso" is invoked.

Using the View Menu

The View menu controls the appearance of your screen as you work on a section. You toggle on and toggle off the display of various features through the use of items on the View menu.

When you select View, this menu appears:



Option	Description
Options	Lets you change general document view options. (Manage, System, Settings, Sections)
Toolbar	Lets you show or hide the Toolbar
Workspace Bar	Lets you show or hide the Workspace pane
Output Bar	Lets you show or hide the Output area

Option	Description
Status Bar	Lets you show or hide the Status bar
Field Bar	Lets you show or hide the Common Fields pane
Extract Bar	Lets you show or hide the Data Extract pane
Navigation	Lets you show or hide the Form Set Navigation pane
Scripts Bar	Lets you show or hide the Scripts pane
Refresh	Lets you update and redisplay the section.
Zoom	Displays the Zoom dialog which allows you to adjust the current zoom.

Using the Insert Menu

The Insert menu controls the creation and placement of objects in your section. Boxes, bar codes, lines, and other types of objects are drawn and positioned in your section. You can also import a page, whether it is blank or full of text. You can select to create an object from the Insert menu or you select to create an object from the toolbar.

When you select Insert, this menu appears:

ю к в
- -К -В -С
нв -С
-C
-
1
-G
-U
+I
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s
-R
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•
٠T
-V

Option	Description			
Autocreate Lets you create objects repeatedly without entering the object's options.				
Bar Code	Lets you insert a bar code.			
Bookmark	Used to add bookmarks to FAP files. A bookmark defines the text you want to print in the table of contents. A level number (TOC1, TOC2, and so on) can be used to determine the formatting to use. You specify whether the bookmark is to be used by a table of contents, table of figures, or index.			
Box	Lets you insert a box.			

Option	Description
Break	Lets you insert a break into a text area.
Chart	Starts the Chart wizard so you can insert a chart.
Field	Lets you insert a field.
Graphic	Lets you insert a graphic.
Guide	Lets you create a guide box, which you can use to help you align objects.
Index and Contents	Lets you insert a add an index or a table of contents or figures.
Line	Lets you insert a line.
Note	Lets you insert a note.
Page	Lets you insert a page.
Shade	Lets you insert a shaded area.
Signature	Lets you insert a signature.
Table	Starts the Table wizard so you can create a table.
Text Area	Lets you insert a text area.
Text Area Special	Activates text area draw to insert from a file or the clipboard.
Text Label	Lets you insert a text label.
Vector	Lets you insert a vector.

Using the Format Menu

The Format menu controls formatting functions associated with the section and the objects in the section. You can view or change the properties for the page, section, or individual objects from this menu.

When you select Format, this menu appears:

Option	Description
Duplicate	Duplicates the selected object
Color	Change the color of the selected text to the selected color.
Font	Select or change fonts.
Bold	Bold the selected text.
Italic	Italicize the selected font.
Underline	Underline the selected text. Underline selections include Single, Double, Single Word and Double Word
Strike-out	Strikes out (draws a horizontal line through) the selected text.

Option	Description				
Superscript	Turns the selected text into superscript.				
Subscript	Turns the selected text into subscript.				
Language	Select or change the language.				
Change Case	Changes the case of the selected text. Case selections include Upper Case, Lower Case, Sentence Case and Title Case)				
Table	Displays Table options when editing a table object				

Using the Arrange Menu

The Arrange menu controls options that let you align, space, size, and center the objects you are working with.

When you select Arrange, this menu appears:

	Align		Space		Make Same Size		Center in Page
	Lefts	ю	Evenly Across	B	Height	-	Horizontal
롬	Centers	Ξ	Evenly Down	.	Width	\$	Vertical
릠	Rights	•	Custom	醸	Both	-	Left
āgā	Tops	1				Ţ	Right
000	Middles					-11	Тор
000	Bottoms					ıŀ	Bottom

Option	Description
Align	
Lefts	Aligns the left edges of the selected objects based on the master object.
Centers	Aligns the centers of the selected objects based on the master object.
Rights	Aligns the right edges of the selected objects based on the master object.
Tops	Aligns the tops of the selected objects based on the master object.
Middles	Aligns the middles of the selected objects based on the master object.
Bottoms	Aligns the bottoms of the selected objects based on the master object.

Note The master object is the last object selected. To change the master object after the desired objects are selected, Ctrl + right click on the object you wish to designate as the master object.

The small selection boxes that border a selected object will be filled solid on the master object. The small selection boxes that border other (not master) objects will be hollow.

Space					
Evenly Across	Spaces the selected objects evenly across the section.				
Evenly Down	Spaces the selected objects evenly down the section.				
Custom	Displays the Custom Spacing window so you can specify custom spacing intervals.				
Make Same Size					
Height	Makes the selected objects the same height.				
Width	Makes the selected objects the same width.				
Both	Makes the selected objects the same height and width.				
Center in Page					
Horizontal	Centers the selected objects horizontally on the page.				
Vertical	Centers the selected objects vertically on the page.				
Left	Aligns the selected object to the left edge of the margin. If the section has no margins, the selected objects are aligned to the left edge of the page.				
Right	Aligns the selected object to the right edge of the margin. If the section has no margins, the selected objects are aligned to the right edge of the page.				
Тор	Aligns the selected object to the top edge of the margin. If the section has no margins, the selected objects are aligned to the top edge of the page.				
Bottom	Aligns the selected object to the bottom edge of the margin. If the section has no margins, the selected objects are aligned to the bottom edge of the page.				

These icons let you align objects. See also the Arrange menu.

Using the Tools Menu

The Tools menu controls options often used when your section is complete or near completion. Spell check and Data Entry check are some of the features available.

When you select Tools, this menu appears:

	⊻alidate		
	<u>T</u> ask List		
5	Data Entry Check	F9	
АВС	Spell Check	F7	
	Spelling <u>O</u> ptions		
	<u>G</u> rammar Check		
	Grammar Op <u>t</u> ions		
	<u>R</u> eadability Statistics		
	Section Report		
$\mathcal{P}_{\!\!A}$	Auto Lasso		
\mathcal{P}_{0}	Complete Auto Lasso		
	Select <u>A</u> rea for Section	n	
	Convert to Text Area		
	Convert to Text Label		
	Split Te <u>x</u> t		
	Convert to <u>F</u> ield		
	Convert With Area To	ol	
	Com <u>p</u> ile		
	<u>N</u> ormalize		

Option	Description
Validate	Lets you validate your section.
Task List	Displays the task list for the selected object.
Data Entry Check	Activates the section check feature. Lets you test the data entry and navigation rules you assigned to fields.
Spell Check	Turns on the spell check feature. Lets you check the spelling of all text in your current section.
Spelling Options	Lets you specify spell check options.
Grammar Check	Performs Grammar check on the entire document or on the selected items.
Grammar Options	Let you choose the grammar checking options you want to use.
Readability Statistics	Generates readability statistics for the text in the selected objects.
Section Report	Generate a report about the current section. You can view and print the report.
Auto Lasso	Automatically groups text labels that are likely to be paragraphs.
Complete Auto Lasso	Converts the text labels selected using Auto Lasso into paragraphs.
Select Area for Section	Lets you select an area in the current section and convert it to a new section.
Convert to Text Area	Combines selected text labels or text areas into a single text area.
Convert to Text Label	Combines selected text labels into a single text label.
Split Text	Splits a single text area into individual text labels.
Convert to Field	Converts a text label into a field.
Convert with Area Tool	Converts selected objects or a selected area to a new section.
Compile	Lets you compile your section file for a particular printer. Compile creates a section file for a PCL, AFP, PostScript, or Metacode printer.

 Option
 Description

 Normalize
 Lets you convert a FAP file into a normalized Metacode or AFP file.

USING THE RIGHT-CLICK MENUS

When working with section properties, you can right-click to see the following menu:

 C M C T B L 	Print This Window Export This Window to File Auto size				
Ri	ght	600 FAPs			
▼ Pε	per				
He	eight	26400 FAPs			
Wi	dth	20400 FAPs			
Siz	:e	US Letter Portrait			
Or	entation				
•		Auto size			
Inf	ormation				
Se	ction rules	3			
🕨 En	try				
Co	lor				

Option	Description
Print this Window	Prints the contents of the window.
Export This Window to File	Export the contents of this window to a CSV (comma separated value) file.
Auto size	Use to automatically size the section.
Toggle Information Pane	Display or hide the information pane.
Help	Display Help information.

When working with a section, you can right-click to see this menu.

	e	
€,	Zoom	
Ē	Options	
_	Ruler	•
	Print	
	Dra <u>f</u> t Mode	
S	Undo	
Ð	<u>R</u> edo	
80	Cu <u>t</u>	
3	Copy	
ĸ	Delete	
ĥ	Paste	
	Paste Spec <u>i</u> al	
	Go to Page	
	Re <u>m</u> ove Page	
	Duplicat <u>e</u>	
	<u>A</u> lign	b
	Space	b
	Make Same Size	*
	Center in Page	•
	Con <u>v</u> ert to Text Area	
	Convert to Text Label	
	Split Te <u>x</u> t	
	Co <u>n</u> vert to Field	
	Convert With Area Tool	
	Select Area <u>f</u> or Section	
BC	Spell C <u>h</u> eck	
	Grammar Chec <u>k</u>	
	Reada <u>b</u> ility Statistics	
Ор	tion	Description
Zoc	om	Displays the Zoom dialog which allows you to adjust the current zoom.
~		
Jpi	lions	Displays the Studio Settings which allows you to control how Studio displays documents. For instance, you use these options to hide or display rulers or the g and turn on or off automatic spell and grammar checking.
Rul	er	Lets you show or hide horizontal and vertical rulers and set the unit of measure those rulers.
	Horizontal	Select to display the horizontal ruler. De-select to turn off horizontal ruler displa

Select to display the vertical ruler. De-select to turn off vertical ruler display.

Select to display the ruler in picas. Sets the ruler unit of measurement to Picas.

Select to use FAP units (2400 per inch) on the ruler.

Change the ruler unit of measurement to Centimeters.

Change the ruler unit of measurement to Inches.

Change the ruler unit of measurement to Points.

Select to undo or reverse your last action.

Prints a copy of the section.

Vertical

FAPs

Inches

Picas

Points

Print

Undo

Centimeters

Option	Description		
Redo	Select to redo an action that you undid.		
Cut	Deletes the selected object(s) and copies them to the clipboard.		
Сору	Copies the selected object(s) to the clipboard.		
Delete	Deletes the selected object(s).		
Paste	Duplicates part of a section and places it on the clipboard.		
Paste Special	 Duplicates part of a section and places it on the clipboard. The Paste right click menu items are activated depending on the clipboard content and the section object. Formatted Text (RTF) - Retains the formatting of the text being pasted from clipboard Unformatted Text - test is pasted as plain text. DIB (as Graphic) - Device Independent Bitmap or bitmap image file. Graphic representation from the clipboard is pasted. If the DIB being pasted is wider than the text area, a prompt to resize the text area is displayed. Enhanced Metafile (as Graphic) - Enhanced Meta file. EMF is a 32 bit replacement for the original windows meta file (WMF) format Graphic representation from the clipboard is pasted. If the EMF being pasted is 		
Go to Page	wider than the text area, a prompt to resize the text area is displayed. Jumps to a specific page in the section.		
Remove Page	Removes a page in the section.		
Duplicate	Duplicates the selected object(s). The duplicate dialog displays which allows you to select number of copies, boundary and interval.		
Add Row Before	Adds a row before the selected table row.		
Add Row After	Adds a row after the selected table row.		
Delete Row	Deletes the selected table row including row data.		
Add Column Before	Inserts a column before the selected table column.		
Add Column After	Inserts a column after the selected table column.		
Delete Column	Deletes the selected column including column data.		
Cell Shading	Set the shading for the selected cells. Cell shading for specific cells will override table shading or banded shading.		
Borders	Set border style, thickness, pattern and color for the selected cells. Any cell-level border changes will override the table-level border settings made with the "Table Options" dialog.		
Border Color	Sets the border color.		
Banded Rows	Press "Banded Rows" to shade alternate table rows with the shading colors and patterns as defined for the table under the "Shading" group of the "Table Options" dialog.		

Option	Description				
Banded Column	Press "Banded Columns" to shade alternate table columns with the shading colors and patterns as defined for the table under the "Shading" group of the "Table Options" dialog.				
First Row	Set the shading for the first table row.				
Last Row	Set the shading for the last table row.				
First Column	Set the shading for the first table column.				
Last Column	Set the shading for the table last column.				
Alignment	 Sets the cell alignment: Left Align - all paragraphs in table cells are left aligned Center Align - all paragraphs in table cells are centered Right Align - all paragraphs in table cells are right aligned Vertical Top Align - applies vertical top alignment to all paragraphs in table cells Vertical Center Align - applies center alignment to all paragraphs in table cells Vertical Bottom Align - applies vertical bottom alignment to all paragraphs in table cells Vertical Bottom Align - applies vertical bottom alignment to all paragraphs in table cells Vertical Center and Bottom positions of the paragraphs are depending on the row height. Preferred row height can be set in the Table Options dialog or by dragging the row bottom border with the mouse. 				
Table Properties	Displays the table options.				
Show Gridlines	Press "Show Gridlines" to toggle the display of table grid lines. Gridlines are helpful for seeing cells that do not have borders defined.				
Align	 Aligns according to section margins or a specific object. Centers - Aligns the centers of the selected objects based on the master object Rights - Aligns the right edges of the selected objects based on the master object. Tops - Aligns the tops of the selected objects based on the master object Middles - Aligns the middles of the selected objects based on the master object Bottoms - Aligns the bottoms of the selected objects based on the master object The master object is the last object selected. To change the master object after the desired objects are selected. Ctrl + right click on the object you wish to designate as the master object. The small selection boxes that border a selected object will be filled solid on the master object. The small selection boxes that border other (not master) objects will be hollow. 				
Space	 Spaces objects based on the following: Evenly Across - Make the space (gap) between the selected objects even, so that they are all the same distance apart horizontally. Evenly Down - Make the space (gap) between the selected objects even, so that they are all the same distance apart vertically Custom - Allows you to customize the amount and type of spacing between the selected objects. Note: Spacing commands are activated when two (2) or more objects are selected, however three (3) or more objects need to be selected to activate Space Evenly Across/Down. 				

Option	Description			
Make Same Size	Sizes objects based on the following: Height - Size selected objects so the height is equal to the height of the anchor object. Width - Size selected objects so the width is equal to the width of the anchor object. Both - Size selected objects so the height and width is equal to the height and width of the anchor object.			
Page Align	 Centers the selected object(s) based on the following: Horizontal - Center selected objects on the page horizontally. Vertical - Center selected objects on the page vertically. Left - Aligns the selected object to the left edge of the margin. If the section has no margins, the selected object to the right edge of the margin. If the section has no margins, the selected object to the right edge of the margin. If the section has no margins, the selected object to the top edge of the margin. If the section has no margins, the selected object to the top edge of the margin. If the section has no margins, the selected object to the top edge of the margin. If the section has no margins, the selected object to the bottom edge of the page Bottom - Aligns the selected object to the bottom edge of the margin. If the section has no margins, the selected object are aligned to the top edge of the page 			
Convert to Text Area	Combines selected text labels or text areas into a single text area.			
Convert to Text Label	Combines selected text labels into a single text label.			
Split Text	Splits a single text area into individual text labels.			
Convert to Field	Converts a text label into a field.			
Convert with Area Tool	Creates a section or paragraph containing the selected objects or removes the selected objects from the section.			
Clear Area	Removes objects in the drawn area.			
Create Section	Create a Section with the Name you provide in the Name field.			
Create Paragraph	Create a Paragraph with the Name you provide in the Name field.			
Create Section (keep objects)	Create a Section with the Name you provide in the Name field.Objects are kept in the current section.			
Create Paragraph (keep objects)	Create a Paragraph with the Name you provide in the Name field. Objects are kept in the current section.			
Select Area for Section	Lets you draw an area in the current section and perform the actions below. Existing objects within the drawn area are incorporated into the new Section. Note: For an object to be incorporated into the new Section, the entire object must be inside the area you drew. If any part of the object is outside the area, it will not be included in the new Section.			
Clear Area	Removes objects in the drawn area.			
Create Section	Create a Section with the Name you provide in the Name field.			
Create Paragraph	Create a Paragraph with the Name you provide in the Name field.			
Create Section (keep objects)	Create a Section with the Name you provide in the Name field.Objects are kept in the current section.			

Option	Description			
Create Paragraph (keep objects)				
Spell Check	Performs a spell check based on the Spelling Options.			
Grammar Check	Performs a grammar check based on the Grammar Options.			
Readability Statistics	Provides statistics on the readability of the selected text.			

USING THE TOOLBAR

The toolbar is useful because it serves as a quicker route for performing some functions that may be listed on a menu.

Standard toolbar icons

When the toolbar is shown, the toolbar icons listed below are displayed. When the toolbar is hidden, these toolbar icons are hidden. The icons are listed as they appear from left to right.

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lcon	Name	Description					
	Workspace	Shows or hides the workspace pane.					
	New	Displays the Create New dialog which allows you to create a resource. Note : Depending on your user rights, some managers may not be displayed on the Create New dialog.					
6	Open	Displays the Open File window so you can open or create a file.					
U	Save	Saves the open file.					
4	Print	Prints the active document.					
	Libraries	Opens the master library.					
	Test Scenarios	Displays the Open File grid which lists the defined test scenarios for the workspace.					
-	Cut	Removes an object and places it on the clipboard.					
6	Сору	Copies an object and places it on the clipboard.					
	Paste	Places an object from clipboard onto the current file.					
9	Undo	Reverses your last action					
	Redo	Reverses last undo.					
3	Help	Displays the Help window					

lcon	Name	Description					
*	Zoom	Displays the Zoom dialog which allows you to adjust the current zoom.					

Section toolbar icons

Shown below are the toolbar icons that appear when you are working with sections. These icons apply to the lasso feature. See also the Tools menu.



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lcon	Description
Ģ	Lets you lasso objects. When objects are very close together, using lasso makes it easier to select or lasso specific objects that you would like to work with.
\mathcal{P}_{θ}	Turns on auto lasso
R	Completes the auto lasso, combining text labels into a text area

These icons let you insert objects into a section. See also the Insert menu.



lcon	Description
	Insert a bar code
-	Insert a bookmark
	Insert a box
3	Invokes the Chart Wizard which allows you to insert a chart.
	Insert a field
	Insert a graphic
•	Insert a guide
	Insert an index, table of contents, or table of figures

lcon	Description
	Insert a horizontal or vertical line
	Insert a memo or sticky note
	Insert a shaded area
	Insert a signature
8	Insert a table
	Insert a text area
Τ	Insert a text label
4	Insert a vector drawing

These icons execute spell check, data entry check and perform various formatting functions. Also see the Format menu topic.



lcon	Description
186	Performs spell check based on your spelling options against the entire document or selected objects in the document.
	Runs data entry check against the document.
al	Opens the Select Font window so you can change fonts.
b	Changes the font of the selected text to a bold version of that font.
	Changes the font of the selected text to an italic version of that font.
U	Underlines the selected text.

These icons let you align objects. See also the Arrange menu.



lcon	Description
	Aligns the left edges of the selected objects based on the master object.
1	Aligns the centers of the selected objects based on the master object.
-	Aligns the right edges of the selected objects based on the master object.
बहुब	Aligns the tops of the selected objects based on the master object.
1	Aligns the middles of the selected objects based on the master object.
<u>uön</u>	Aligns the bottoms of the selected objects based on the master object.
i teli	Space selected items evenly across the section.
j etj	Space selected items evenly down the section.
۲	Displays the Custom Spacing window so you can specify custom spacing intervals.
	Make the selected objects the same height.
	Make the selected objects the same width.
	Make the selected objects the same height and width.
	Centers the selected objects horizontally on the page.
	Centers the selected objects vertically on the page.
₽	Aligns the selected object to the left edge of the margin. If the section has no margins, the selected objects are aligned to the left edge of the page.
4	Aligns the selected object to the right edge of the margin. If the section has no margins, the selected objects are aligned to the right edge of the page.

lcon	Description
D î	Aligns the selected object to the top edge of the margin. If the section has no margins, the selected objects are aligned to the top edge of the page.
•• +	Aligns the selected object to the right edge of the margin. If the section has no margins, the selected objects are aligned to the right edge of the page.

Creating a Section

You can create a section several ways, such as

- From the toolbar if your Workspace Theme is set to Office XP, Office 2003 or Whidbey
- Using the File, New option
- Via the right click menu in the Workspace bar
- Clicking the New button on the Open File grid

Studio then creates a new, untitled section:

	operties		1
	ection Options		
C) 🗶 🗘 🖗 🖉		
¢	General		
Ŧ	Margins		
	Common margins		
	Тор	400 FAPs	
	Bottom	400 FAPs	
	Left	600 FAPs	
	Right	600 FAPs	
•	Page		
	Height	26400 FAPs	
	Width	20400 FAPs	
	Size	US Letter	
	Orientation	Portrait	
•		Auto size	
Þ	Information		
	Section rules		(
•	Entry		
¢	Mobile		
	Omit		
	Context		

Modify the section properties as necessary and begin adding the objects that will comprise your section. See *Adding Objects* on page 291 for more information.

OPENING A SECTION

Follow these steps to select and open a section:

1. Double click on Sections in the Workspace Bar or the Content tab (if your Workspace Theme is set to Office 2007). If your Workspace Theme is set to Office XP, Office 2003 or Whidbey, select Sections from the Manage, Content menu.

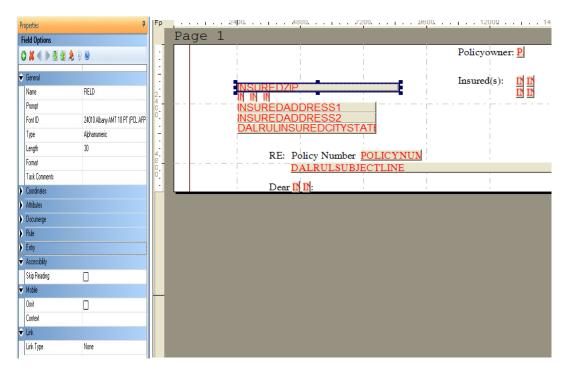
itor Filter Preview										42 of
RAININGCOMPANY BOAT v1.1 1/ 1/1980	Name	Туре	∀er	Rev	Effective Date	Locked	User	Secured	Description	Modified
Rent - Rost - Rost - Rost - and emiganet physical damage or ever	FL BILL 2	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/28/2010
for a range of handed that can happen while you've motoring, sailing, hundhing, hundhing, even storing your vessil. Also may porter against	FL BILL 3	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	9/9/2010
thest, vandalism, densige to another a property.	FL BILL 4	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/30/2010
	FL BILL ADDR A	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/28/2010
	FL BILL ADDR B	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/30/2010
	FL BILL ADDR C	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/30/2010
	FL BILL ADDR2	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	8/27/2010
	FL CLOSING	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/30/2010
	FL PREM CONFIRM	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/30/2010
	FL PREM CONFIRM	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	9/9/2010
	FL WELCOME	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/30/2010
	GENDATA	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/28/2010
	LIFE HEADER	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/30/2010
	LIFE HEADER2	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/30/2010
	MARKETING AUTO	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/28/2010
	MARKETING HOME	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/28/2010
	MEDBODY1	FAP	00001	00002	1/1/1980		JDOE		Initial check in.	10/14/2010
	MEDBODY2	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	9/9/2010
	MEDFOOT1	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/30/2010
	MEDHEAD1	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/30/2010
	MEDHEAD2	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/30/2010
	NEXT PAGE BOTTO	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/28/2010
	SENDCOPY	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/28/2010
	SIGNATURE JONES	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/28/2010
	TRAININGCOMPAN	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/30/2010
	TRAININGCOMPAN	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/28/2010
	TRAININGCOMPAN	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/28/2010
	TRAININGCOMPAN	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/28/2010
	TRAININGCOMPAN	FAP	00001	00001	1/1/1980		1DOF		Initial check in	5/30/2010

- 2. Highlight the section you want to edit or view and click Ok. The section and its properties appear.
- **Note** If Open as Read only is checked on when you click OK, the section is opened as read only and can only be viewed. You cannot make changes to a Read Only section. When a section is opened as Read Only, another user will be able to check that section out and make changes to it.

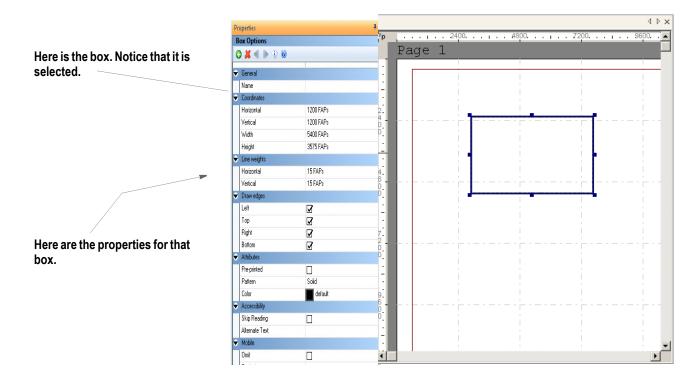
Properties			
Section Options		Page 1	
0 X ‡ 9 0			
🖝 General			Boat - Boat, motor trailer, and equipment physical damage coverage
 Margins 			for a range of hazards that can happen while you're motoring, sailing, launching, hauling, even storing your vessel. Also may protect against
Common margins			theft, vandalism, damage to another's property.
Тор	0 FAPs		ulen, validalishi, dallage to albuler s property.
Bottom	0 FAPs		
Left	1800 FAPs		
Right	1800 FAPs		
 Paper 			
Height	2728 FAPs		
Width	20415 FAPs		
Size	Custom		
Orientation	Portrait		
•	Auto size		
Information			
Section rules	(
Entry			

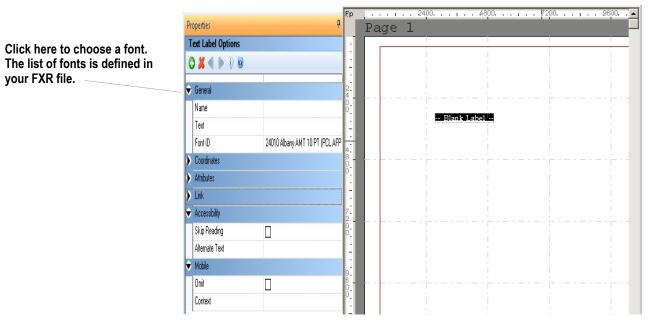
Studio shows you the section and its properties.

As you click on or select objects, the properties for that object are displayed. For example, if you click on a field, the field options for that field are displayed. If you click on a box or text label, the panel changes to show the options for those objects. Here is an example of field options:



Here is an example of how you edit box properties:





Here is an example of how you choose a font for a static text label:

Creating new fields and other objects on your section is as simple as clicking on the Insert menu or toolbar to select the object you want to insert and then using the mouse to indicate the location of that object on the section. You can drag and drop fields onto your section from the Field Bar or Extract Bar if you have defined fields in the Common Field Dictionary or Extract Data Dictionary.

When you create a new object, the property panel changes to reflect the current settings for your new object and lets you modify those settings to complete your definition.

3. Once you have completed the changes to a section, you can save your work and check the section back into the library for other users to access.

WORKING WITH GROUP OF SECTIONS

GROUPBEGIN

Use this section level rule to define the first section in a group of sections. A group is a set of sections delimited by a begin section and an end section that is processed as a single unit.

Using this rule, you specify which sections are grouped on the printed pages. Each GroupBegin rule must have a corresponding GroupEnd rule. With these rules you can:

- Expand boxes to surround a section group with user-defined margins
- Keep a group of sections together on a page
- Paginate vertically with headers, footers, and overflow sections at the group level
- Paginate horizontally with left and right margins that can contain lists
- Format fields with currently used rules
- Create nested groups
- Vary row heights by the tallest field size or set a standard height for all rows
- Pre-define the spacing between rows
- Set a minimum number of lines to be left on the first or last page
- Create a columnar layout

Syntax:

GroupBegin;GroupFunction(parameters(sub parameters))

The group functions include:

- Box
- GroupPagination
- List
- StayTogether
- Column

Using the Box Function

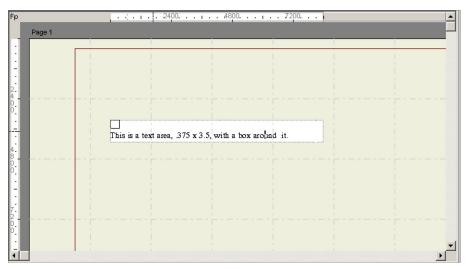
Use this function to expand the first box defined in the group to fit around all sections in the group. The Margin parameter lets you define the extra space to be added between the edge of the section and the box edges. The Margin sub parameters are

Parameter	Description
Left	Left margin size in FAP units
Тор	Top margin size in FAP units
Right	Right margin size in FAP units
Bottom	Bottom margin size in FAP units

Here is an example:

;GroupBegin; Box(Margin(20,20,20,20));;

The section would look like this:



The section must include a box that will be expanded by the GroupBegin rule's Box function around the text, as shown below:

```
11.11
                         22.22
                         33.33
                         44.44
                         55.55
                         66.66
                         77.77
                         88.88
                         99.99
                         99.99
                         88.88
                         77.77
                         66.66
                         55.55
This is a text area .375 x 3.5 with a box
around it.
```

This example expands the box around a section group and sets the margin to 20 FAP units between the outer edge of the section and the outer edge of the box. There are 2400 FAP units per inch.

Using the GroupPagination Function

Use this group function to define the requirements for keeping certain sections (groups) together on pagination. The GroupPagination parameters are:

Parameter	Description	
MinImagesOnCurrent	Defines the minimum number of sections required on the current page. The default is zero (0).	
	This rule counts all sections triggered in the group, even if a section has no size. It totals the section sizes to determine the minimum number of sections which can be placed in the remaining space on the page.	
	If a section has no size or is flagged as view only, the section is placed on the page.	
MinImagesOnNext	Defines the minimum number of sections required for new and next page. The default is one (1).	
NeverSplit	Requires that all sections within the group must remain together on same page-pagination can never occur within the group. The default is No.	
CheckNextPage	Requires that the next page be checked to confirm that the entire group cannot fit on the next page before splitting can occur. The default is No.	

The following example requires that a minimum of two sections appear on the current page, and a minimum of three sections appear on any subsequent pages. This example also requires that the next page be checked to confirm that the entire group cannot fit on the next page before splitting can occur. In addition, the second section is defined as the header for the group and is to be copied on overflow. Plus the fourth section is defined as the footer for this group.

Here's an excerpt from the DDT file for the first section:

Here's an excerpt from the DDT file for the second section:

```
/* This section uses these rules */
<Image Rules>
;SetImageDimensions;98,0,1142,19718,0,0,0,0;
;SetOrigin;Rel+0,Max+100;
;SetGroupOptions;header,copyonoverflow;
```

Here's an excerpt from the DDT file for the third section:

```
/* This section uses these rules */
<Image Rules>
;SetImageDimensions;98,0,357,19699,0,0,0,0;
;SetOrigin;Rel+0,Max+100;
```

Here's an excerpt from the DDT file for the fourth section:

```
/* This section uses these rules */
<Image Rules>
;SetImageDimensions;98,0,621,6124,0,0,0,0;
;SetOrigin;Rel+0,Max+100;
..........
;SetGroupOptions;footer;
;GroupEnd;;
```

Using the List Function

...

A list is a column of data on a section that is defined as a single field in the data definition table (DDT) and is populated by the BldGrpList rule.

The List function works with the BldGrpList rule to print sections containing lists, or columns, side by side in rows. The tallest field in the row and the GroupBegin:List parameters, *MinSpacing* and *AddSpacing*, determine the row height. The List sub parameters are:

Parameter	Description	
AddSpacing	Adds additional spacing in FAP units between rows of data. There are 2400 FAP units per inch.	
MinSpacing	Defines the minimum size in FAP units for each row of data.	
MinLines	Defines the minimum number of lines to be printed on the first page of a section. When pagination occurs, if the number of lines printed on the first page is less than the MinLines amount, the entire section is moved to the second page.	
MinLinesCont	Defines the minimum number of lines to be printed on the last page of a section. When pagination occurs, if the number of lines printed on the last page is less than the MinLinesCont amount, lines are taken from the preceding page to meet the minimum.	

Here is an example:

```
GroupBegin;List (MinSpacing(800) AddSpacing(200) MinLines(12)
MinLinesCont(5) );;
; GroupBegin;List(AddSpacing(65));;
```

This example causes 65 FAP units to be inserted between the groups of sections.

Using the StayTogether Function

Use this function if you do not want the group of sections to be split between pages and overflow onto a new page if there is room on the current page for the entire group. The dimensions of the group of sections cannot be larger than the dimensions of the page.

Note Also keep in mind that you cannot nest a StayTogether with a column to keep the column section together. If you try to use a StayTogether over all the sections you want to organize into columns, the results will not be what you expect.

Here is an example:

```
;GroupBegin;StayTogether;;
```

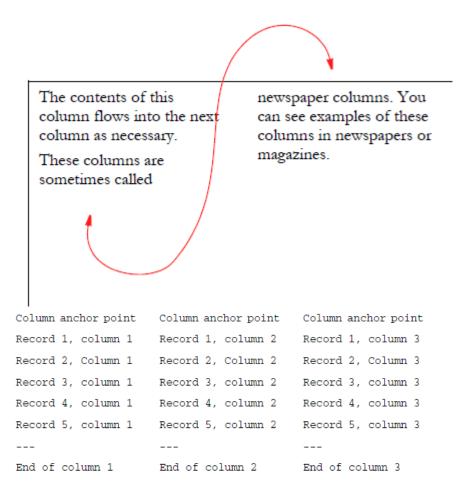
This example keeps a group of sections together when overflow forces them onto a new page.

Using the Column Function

Use the Column group function to create wrapping or and straight columns.

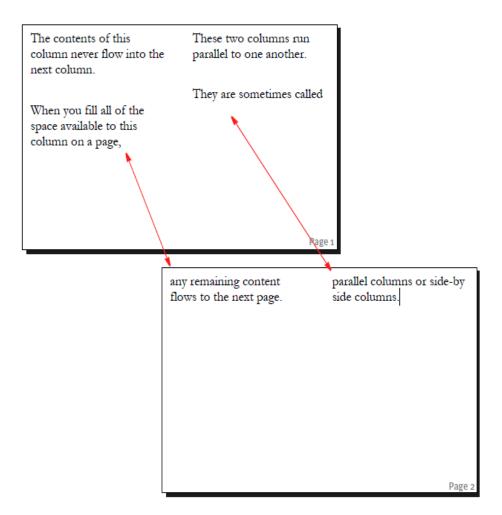
Creating wrapping columns

Use the Wrap parameter to create newspaper style columns where the column contents flow from the top of a column to the bottom and then to the top of the next column. All columns have the same width and the same amount of space between them. There are a fixed number of columns on the page.



Creating straight columns

Use the Straight parameter to create columns whose contents do not flow from one column to the next. Instead, these columns are not connected and run parallel to one another. Straight columns are paginated independently. If the contents of one column exceed the page, the remaining contents appear in that same column on a second page. All the usual overflow, header, and footer considerations still apply.



Column function parameters

Here is a list of the parameters you can use with the Column function.

Parameter	Description
Wrap	Indicates the text in the columns will wrap. No other parameters are required. Wrapping is done by default, unless you use the Multiple or Straight parameter.
Straight	Indicates the text will not be wrapped from one column to the next. No other parameters are required. The section definition controls the width and separation of the columns. When you use straight columns, you define the starting columns with a GroupBegin and the ending column with an GroupEnd.

Parameter	Description	
Balanced()	The balanced sub-parameters determine how sections are processed if there is less than a full page of sections. The default is Left.	
	Left	
	Use this sub-parameter to equally divide the sections between the columns on the page. If there is a remainder, the left most column will be the longest column.	
	Unbalanced	
	Use this sub-parameter to add sections to a column until there is no more room in that column on that page. The system then places remaining sections in the second column of that same page. The system repeats this process until all columns on the page are filled. The system then places any remaining sections in the first column of the next page and continues filling the columns in this manner.	
ColCount()	Defines how many columns will be on a page. You must enter a positive number.	
ColSeparation()	Defines, in FAP units, how much space is between columns. You must enter a positive number. The default is zero. There are 2400 FAP units per inch.	
ColWidth()	Defines, in FAP units, the width of each column. If you omit the width, the system uses the width of the widest section in the group. You cannot enter a negative number. There are 2400 FAP units per inch.	
Single	Indicated there will be a single straight column on the page. Single is the default unless you specify Multiple.	
Multiple	Indicates there will be multiple straight columns on the page. You must embed the straight groups within a group. You do this using the Multiple group parameter.	
Debug	Use this parameter to write column-processing information into the log file for debugging purposes.	

Keep in mind that...

- Wrap and Straight are mutually exclusive.
- Multiple and Single are mutually exclusive.
- Straight is mutually exclusive with Balanced, ColCount, ColWidth, and ColSeparation.
- Multiple is mutually exclusive with Wrap, Straight, Balanced, ColCount, ColWidth, and ColSeparation.
- You cannot nest a Wrap within a Wrap, Straight, or Multiple.
- You cannot nest a Straight within a Wrap or Straight.
- You cannot nest a Straight within a Multiple.
- You cannot nest a Multiple within a Multiple.

Example 1: Wrapped balanced columns

Assume you have a long list of narrow sections which you want to flow down the page until they reach the bottom of the page. The next section should appear at the top of the second column on that page.

In addition, you want the sections to move over to the right so they do not overlap the

sections in the first column and you want to repeat this layout until there are three columns of sections. The columns should be 6000 FAP units wide, balanced as much as possible, and separated by 1/4 inch (600 FAP units) gap. Each section is 1800 x 5200 FAP units. Section margins are 600 FAP units for the top, bottom, left, and right. The text area is 4000 FAP units in width and can grow and shrink. Up to two hundred characters of data can be moved into each text area.

Based on this criteria, here is an excerpt from the DDT file for the first section:

```
/* This section uses these rules */
<Image Rules>
;SetImageDimensions;...
;SetOrigin;Rel+0,Max+0
;GroupBegin;Column(Wrap Balanced(Left) ColCount(3) ColWidth(6000)
ColSeparation(600));
```

•••

Here are excerpts from the DDT file for the second section:

```
/* This section uses these rules */
<Image Rules>
;SetImageDimensions;...
;SetOrigin;Rel+0,Max+0;
;IncOvSym;QAICOL2ASYM,QAICOL2A;
;TextMergeParagraph;;
....
```

/* The following fields override the lower level definitions for this
section only.*/
<Image Field Rules Override>
;0;1;Column Input Area A;40;200;Column Input Area A; 0;200;;Move_It;
@GETRECSUSED,QAICOL2A,QAICOL2ASYM/
31,MOVEITA;N;N;N;N;650;1020;12110;

After the last section, the column ends with:

```
/* This section uses these rules */
<Image Rules>
;SetImageDimensions;...
;SetOrigin;Rel+0,Max+0;;
;GroupEnd;;;
```

This is how the section should look:

Testing column data. 001 Each image is 1800 x 5200 fap units. Image margins are: top,	Testing column data. 004 aaaaaaaaaaaaaaaaaaa aaaaaaaaaaaaa	Testing column 007 aaaaaaaaaaaaaaaaa aaaaaaaaaaaaaaa aaaaa
bottom, left, & right are 600 fap units.		
	Testing column data. 005 Two hundred characters of data	Testing column 008 aaaasaaaaaaaaaaa
Testing column data.	are moved into each	aaaaaaaaaaaaaaa
002 Text area is	text	aaaaaaaaa
4000 fap units in	area.902345678910034	
width and can grow	56789110345678912034	
and shrink.	56789130345678914034	
	56789150345678916034	
	56789170345678918034	Testing column
	567891903456789	009
		aaaaaaaaaaaaaaaaaaaaa
Testing column data.		aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
003 Two hundred		aaaacaaaaa
characters of data		
are moved into each	Testing column data.	

Example 2: Multiple Straight columns

Assume you have three columns of sections which you want to output as straight columns. When either of the columns runs into a page footer or off the bottom of the page, you want the sections continued on the next page.

The data in the extract file is contained in three separate groups of continuous overflow records, which may have up to two hundred characters of information.

Based on this criteria, here is a sample solution:

```
/* Excerpt from the DDT file for the first column anchor point. */
<Image Rules>
;SetImageDimensions;98,0,2098,6600,600,600,600,600;
;SetOrigin;Abs+0,Abs+0,,Store(VAR1);
;GroupBegin;Column(Debug Multiple);
;GroupBegin;Column(Straight);
/* Excerpt from the DDT file for the second column anchor point. */
<Image Rules>
;SetImageDimensions;98,0,2098,6600,600,600,600,600;
;SetOrigin;VAR1.right+600,VAR1.top+0,,Store(VAR2);;
;GroupBegin;Column(Straight);
/* Excerpt from the DDT file for the third column anchor point. */
<Image Rules>
;SetImageDimensions;98,0,2098,6600,600,600,600,600;
;SetOrigin;VAR2.right+600,VAR2.top+0;;
;GroupBegin;Column(Straight);
/* Excerpt from the DDT file for the first column section*/
```

```
<Image Rules>
;SetImageDimensions;98,0,1749,6634,600,600,600,600;
;SetOrigin;Abs+0,Max+0;
; IncOvSym; QAICOL2C11SYM, QAICL2C1;
;TextMergeParagraph;;;
<Image Fields>
<Image Field Rules Override>
;0;1;Column Input Area C1;40;200;Column Input Area
C1;0;200;;Move It;@GETRECSUSED,QAICL2C1,QAICOL2C11SYM/
31, MOVEITC1; N; N; N; N; 733; 917; 16010;
/* Excerpt from the DDT file for the second column section */
<Image Rules>
;SetImageDimensions;98,0,1749,6634,600,600,600,600;
;SetOrigin;VAR1.right+600,Max+0;;
; IncOvSym; QAICOL2C21SYM, QAICL2C2;
;TextMergeParagraph;;;
<Image Fields>
<Image Field Rules Override>
;0;1;Column Input Area C2;40;200;Column Input Area
C2;0;200;;Move It;@GETRECSUSED,QAICL2C2,QAICOL2C21SYM/
31, MOVEITC2; N; N; N; N; 733; 917; 16010;
/* Excerpt from the DDT file for the third column section ^{*/}
<Image Rules>
;SetImageDimensions;98,0,1749,6634,600,600,600,600;
;SetOrigin;VAR2.right+600,Max+0;;
; IncOvSym; QAICOL2C31SYM, QAICL2C3;
;TextMergeParagraph;;
<Image Fields>
<Image Field Rules Override>
;0;1;Column Input Area C3;40;200;Column Input Area
C3;0;200;;Move It;@GETRECSUSED,QAICL2C3,QAICOL2C31SYM/
31, MOVEITC3; N; N; N; N; 733; 917; 16010;
/* Excerpt from the DDT file for the End of the first column. */
<Image Rules>
;SetImageDimensions;98,0,1749,6634,600,600,600,600;
;SetOrigin;Abs+0,Max+1200;
;GroupEnd;;
/* Excerpt from the DDT file for the End of the second column. */
<Image Rules>
;SetImageDimensions;98,0,1749,6634,600,600,600,600;
;SetOrigin;VAR1.right+600,Max+1200;;
;GroupEnd;;
/* Excerpt from the DDT file for the End of the third column. */
<Image Rules>
;SetImageDimensions;98,0,1749,6634,600,600,600,600;
;SetOrigin;VAR2.right+600,Max+1200;;
;GroupEnd;;;;
;GroupEnd;;;;
```

Here is an excerpt from the FORM.DAT file:

;CWNG;CIS;QaiColD;Testing StraightColumns;N;;QAICLST1|DS<Customer(1)> / QAICL2C1|DSW<Customer(1)>/EndCol1|DSW<Customer(1)>/QAICLST2|DS <Customer(1)>/QAICL2C2|DSW<Customer(1)>/EndCol2|DSW<Customer(1)> / QAICLST3|DS<Customer(1)>/QAICL2C3|DSW<Customer(1)>/EndCol3|DSW <Customer(1)>;

Here is an excerpt from the SETRCPTB.DAT file:

```
;CWNG;CIS;QaiColD;;;Customer;;0;0;0;0;11,HEADER,31,030167994401;
;CWNG;CIS;QaiColD;QAICLST1;;Customer;;0;0;0;1;31,MOVEITMC1;
;CWNG;CIS;QaiColD;QAICL2C1;;Customer;31,MOVEITC1;1;0;0;1;;
;CWNG;CIS;QaiColD;EndCol1;;Customer;;0;0;0;1;31,MOVEITMEND;
;CWNG;CIS;QaiColD;QAICLST2;;Customer;;0;0;0;1;31,MOVEITMC2;
;CWNG;CIS;QaiColD;QAICL2C2;;Customer;31,MOVEITC2;1;0;0;1;;
;CWNG;CIS;QaiColD;EndCol2;;Customer;;0;0;0;1;31,MOVEITMEND;
;CWNG;CIS;QaiColD;QAICL2C3;;Customer;;0;0;0;1;31,MOVEITMC3;
;CWNG;CIS;QaiColD;QAICLST3;;Customer;;0;0;0;1;31,MOVEITMC3;
;CWNG;CIS;QaiColD;QAICL2C3;;Customer;31,MOVEITC3;1;0;0;1;;
;CWNG;CIS;QaiColD;PAICL2C3;;Customer;31,MOVEITC3;1;0;0;1;;
```

Keep in mind these requirements and restrictions when defining groups:

- Each GroupBegin section must have a corresponding GroupEnd section. Either of these sections can be a blank section.
- If you are using conditional sections, make sure the triggers in the SETRCPTB.DAT file for the GroupBegin and GroupEnd sections are the same.
- Group footers do not have to be defined as the first section as form footers in the form definition file (FORM.DAT).
- Do not use an absolute Y coordinate for a group header or group footer.
- When a section contains both a GroupBegin rule and a SetGroupOptions rule, the GroupBegin rule must come first.
- When a section contains both a GroupEnd rule and a SetGroupOptions rule, the SetGroupOptions rule must come first.
- Variable field data inside overflow group header sections will propagate to the new page during group pagination if the field scope is set to Form.

You must set all group pagination section options (footer, header, and copyonoverflow) using the SetGroupOptions rule.

Working with Embedded Sections

Few other document composition tools uses sections as building blocks for forms. In most, you work on individual forms as a whole. Since Studio users sometimes import content from other tools, Studio provides a way to break imported or converted forms into sections. These sections are called *embedded sections* and are maintained using Form or Template manager.

Embedded sections provide a way to edit the content of a form as though it was a section. You can also *unembed* an embedded section if you want to replace it with another section or make that content available for use on another form.

For more information on using embedded sections, see *Using Embedded Sections* on page 195.

Adding Objects

Adding objects to a section is easy in Studio. You simply open a section or create a new section, then follow the steps below. You can select the type of object you want to add two ways:

- From the Insert menu
- From the toolbar

From the Insert menu

Select the desired object you wish to insert from the Insert menu. Draw it out in the desired location on your section. You can reposition that object by clicking on it to select it, then using your mouse to move it or by changing it's location in the objects options or by clicking on the object to select it, then using your keyboard arrows to move it.

From the toolbar

_

Use these icons:

Click	То
	Insert a bar code
¢	Insert a bookmark
Ü	Insert a box
*	Insert a chart
×	Insert a field
	Insert a graphic
N	Insert a guide
0	Insert an index, table of contents, or table of figures
101	Insert a line
	Insert a note
	Insert a shaded area
1 1 1	Insert a signature
	Insert a table

Click	То
	Insert a text area
Τ	Insert a text label
4	Insert a vector drawing

Note All section objects have default settings. You can override these settings by using the Manage, System, Settings option. Select Options by Group and scroll down to the Default groups, such as DefaultBarCode or DefaultBox.

Once you select the object and position it in your section, use the options to customize the object to meet your needs. Here is an example of the options for a field:

1.12	operties	q
	ield Options)
Ŷ	General	
	Name	FIELD
	Prompt	
	Font ID	24010 Albany AMT 10 PT (PCL AFF
	Туре	Alphanumeric
	Length	30
	Format	
	Task Comments	
•	Coordinates	
•	Attributes	
•	Documerge	
۶	Rule	
•	Entry	
•	Accessibility	
	Skip Reading	
•	Mobile	
	Omit	
	Context	
•	Link	
	Link Type	None

CREATING BAR CODES

Studio lets you add the following types of bar codes to a section:

- *Australia Post Bar Code* on page 298
- Codabar Compressed
- Codabar Standard
- Code 39 1:1:2:2
- Code 39 1:1:3:3
- Code 39 1:2:4:5
- Code 39 3:1 Mod 43 Check Digit
- Code 93
- Code 128 Automatic Add-On
- Code 128 Start Code A
- Code 128 Start Code B
- Code 128 Start Code C
- Data Matrix. For more information, see *Printing Bar Codes in PDF Files* on page 316.
- EAN-13 Digit
- EAN-8 Digit
- Intelligent Mail Bar Code (4-State Customer Bar Code). For more information, see *Data Matrix 2-D Bar Codes* on page 302.
- PLANET Code Bar Codes on page 312
- Interleaved 2 of 5 1:1:3:3
- Interleaved 2 of 5 Mod 10
- Japan Post. For more information, see Japan Post Bar Code on page 309
- MSI Mod 10 Check Digits
- MSI Mod 10/10 Check Digits
- MSI Mod 11/10 Check Digits
- MSI no Check Digit
- PDF417. For more information, see *Printing Bar Codes in PDF Files* on page 316.
- PLANET Code® bar codes. For more information, see *PLANET Code Bar Codes* on page 312.
- UPC 2 Digit Add-On
- UPC 5-Digit Add-On

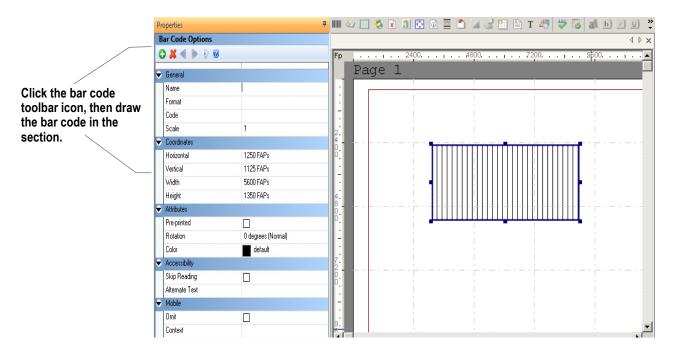
- UPC-A 1:2:3:4 11 Digit
- UPC-EI 6 Digit
- UPC-EO 6 Digit
- UPC-EO Zero Suppress 10 Digit
- ZIP Code (can be 5, 9, or 11 digits)

There are several ways to create a bar code. Here is a summary of the approaches:

ADDING A BAR CODE OBJECT

Follow these steps to add a static bar code object:

1. Insert a bar code by clicking on the bar code icon from the tool bar or Insert menu. Draw the bar code out in the desired location on the section.



General Bar Code Options

Assign general information:

Name	(Optional) Enter a name for the bar code. Assign a unique name to facilitate reference to the bar code for editing or other purposes. Although a bar code name is not required, it is recommended that a name be provided. In the absence of a name, the horizontal and vertical coordinates of the bar code are used to locate\reference the bar code. These coordinates may not have significance or meaning to users.
Format	Select the bar code format • Code 39 1:1:3:3 • Code 39 1:1:2:2 • Code 39 1:2:4:5 • Code 39 3:1 Mod 43 Check Digit Note: Choose the one that best meets your requirements. In the absence of a specification, try a sample of all three and choose the one that comes the closest to your needs. • Code 93 • Code 128 Start Code A • Code 128 Start Code B • Code 128 Start Code C • Code 128 Automatic Add-On • Codabar Standard • Codabar Standard • Codabar Compressed • Data Matrix • EAN-8 Digit • Intelligent Mail bar code (USPS 4CB) • Intelligent Mail bar code (USPS 4CB) • Interleaved 2 of 5 1:1:3:3 • Interleaved 2 of 5 Mod 10 • Japan Post • MSI no Check Digit • MSI Mod 10/10 Check Digits • MSI Mod 10/10 Check Digits • MSI Mod 11/10 Check Digits • UPC-A 1:2:3:4 11 Digit • UPC-EO Zero Suppress 10 Digit • UPC-EO I 6 Digit • UPC-EI 6 Digit • UPC-EI 6 Digit • UPC 2 Digit Add-On • Zip Codes (can be 5, 9, or 11 digits)
Symbol Size	Select the desired symbol size. Symbol size displays when the format is set to Data Matrix.
Font ID	Select the desired font. The Font ID option displays when the format is set to either Data Matrix or PDF

Code	Enter the bar code data.
Scale	Select a scale factor from 0.5 to 5.0. The scale factor affects the bar code width. For example, a scale factor of 2 doubles the width of the bar code but maintains the same ratio of bars and spaces.

Coordinates

Assign coordinates:

Horizontal	The horizontal (left) starting position
Vertical	The vertical (top) starting position
Width	Set the width. Note: The width on some bar code formats such as zip code is based on the data entered and cannot be changed.
Height	Set the height Note: The height for some bar code formats such as zip code and cannot be changed.

Attributes

Assign attributes:

Pre-printed	Click this option to tell the system NOT to print this object when you print the Section
Rotation	 Select a rotation. 0 degrees: Normal 90 degrees: Downward 180 degrees: Upside down 270 degrees: Upward.
Color	Select the color or use the default. If you want the object to print in this color, click in the Print in color field. Otherwise, the system will print it in black

Note

Using a preprinted flag on an object can be useful during forms creation or when test printing your forms. You may be using letterhead or special paper that has the company name or logo already embossed on the paper. Inserting a text label or logo on your form in the same location as the company name or logo helps to ensure that space isn't inadvertently written over by other objects. These objects would 'reserve' that space on the form. You may wish to include Pre-printed objects when test printing the form to compare against your special paper to make sure that there is enough space on the special paper for the non Pre-printed objects. By default, the Print dialog will not display a Pre-printed option. Any objects flagged with Pre-printed will not print on the form.

Accessibility

Property attributes associated with Bar codes:

	If checked on, the object is excluded from being read by assistive technology.
Alternate Text	Enter the alternate text to use.

Mobile

Property attributes associated with Mobile:

Omit	Select this check box, if you do not want the object or resource to be included in the Mobile Output.
Context	Select this option to pick from a list of available tags or add a new one on the particular object.

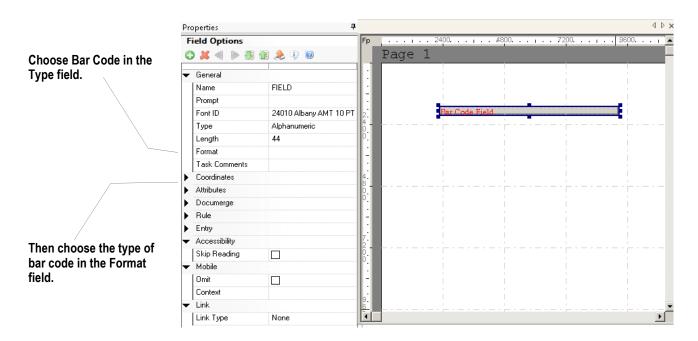
Note This option requires Documaker Mobile. If you have not purchased and installed Documaker Mobile the required mobile options will be disabled. To purchase Documaker Mobile, visit *My Oracle Support* website or contact your Oracle Sales representative.

Adding a Bar Code as a Field

Follow these steps to add a bar code as a field:

- 1. Add a field to your section.
- 2. As you specify the property information for the field, select Bar Code in the Type field and then choose from numerous bar code types in the Format field. If the bar code requires a font (for example Data Matrix bar code), specify the Font ID. Enter the data for the bar code.

Here is an example:



Australia Post Bar Code

The new Australia Post bar code lets you generate the 4-State bar code. This bar code comprises four types of bars (the four states), each of which has a distinct name, value and bar code symbol.

Barcode Format



There are three bar code structures added: the Standard Customer bar code, Customer bar code 2, and Customer bar code 3.

- The Standard Customer bar code uses an FCC of 11 (or '87 or 45', or 92), allows 8 digits to be encoded in the Delivery Point Identifier (DPID) field, but does not include any customer data.
- The Customer bar code 2 format uses an FCC of 59, allows 8 digits to be encoded in the DPID field, and also allows 16 bars of free-format customer data to be added.
- The Customer bar code 3 format uses an FCC of 62 (or 44), allows 8 digits to be encoded in the DPID field, and allows 31 bars of free-format customer data to be added.

Each bar code contains the following bars and fields:

- **Start bars:** The first two bars in any bar code belong to the Start Bars. These bars always have the bar values of '1' and '3', respectively. The Start Bars ensure that the beginning of a bar code can never be mistaken, even when the bar code is upside down.
- Format Control Code (FCC) Field: This field identifies the bar code's format. This field always occupies bar positions 3 to 6 in every bar code.
- Sorting Code Field (DPID): DPID field identifies the Australia Post Sorting Code, an eight-digit number that encodes the destination of a piece of mail. This field occupies bar positions 7 to 22 in the bar code.
- **Note DPID**s uniquely identify the point to which Australia Post delivers the mail. The point can be the letterbox of a house, a PO Box, a Rural MailBag, or other point. Each such point in Australia is allocated a unique DPID.
 - **Customer Information Field:** This field is only available in the Customer Bar code 2 and 3 formats. Customers can include their own information in the bar code.
 - Filler Bar: If customers cannot fill the above field, they can use filler (value 3) bars to fill the gap in customer information field.
 - **Reed Solomon Error Correction Parity values:** The Reed Solomon Error Correction bars perform a 'back-up' or 'quality control' function for the bar code. The bars enable the bar code to be resistant to errors or erasures. These errors might be caused by faulty printing or too much reflectance from envelope windows, or other factors such as smudging. There are always 12 of these bars.
 - **Stop Bars:** The last two bars in any bar code comprise the Stop Bars. The bars have the bar values of '1' and '3' respectively. The Stop Bars ensures that the bar is read the right way around, even when the bar code is upside down.

Adding an Australia Post Bar Code

In Studio, you can place an Australia Post bar code in a field by following these steps:

- 1. Insert a field in a section. For the field type, choose Bar Code.
- 2. Choose **Australia Post** in the Format field and enter appropriate information to define the bar code.

Pr	operties		Ф
F	ield Options		
0) 🗶 🜒 🍉 💹	1 🔔 🥘 🕖	
÷	General		-
	Name	IMPB_FIELD1	
	Prompt		
	Font ID	18010 Albany AMT 10 PT (PCL AFP XER PS Oth)	
	Туре	Bar Code	
	Length	34	
	Format	Intelligent Mail Package Barcode (IMpb)	
	Scale	Data Matrix	िर्षे
	Task Comments	EAN-13 Digit EAN-8 Digit	
•	Coordinates	Intelligent Mail Barcode (USPS 4CB)	
	Horizontal	Intelligent Mail Package Barcode (IMpb) Interleaved 2 of 5 1:1:3:3	
	Vertical	Interleaved 2 of 5 Mod 10	
	Width	Japan Post	

3. For **Bar code** options, enter appropriate values in the Code field.

🔁 🖊 🜒 🕨 🥹 🥹	
General	
Name	BAR_STATIC1
Format	Australia Post
Code	1112345678
Scale	1
Coordinates	
Horizontal	1.875 Picas
Vertical	7.250 Picas
Width	8.922 Picas
Height	0.675 Picas
Attributes	
Pre-printed	
Rotation	0 degrees (Normal)
Color	default
>	
Alternate Text	

Note Code field takes the first two values as part of FCC; the next eight values as part of DPID and rest values as part of Customer information. While Standard Customer Bar Code does not include any customer data, customer bar code 2 and 3 allow 16 bars and 31 bars of free-format customer data to be added respectively.

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÷	General				
	Name	BAR_FIELD1			
	Prompt				
	Font ID	11010 Times-Roman 10 PT (PCL AFP >			
	Туре	Bar Code			
	Length	20			
	Format	Australia Post			
	Scale	0.5			
	Task Comments				
۶	Coordinates				
¢	Attributes				
	Scope	Section			
	Send Copy To				
	Required				
	Hidden				

Australia Post Bar code formats

Bar code Format	FCC	No.of Bars
Standard Customer Bar Code	11/87/45/92	37
Customer Bar Code 2	59	52
Customer Bar Code 3	62/44	67

Here are some examples:

Item	Example	Comments	
Standard Customer Bar Code	8712345678	Here 87 represents FCC and 12345678 represents DPID values	
Customer Bar Code 2	5912345678abcd	Here 59 represents FCC, 12345678 represents DPID and abcd represents values for Customer Data	
Customer Bar Code 2	5998765432aA-#7	Here 59 represents FCC, 98765432 represents DPID and aA#7 represents values for Customer Data	
Customer Bar Code 3	6212345678ab	Here 62 represents FCC, 12345678 represents DPID and ab represents values for Customer Data	
Customer Bar Code 3	4412345678abc-#EF234	Here 44 represents FCC, 12345678 represents DPID values and abc#EF234 represents info on Customer Data	

Note 1. Source data of bar code should be minimum of 10 characters in length and maximum of 20 characters.

2. FCC can be 11/87/45/92/59/62/44.

3. Sorting code or DPID should contain only digits.

4. Current implementation used C table encoding for Customer information length should not be more than 5 characters in case of customer bar code 2.

5. Customer bar code 3 contains 31 bars in customer information field. So for a customer information field of 31 bars, only 5 characters can be encoded using C table encoding technique. Hence it should be 10 characters.

6. In case of standard customer bar code, the length should be 0.

7.Customer information can contain 0-9, a-z, A-Z, space and #.

Data Matrix 2-D Bar Codes

A Data Matrix bar code consists of black and white squares arranged in either a square or rectangular pattern. Depending on the size of the bar code, you can encode up to two kilobytes of text or raw data.

You can use the Data Matrix bar code with printer finishing equipment, such as equipment from manufacturers like Gunther or Pitney Bowes. Here is an example of a Data Matrix 2-D bar code:



Note

While the maximum number of alphanumeric characters for some symbol sizes, such as 88 x 88, in the Data Matrix specification can exceed 1024, the maximum number of alphanumeric characters for a field in a Documaker section (FAP) is 1024. So these larger symbol sizes are effectively restricted to 1024 characters.

The following table shows the complete list of Data Matrix symbol sizes, the number of regions in that size, and the maximum number of numeric characters stored in it.

With ASCII encodation, two numerics (1, 2, 3, 4, and so on) can be encoded into a single *data code word*, while a single alphabetic character or symbol (A, B, C, @, #, \$, and so on) requires a single data code word. So, if you are storing only numbers in the bar code, you can store more information than if you were storing alphabetic characters.

For example, the 12 x 12 symbol size allows for five data code words. This means you can encode 10 numeric or five alphabetic characters or symbols or some combination, such as eight numerics and one alphabetic character or symbol.

Data Matrix Bar Code

Symbol Size Regions		Max Numeric	Data Code Words
10 x 10	1	6	3

Data Matrix Bar Code

Symbol Size	Regions	Max Numeric	Data Code Words
12 x 12	1	10	5
14 x 14	1	16	8
16 x 16	1	24	12
18 x 18	1	36	18
20 x 20	1	44	22
22 x 22	1	60	30
24 x 24	1	72	36
26 x 26	1	88	44
32 x 32	4	124	62
36 x 36	4	172	86
40 x 40	4	228	114
44 x 44	4	288	144
48 x 48	4	348	174
52 x 52	4	480	204
64 x 64	16	560	280
72 x 72	16	736	368
80 x 80	16	912	456
88 x 88	16	1,152	576
96 x 96	16	1,392	696
104 x 104	16	1,632	816
120 x 120	36	2,100	1050
132 x 132	36	2,608	1304
144 x 144	36	3,116	1558
8 x 18	1	10	5
8 x 32	2	20	10
12 x 26	1	32	16
12 x 36	2	44	22
16 x 36	2	64	32

Data Matrix Bar Code

Symbol Size	bol Size Regions		Data Code Words
16 x 48	2	98	49

Data encoding

Data mapped to the bar code symbol is encoded using ASCII encodation. The errorcorrecting code ECC 200 is used so damaged bar code symbols can still be read.

Standard ASCII characters (those at code points 0 - 127), as well as extended ASCII characters (those at code points 128 - 255), can be encoded in the bar code. Extended ASCII characters may contain, for example, accented characters needed for French, German, and a few other European languages. Each extended ASCII character requires an additional byte of storage in the bar code, so this must be considered when determining how many characters might need to be encoded in the bar code, and which symbol size to use.

Note Many handheld bar code scanners are not capable of scanning Data Matrix bar codes that contain extended ASCII characters.

Fonts

Documaker draws the Data Matrix bar code using fonts instead of graphic commands. The fonts are listed below and referenced in the REL121.FXR font cross-reference (FXR) file. The font IDs for the Data Matrix fonts are numbered 13504, 13505, and 13506.

The TrueType, PostScript, PCL, AFP (240 and 300 DPI), and Metacode fonts you need to produce the bar code are included in version 11.3 and listed below:

Size	Font name
TrueType	
All sizes	dmttf
Postscript	
All sizes	dmpfb
PCL	
4 point	fpdmn4.pcl
5 point	fpdmn5.pcl
6 point	fpdmn6.pcl
AFP 240 DPI	
4 point	x0dadmn4.fnt, c0fadmn4.240 (Coded Font, Character Set)
5 point	x0dadmn5.fnt, c0fadmn5.240

Size	Font name
6 point	x0dadmn6.fnt, c0fadmn6.240
AFP 300 DPI	
4 point	x0dadmn4.fnt, c0fadmn4.300 (Coded Font, Character Set)
5 point	x0dadmn5.fnt, c0fadmn5.300
6 point	x0dadmn6.fnt, c0fadmn6.300
Metacode	
4 point	fxdmn4.fnt Rotations: f9dmn4.fnt, f1dmn4.fnt, f2dmn4.fnt (90, 180, 270)
5 point	fxdmn5.fnt Rotations: f9dmn5.fnt, f1dmn5.fnt, f2dmn5.fnt
6 point	fxdmn6.fnt Rotations: f9dmn6.fnt, f1dmn6.fnt, f2dmn6.fnt

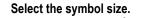
Adding a Data Matrix bar code

In Studio, you can place a Data Matrix bar code in a field by following these steps:

- 1. Insert a field in a section. For the field type, choose Bar Code.
- 2. Choose Data Matrix in the Format field.
- 3. Select the symbol size.

	operties	
	ar Code Option	ns
Ç	🕽 🖊 🜒 🕨 \vartheta	Ø
÷	General	
Г	Name	
	Style	
	Format	Data Matrix
r.	Symbol Size	12x12
	Font ID	
L	Code	
	Scale	1
÷	Coordinates	
E	Horizontal	1500 FAPs
L	Vertical	1450 FAPs
L	Width	5200 FAPs
	Height	2225 FAPs
•	Attributes	
L	Pre-printed	
L	Rotation	0 deg.: Normal
L	Color	default

- 4. In the Font ID field, select one of the Data Matrix bar code fonts (13504, 13505, or 13506) which are included with Documaker.
- 5. Use the Move_It rule to map data to this field.



Intelligent Mail Package Bar Code

Documaker now supports the Intelligent Mail Package Barcode (IMpb) bar code.

The Intelligent Mail Package Barcode used by the United States Postal Service (USPS) provides information about the mailing package, the payment channel information, the mail class and any extra services offered with the mail piece. The IMpb should not be confused with the Intelligent Mail Barcode (USPS 4CB) The Intelligent Mail barcode is a height modulated barcode, consisting of bars of 4 heights while the Intelligent Mail Package barcode has a consistent height and is based on the Code 128 barcode.

Please refer to the BarcodePackageImSpec.pdf publication at https://ribbs.usps.gov/ index.cfm?page=intellmailpackage for full details on the specification. Information herein is sourced from that document for convenience.

This is an example of an Intelligent Mail Package Barcode (iMpb). In this sample the barcode is drawn to include the optional solid black identification bars and human readable representation of the barcode but these items are not required:



Note Do not use figures shown here as a basis for exact measurement as they are not produced to scale in this document.

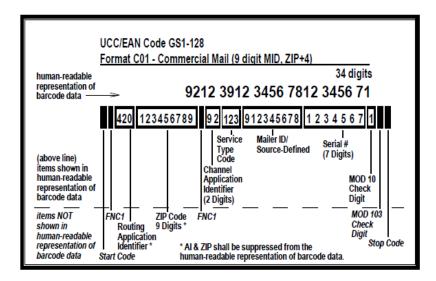
To use the IMpb in Documaker, apply a barcode object or a variable field with a type of barcode to the desired Section within Documaker Studio. Choose the Intelligent Mail Package Barcode (IMpb) from the Format pick list. The Format pick list selection is the same for both static barcodes and field barcodes.

Note The barcode object is typically used for static barcodes whose value is known at design time while a variable field with a type of barcode is generally used when a dynamic barcode is required whose value is obtained from recipient data.

Note The IMpb does not require a specialized font.

The current USPS Intelligent Mail Package bar code specification allows for 3 types or "constructs" of the bar code: Commercial, Online, and Retail. Depending on the type of bar code being constructed, its length can be 22, 26, 30, or 34 digits long.

This figure shows the details of Format C01 of the Commercial barcode construct:



In general, the bar code contains routing information and tracking information.

As noted, the length of the code will vary depending on its construct. Commercial, Retail, On-line, etc require certain content with varying lengths as outlined in the chart below.

Data Field	Field Length	Description
Postal code Application ID	3	3-digit GS1 Application Identifier that is used to designate the presence of a delivery Postal Code within a single Postal Authority. This field shall always be "420" and, shall precede the Destination ZIP Code if such routing information is provided.
Zip Code	5 or 9	
Channel Application ID	2	Valid Channel Application Identifiers are "91", "92", "93", "94", and "95".
Service Type Code	3	
Source Identifier	2	Used only in conjunction with Channel Application Identifier "94".
Channel Identifier	1	Used and encoded only in Postal Service- created barcodes (Channel Application Identifier "95").
Device ID	6	Used within the retail barcode construct to help maintain uniqueness and help with traceability to an exact printing source.

Data Field	Field Length	Description
Mailer Identifier	6 or 9	Most mailers will be assigned a 9- digit Mailer Identifier, which is used in conjunction with AI "92". On an individual basis, some mailers or consolidators will be assigned a 6-digit Mailer Identifier, and would then use AI "93".
Julian Date	4	Used within the retail barcode construct to aid in establishing uniqueness.
Serial Number	5, 7, 8, 10, 11 or 14	Every barcode shall contain a serial number. Retail barcodes shall use a 5-digit serial number. Online mailers / systems shall have the option of using a 5 or 8- digit serial number, based on mail volume and uniqueness requirements. Commercial mailers, depending upon length of their Mailer Identifier, may use a 7, 10, 11, or 14-digit serial number.
Mod 10 Check Digit	1	Final digit in the barcode data string

Once a bar code has been placed on a section, you can provide data to be mapped to the bar code. If the bar code is to contain both routing information and tracking information, you must separate the digits that make up the routing information, and the digits that makeup the tracking information, with an asterisk (*).

Example: 420123456789*921239123456781234567

Documaker will automatically generate the MOD 10 check digit if you do not supply it along with the other data. In the above example, the routing information consists of 12 digits: 420123456789. These digits are followed by an asterisk, which is a place-holder for the FNC1 code. The asterisk is followed by the tracking information, which consists of 21 digits:

921239123456781234567

Since an odd number of digits are provided for the tracking information, Documaker knows that the MOD 10 check digit has not been provided, so Documaker will generate the check digit at run-time as the digits are encoded into the barcode symbol.

The IMpb can be printed within a container that encompasses the barcode itself. These container items include a top horizontal line, a label that reads USPS TRACKING #, the barcode symbol, a human readable representation of the barcode data and a bottom horizontal line.



The Intelligent Mail Package Barcode functionality within Documaker generates the barcode symbol. The additional container items can be applied in Documaker Studio using lines, text labels, and variable fields. Note that if Documaker calculates the MOD 10 check digit the check digit value will not be available for inclusion in the field displaying the human readable portion of the barcode.

Note Documaker does not enforce specific height requirements for the barcode, the humanreadable representation of the barcode, USPS Banner, or other components of the barcode. You must ensure that you create the field or static barcode, the humanreadable representation, USPS banner, and other portions with the correct heights to fit within the document and within the finishing equipment and envelopes used for packaging.

The Intelligent Mail Package Barcode Specifications (which includes details on the constructs, height minimums, MOD 10 calculations, etc.) can be found under the Important Links on https://ribbs.usps.gov/index.cfm?page=intellmailpackage. Please review that information before attempting to integrate this functionality into your overall system so that you ensure compliance with the required regulations.

Japan Post Bar Code

The Japan Post bar code lets you create documents that are to be mailed in Japan. The Japan Post bar code is a height-modulated bar code, consisting of bars of four sizes: Full, Ascender, Descender, and Tracking.

Here are some examples of the Japan Post bar code:

You can encode up to 20 characters of information in this bar code. These characters can consist of the following:

Type of character	Represented with a series of
Digits (0 – 9)	Three bars
Uppercase characters (A – Z)	Six bars
Hyphens (-)	Three bars If the input string contains a hyphen in the Post Code (first seven characters) or between the Post Code and the address, the system removes that hyphen and it is not encoded into the bar code. A hyphen in the address area is encoded into the bar code string.

The first seven characters contain the Post Code. The next 13 characters contain additional address information. If you have fewer than 20 characters, the system pads the bar code string with a control character that consists of 3 bars until the length reaches 20.

Because digits are represented with three bars and alphabetic characters are represented with six bars, the final number of bars in the bar code varies and depends on the number of digits and the number of alphabetic characters in the information string.

The final bar code string consists of a start code, the Post Code, the address, a check digit, and a stop code, as shown here:

Type of information	Start Code	Post Code	Address Number	Check Digit	Stop Code
Number of characters	1	7	13	1	1

Here is an example:

Item	Example	Comments
Postal code	2730102	no hyphen (-)
Address	3-20-5B604	
Bar code format	Postal code + Address	No space between the two items
Bar code text	27301023-20-5B604	
Data encoded in the bar code text	27301023-20-5B604	

Note For more information about the Japan Post bar code, visit this web site:

http://www.post.japanpost.jp/zipcode/zipmanual/index.html

This site is in Japanese. You can use an on-line translation web site, such as Google Translate, to translate the information on the site. Keep in mind the quality of the translation can vary from site to site.

Adding a Japan Post bar code

In Studio, you can place a Japan Post bar code in a field by following these steps:

- 1. Insert a field in a section. For the field type, choose Bar Code.
- 2. Enter the appropriate information to define the bar code, choosing Japan Post in the Format field.
- **Note** Studio does not translate a standard address to a 20-character or less address for the bar code. You must handle the translation. Note too that the Japan Post bar code is drawn using graphical commands and is not created using a font.

PDF417 Bar Codes

A PDF417 bar code can contain any type of information. For instance, the New York State Insurance Department's (NYSID) regulation requires PDF417 bar codes on driver ID cards. To add a PDF417 bar code, follow these steps:

Note The REL121.FXR font cross-reference file references the PDF417 fonts. You can select this FXR file using the Manage, System, Settings, Resource Path Setup option.

If you are a system supervisor, you can also import the PDF417 bar code fonts into an FXR. For example, choose the Manage, System, Fonts option. Then choose the Fonts, Import, option and use the Import Fonts wizard to import the PDF417 fonts. Use this table to select the fonts for your printer type:

	240 DPI 9x12	300 DPI 9x12	240 DPI 2x16	300 DPI 2x16
AFP	X0P09X12.FNT	X0P09X12.FNT	X0P12X16.FNT	X0P12X16.FNT
Metacode				
0 degrees	P09X12.FNT	P12X16.FNT	P12X16.FNT	P15X20.FNT
90 degrees	J09X12.FNT	J12X16.FNT	J12X16.FNT	J15X20.FNT
180 degrees	109X12.FNT	112X16.FNT	I12X16.FNT	115X20.FNT
270 degrees	L09X12.FNT	L12X16.FNT	L12X16.FNT	L15X20.FNT
PCL	P09X12.PCL	P12X16.PCL	P12X16.PCL	P15X20.PCL
PostScript	PDF417PFB	PDF417PFB	PDF417PFB	PDF417PFB
PDF	PDF417TTF	PDF417TTF	PDF417TTF	PDF417TTF

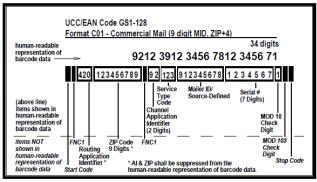


Figure 3: C01 - Visible and Non-Visible (Encoded/ Overhead) Elements

- 1. Insert a field in a section. For the field type, choose Bar Code.
- 2. Choose PDF417 in the Format field.
- 3. In the Font ID field, select one of these font IDs: 911, 912, 1215, or 1216.
- 4. Enter the rest of the Bar Code properties as necessary.
- **Note** The minimum size for a PDF417 bar code is 1.250" (width) x 0.583" (height). If you insert a PDF417 bar code or a PDF417 bar code field and attempt to specify either a width or a height that is less than the minimum size, Studio resizes the bar code to the minimum size.

Using Code 39

Code 39, also known as the "3 of 9 code" is the first alphanumeric symbol to be developed. It is widely used, and is considered the de facto standard in non-retail symbol. It is discrete, self-checking, and of variable length.

Every Code 39 character has five bars and four spaces, making a total of nine elements. Of the nine elements, three are wide and six are narrow, making Code 39 a two-width code.

Code 39 is self-checking and is normally not used with a self-check character. An optional mod-43 check character is defined and often used in the healthcare industry.

Variants of the standard Code 39 bar codes are often defined by series of four values, which represent a number of dot-rows:

narrow bar: narrow space: wide bar: wide space

The system includes the following variants of the standard code 39 bar code:

1:1:3:3 1:1:2:2 1:2:4:5

Note Choose the one that best meets your requirements. In the absence of a specification, try a sample of all three and choose the one that comes the closest to your needs.

PLANET Code Bar Codes

You can add PLANET Code® bar codes to your forms. These bar codes, along with the Confirm® service offered by the United States Postal Service (USPS), let you track your mail electronically.

You uniquely identify and track your mail by placing the PLANET Code bar code on the front of the mail piece. As the mail piece moves through the postal system, USPS sorting equipment notes the processing facility, operation number, and processing date and time. This information is returned to you in the form of a response file.

For more information, see the PLANET Codes web site:

www.planetcodes.com

The PLANET Code is essentially an inverse image of the POSTNET bar code and is defined as follows:

Like POSTNET Codes, PLANET Codes have 14 digits and consist of tall and short bars. PLANET symbology is the inverse of POSTNET because each POSTNET digit has a combination of two tall and three short bars and each PLANET digit had three tall and two short bars.

All PLANET bar codes include a five-bar checksum digit or correction character. This digit is always the number which, when added to the sum of the other digits in the bar code, results in a total that is a multiple of 10.

Here is an example of the PLANET Code bar code:

FRAME BAR	_														СН	IECK DIGIT	_
[I	ıllı	пШ	lllu	հր	llu	նհե	հհ	հեր	 	հհ	hull	llul	lu II	hill		
		4	0	1	2	3	4	5	2	3	5	6	3	6	6		

You can download a True Type font from the USPS at:

www.planetcodes.com/confirm/common/planetFonts.ttf

In addition:

- The first two digits comprise an ID Confirm Service number, such as 4 which indicates First-Class Mail Letters.
- The next five digits comprise a Subscriber ID assigned by a post office.
- The next six digits comprise the Mailing ID which is assigned by the system and identifies each mail piece in a batch cycle.
- The last digit is a Check Digit which is calculated based on the sum of the previous 13 digits. For example, if the sum of the previous 13 digits is 44, the Check Digit would be 6 (44 + 6 = 50 which is divisible by 10).

QR Bar Code

Quick Response Code (QR code) is the trademark for a type of matrix barcode or two-dimensional bar code.

A Quick Response Code (QR) barcode consists of black modules (square dots) arranged in a square grid on a white background, which can be read by an imaging device (such as a camera, scanner, etc.) and processed using Reed–Solomon error correction until the image can be appropriately interpreted. The required data is then extracted from patterns that are present in both horizontal and vertical components of the image.

Note Smart phones, handheld scanner or other devices which can be used to scan the QR code convert that code to some useful form such as text. Different devices support different output. Check the vendor's documentation for specifics.

A QR code can be used for product tracking, item identification, time tracking, document management, and general marketing. Here is an example of QR code.



Oracle Documaker QR codes supports a maximum value of 1024 bytes.

Adding a QR Bar Code

In Studio, there are two ways to insert a QR bar code in a Section.

1. Insert a Bar Code Object

C) 🗶 🜒 🌗 🚯 🥘	
÷	General	
	Name	
	Format	▼
	Code	EAN-13 Digit
	Scale	EAN-8 Digit Intelligent Mail Barcode (USPS 4CB)
÷	Coordinates	Intelligent Mail Package Barcode (IMpb)
	Horizontal	Interleaved 2 of 5 1:1:3:3 Interleaved 2 of 5 Mod 10
	Vertical	Japan Post
	Width	MSI Mod 10 Check Digits MSI Mod 10/10 Check Digits
	Height	MSI Mod 11/10 Check Digits
•	Attributes	MSI no Check Digit PDF417
	Pre-printed	PLANET
	Rotation	QR Code UPC 2-Digit Add-On
	Color	UPC 5-Digit Add-On
•	Accessibility	UPC-A 1:2:3:4 11 Digit UPC-EI 6 Digit
	Skip Reading	UPC-EO 6 Digit
	Alternate Text	UPC-EO Zero Suppress 10 Digit

2. Insert a field. Set the field type to Bar Code. Select a format of QR code.

G) 🗶 🜒 🕨 🖫 🖀 🔔 🦃 🥘					
>	General					
	Name	FIELD				
	Style					
	Prompt					
	Font ID	24010 Albany AMT 10 PT (PCL AFP XEP				
	Туре	Bar Code				
	Length	27				
	Format	QR Code				
	Scale	EAN-13 Digit				
	Task Comments	EAN-8 Digit Intelligent Mail Barcode (USPS 4CB)				
>	Coordinates	Intelligent Mail Package Barcode (IM				
>	Attributes	Interleaved 2 of 5 1:1:3:3 Interleaved 2 of 5 Mod 10				
>	Documerge	Japan Post				
>	Rule	MSI Mod 10 Check Digits MSI Mod 10/10 Check Digits				
>	Entry	MSI Mod 11/10 Check Digits				
>	Accessibility	MSI no Check Digit PDF417				
>	Mobile	PLANET				
	Link	QR Code				

Note The word "QR Code" is registered trademark of DENSO WAVE INCORPORATED in Japan and other countries. This registered trademark applies only for the word "QR Code", and not for the pattern (image).

USPS Intelligent Mail Bar Code (4-State Customer Bar Code)

You can generate the Intelligent Mail® bar code, formerly referred to as the 4-State Customer bar code on your forms. The Intelligent Mail® bar code is a height-modulated bar code using four distinct vertical bar types.

Note You must follow the guidelines set by US Postal Service to implement an Intelligent Mail® bar code. You can download these guidelines from the following web site: http://ribbs.usps.gov/

Since Documaker handles the encoding and printing of the bar code and does not use the font provided by the US Postal Service, you do not have to download that font. You do, however, need to get a Mailer ID from the US Postal Service.

It encodes a 20, 25, 29, or 31-digit string into 65 vertical bars, each representing one of four possible states: full bar, ascender, tracker, and descender. Intelligent Mail bar code expands the ability to track individual mail pieces and provide its customers with greater visibility in the mail stream.

Туре	Field	Digits
Tracking Code	Bar Code ID	2 (The 2nd digit must 0-4)
	Service Type ID	3
	Customer ID	6
	Sequence Number	9
Routing Code	Delivery Point ZIP Code	0, 5, 9, or 11
Total		31 maximum

Here is an example of the 4CB bar code:

To generate a USPS Intelligent Mail bar code, insert a bar code and select the USPS 4CB option in the Format field.

Printing Bar Codes in PDF Files

If you are using the PDF Print Driver to create PDF files which contain bar codes, be sure to set the PrintScaling option to None, as shown here:

```
< PDFViewerOptions >
PrintScaling = None
```

Otherwise, Acrobat may stretch the output to fit, which will distort the bar code.

Note

For more information about the PDF Print Driver, see the Output Management Guide.

ADDING BOOKMARKS

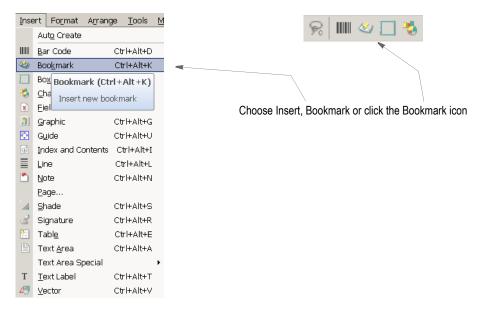
Studio lets you add bookmarks to the sections that make up the form set. These bookmarks define the text you want to print in the table of contents, table of figures, or index. When adding a bookmark, you can also specify a level number that determines the formatting to use.

Note For information about compiling the bookmarks you create into tables of contents, tables of figures, and indexes, see *Creating Tables of Contents, Tables of Figures, and Indexes* on page 381.

If the bookmark is for an index, specify the main entry and subentry. Index bookmarks are sorted by main entry, subentry, page number, and coordinate. Tables of contents and tables of figures are sorted by page number and coordinate.

Follow these instructions to add a bookmark to a section:

- 1. Open the section to which you want to add a bookmark.
- 2. Choose the Insert, Bookmark option.



The Bookmark Options window appears

🕂 Untitled1* 👌 Untitled2*	4 0 3
Properties	Ф Гр 1 2400 1
Bookmark Options	— Page 1 –
🔁 🗶 🜒 🕨 🥹	
 General 	
Name	
Style	2.
Note	
Level 1	
Table of content	
Table of figures	
Index 🗹	4.
Main entry	
Subentry	
✓ Coordinates	
Horizontal 1075 FAPs	
Vertical 725 FAPs	2
Properties Objects	

3. Use these fields to define the bookmark:

Property	Description
General	
Name	(Optional) Enter the name for the bookmark. Assign a unique name to facilitate reference to the bookmark for editing or other purposes. Although a bookmark name is not required, it is recommended that a name be provided. In the absence of a name, the horizontal and vertical coordinates of the bookmark are used to locate\ reference the bookmark. These coordinates may not have significance or meaning to users.
Style	This field only appears if you specified a style file in the BDF file. Select the style you want to use.
Note	Define the text you want to print within your index, or table of contents.
Level	Define a level number which determines the formatting to use (like ToC1, ToC2, and so on).
Table of Contents	Check this property if this bookmark is used by the table of contents.
Table of Figures	Check this property if this bookmark is used by the table of figures.
Index	Check this property if this bookmark is used by the index.
Main Entry	(Index only) Enter the text to appear as the main entry of the index.
Sub Entry	(Index only) Enter the text to appear as the sub entry of the index.
Coordinates	
Horizontal	Set the horizontal (left) starting position.
Vertical	Set the vertical (top) starting position.

Note

If you later need to edit the bookmark, just double-click the bookmark icon in your section and then modify its properties as needed.

Converting RTF, DOC, and DOCX files

You can also import Rich Text Files (RTF), DOC, or DOCX files from Word to be used in Studio. When doing so, any level commands in those files are added to the properties of the converted paragraphs. You can also manually set the level property to a value of 0-9.

A paragraph level value of 1-9 requests that the text of the paragraph appears in the table of contents. This is done without you creating a bookmark. A level of zero (0) indicates that no automatic table of contents entry is requested. The default is zero (0). For more information, see *Creating Paragraphs* on page 472.

CREATING BOXES

Boxes can segment or emphasize a particular portion of the section. You control the weight of the box lines, patterns, colors as well as the dimensions of the box. To create a box, choose Insert, Box.

 	General Name Coordinates Horizontal Vertical Width Height	1700 FAPs 1100 FAPs 8550 FAPs	
) 	Coordinates Horizontal Vertical Width	1100 FAPs	
H N N	Horizontal Vertical Width	1100 FAPs	
١	Width		
		8550 FAPs	
ł	Height		
		4225 FAPs	
	Line weights		
H	Horizontal	15 FAPs	
N	Vertical	15 FAPs	
• [Draw edges		
1	Left	3	
1	Тор	I	
F	Right		
E	Bottom		
1	Attributes		
F	Pre-printed		
F	Pattem	Solid	
C	Color	default	
1	Accessibility		
9	Skip Reading		
1	Alternate Text		
	Mobile		
0	Dmit		

Property	Description
General	
Name	(Optional) Enter the name for the box. Assign a unique name to facilitate reference to the box for editing or other purposes. Although a box name is not required, it is recommended that a name be provided. In the absence of a name, the horizontal and vertical coordinates of the box are used to locate\ reference the box. These coordinates may not have significance or meaning to users. Note: If you enter a name such as Box, the system will automatically increment the box objects name to Box #002, Box #003 when you copy and paste or duplicate the box object.

Property	Description
Coordinates	
Horizontal	Set the horizontal (left) starting position.
Vertical	Set the vertical (top) starting position.
Width	Width of the box
Height	Height of the box
Line weights	
Horizontal	Horizontal line width.
Vertical	Vertical line width.
Draw edges	
Left	Check on if the left side of the box should be drawn
Тор	Check on if the top of the box should be drawn
Right	Check on if the right side of the box should be drawn
Bottom	Check on if the bottom of the box should be drawn
Attributes	
Pre-printed	Check on to tell the system NOT to print this object when you print the Section.
Pattern	Select the pattern of the lines
Color	Select the color or use the default. If you want the object to print in this color, check the Print in color field. Otherwise, the system will print the box in black.

Using a pre-printed flag on an object can be useful during forms creation or when test printing your forms. You may be using letterhead or special paper that has the company name or logo already embossed on the paper. Inserting a text label or logo on your form in the same location as the company name or logo helps to ensure that space isn't inadvertently written over by other objects. These objects would 'reserve' that space on the form.

You may wish to include pre-printed objects when test printing the form to compare against your special paper to make sure that there is enough space on the special paper for the non pre-printed objects. By default, the Print dialog will not display a Pre-printed option. Any objects flagged with Pre-printed will not print on the form.

Property	Description
Accessibility	
Skip Reading	If checked on, the box is excluded from being read by assistive technology. This setting is not used for boxes.
Alternate Text	Enter the alternate text to use.

Property	Description
Mobile	
Omit	Select this check box if you do not want the box to be included in the Mobile Output.
Context	Pick from a list of available tags or add a new one for the box object.

Note Mobile options require Documaker Mobile. If you have not purchased and installed Documaker Mobile, the required Mobile options will be disabled. To purchase Documaker Mobile, visit My Oracle Support website or contact your Oracle Sales representative.

ADDING CHARTS

Studio lets you include graphical charts in your sections. You can choose from a variety of 2-dimensional and 3-dimensional charts including pie charts, bar charts, area charts, and percentage charts. You can customize the look of your chart by selecting various properties to change positioning, dimensions, line characteristics, chart background, chart colors, and so on.

Studio provides two ways for you to show data on your charts: statically or dynamically. A chart can show static data you enter when you create the chart. This data does not change. A chart can also show dynamic data added via Documaker Server at run time or during data entry.

Note There are several rules you can use with dynamic data. These rules let you populate the chart with data from an extract file or from data in fields on the section. You can find more information on these rules in the Rules Reference Manual:

- CreateChartSeries
- FieldVarsToChartSeries
- PurgeChartSeries
- SetCustChartAxisLabels

After the chart has been created and the look of the chart is established, you can fill the chart with data. There are several ways to populate a chart with data. You can...

- Enter static data onto the chart by entering permanent data values when you create the chart. These data values are stored along with the chart as part of the image file.
- Populate the fields with data at runtime or when using the Entry module to update the dynamic data.

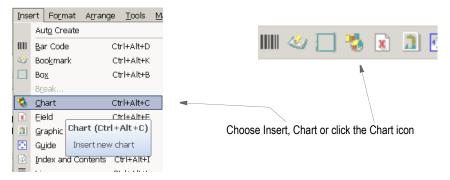
These are some questions to consider when creating a chart:

- 1. Determine which chart type best meets your needs.
- 2. Determine which type of data will be used to populate the chart static, dynamic or a mix of static and dynamic data.
- 3. Determine which, if any, Chart rules are needed for to populate the chart with dynamic data.
- 4. Consider what type of data will fill the chart.
- 5. Consider what type of chart best shows the data.

CREATING A CHART

Once you have determined the chart and data type best suites your needs, you are ready to create a chart.

- 1. Open the section that will contain the chart.
- 2. Choose Insert, Chart or click the chart icon.



3. Place the mouse pointer where you want the top left corner of the chart to be and press and hold the left mouse button. Drag the mouse to draw the approximate area where you want Studio to insert the chart. Release the mouse button. The Chart wizard's Type window appears.

	Chart Wizard - Step 1 of 3 - Type	×
Here a 3D Pie chart is selected.	Area Bar Column Pie Pie Bie Bie Bie Bie Bie Bie Bie Bie Bie B	

Note

- You can change all of these settings after the Chart wizard creates your chart.
- 4. Choose the type of chart you want to create. Each type is comprised of subtypes, examples of which appear on the right side of the screen. Select the type and subtype you want and click Next.

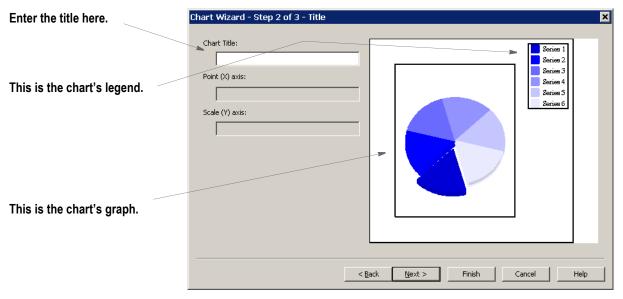
Туре	Subtypes
Area	2D Area, 2D Percent Area
	3D Area, 3D Percent Area, 3D Split Area

Туре	Subtypes
Bar	2D Horizontal Bar, 2D On-top Horizontal Bar, 2D Percent Horizontal Bar 3D Horizontal Bar, 3D On-top Horizontal Bar, 3D Percent Horizontal Bar, 3D Split Horizontal Bar
Column	2D Vertical Bar, 2D On-top Vertical Bar, 2D Percent Vertical Bar 3D Vertical Bar, 3D On-top Vertical Bar, 3D Percent Vertical Bar, 3D Split Vertical Bar
Line	2D Line and 3D Ribbon
Pie	2D Pie and 3D Pie

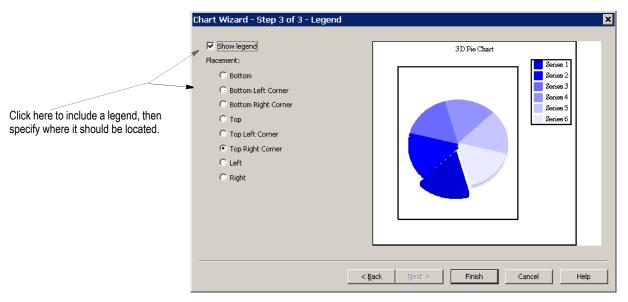
Note

The default is a 3D Pie chart.

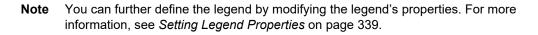
The Chart wizard's Title window appears.

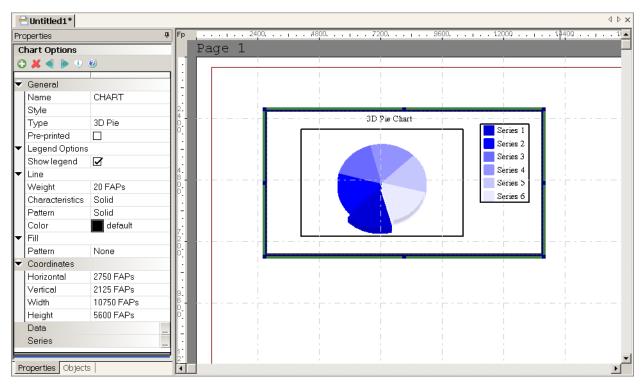


- 5. Enter the Chart title, Chart X-Axis Title and Chart Y-Axis title as desired.
 - Chart X-Axis Title enter the desired Chart X-Axis title
 - Chart Y-Axis Title enter the desired Chart Y-Axis title
- **Note** The Chart X-Axis and Chart Y-Axis title fields are disabled for chart types 2D Pie and 3D Pie.
 - 6. Click Next. The Legend dialog appears.



7. Specify if you want to show the legend and, if so, where you want it to appear. Then click Finish. Studio displays your chart.





8. Once the Chart wizard creates your chart, use the properties on the chart's Properties tab to customize its position, dimensions, border, and the background of the entire chart area.

Note The Style field only appears if you specified a style file in the BDF file.

Property	Description
General	
Name	(Required) Enter the name of the chart. The default name is CHART. As you add additional charts to the section, #nnn is appended to the default field name, for example CHART #002, CHART #003, etc.
Style	This field only appears if you specified a style file in the BDF file. Select the style you want to use.
Туре	Select the type from the list.
Preprinted	Check this property to tell the system not to print this chart when you print the section.
Legend	
Show Legend	Check this property to display the legend. For more information, see <i>Setting Legend Properties</i> on page 339.
Line	
Weight	Specify the thickness in FAP units (2400 per inch) of the line that comprises the chart's outside border. Enter zero (0) if you do not want an outside border.
Characteristics	Specifies whether the chart's outside border is solid or dashed and, if dashed, how long the dashes and the spaces between the dashes should be.
Pattern	Choose the pattern of the chart's outside border.
Color	Specifies the color of the chart's outside border.
Fill	
Pattern	Specifies the background pattern for the fill area — the area inside the chart's outside border. Choose None if you do not want a pattern fill.
Color	Specifies the color of the fill area.
Coordinates	
Horizontal	Specifies the horizontal position of the upper left hand corner of the chart. You can change the chart's position by entering coordinates or by using the Left and Right arrow keys.
Vertical	Specifies the vertical position of the upper left hand corner of the chart. You can change the chart's position by entering coordinates or by using the Up and Down arrow keys.
Width	Specifies the width of the chart. You can change the chart's width by entering a value or by dragging the chart handles.
Height	Specifies the height of the chart. You can change the chart's height by entering a value or by dragging the chart handles.
Data	Use this property to display the window where you modify series and data information. You can enter static data associated with a series for printing a static chart or associate the data with fields in the series. See <i>Assigning Chart Fields</i> on page 329 for more information.

Property	Description
Series	Use this property to manipulate a data element called a <i>series</i> . A series is a set of data, shown on the chart as a bar, a line, or a piece of the pie. You can use this property to add another piece of pie, a new bar, or a new line or to format the data in a series and its legend area.
	See Point Axis on page 330 for more information.
Accessibility	Property attributes associated:
Skip Reading	If checked on, the object is excluded from being read by assistive technology.
Alternate Text	Enter the alternate text to use.

ENTERING CHART DATA

You can enter static data associated with a series for printing a static chart or you can associate the data with fields in the series. Follow these steps to define how Studio will get the data that appears on the chart.

1. From the chart's Properties window, click the ellipsis icon in the Data field.

Pro	operties		џ		
С	hart Options			2	
6) 🗶 🜒 🌔 🌮	0			
÷	General		-		
Г	Name	CHART			
	Style	Property and Casu	ıa		
	Туре	3D Vertical Bar			Click here to define the data
	Pre-printed				for your chart.
Þ	Legend Options	3		/	
Þ	Line			/	
Þ	Fill			/	
•	Coordinates				
	Horizontal	2225 FAPs		/	
	Vertical	2100 FAPs		/	
	Width	9875 FAPs		/	
	Height	7500 FAPs			
	Data			-	
	Series				

This window appears.

Use these buttons to add or delete the data in a series.	Chart Properties Type Series Data Data Oata	Preview
Double-click here to enter static data for this series.	Series 1 Series 2 Series 3 Series 4 Series 5 Series 6 1 10.000000 10.000000 10.000000 10.000000 10.000000 2 14.000000 14.000000 14.000000 14.000000 14.000000 3 12.000000 12.000000 12.000000 12.000000 12.000000	40.00 30.00 20.00 1 2 3 4 5
Click here to choose a field as the source for the data in this series.	4 4.000000 4.000000 4.000000 4.000000 4.000000 5 50.000000 50.000000 50.000000 50.000000 50.000000	OK Cancel

- **Note** The Add and Delete icons on the Data tab let you add or delete the *data* in a series. To add or delete a series, you have to go to the Series tab.
 - 2. When you insert a data point to a series, you can either enter static data or use the ellipsis button to insert a field. Field data is added at processing time. See *Assigning Chart Fields* on page 329 for more information.

Click Ok when you are finished defining the data for the chart.

Assigning Chart Fields

Follow these steps to use a field as the source of data for a chart series.

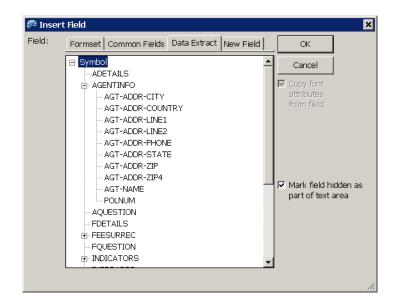
1. Click the ellipsis button in the Data field.

Data Click here to define the data.

2. On the Data tab, click in the series for which you want to define a field, then click the ellipsis button.



The Insert Field window appears. This example shows the fields defined in the Data Extract dictionary.



- 3. Choose the field you want to serve as the source of the data for the series. You can choose from fields defined for the current form set (section), fields in the Common Fields dictionary, fields in the Data Extract dictionary, or define a new field.
- **Note** There are section-level rules that must be used when you use variable data to propagate a chart. Refer to the Rules Reference Manual for a description of the following rules: FieldVarToChartSeries, CreateChartSeries, PurgeChartSeries, DeleteDefaultSeriesData.

POINT AXIS

Reverse point axis	
Data point grid	
Axis grid marks	
Point Axis Line	
Weight	20 FAPs
Characteristics	Solid
Dash length	0 FAPs
Space length	0 FAPs
Pattem	Solid
Color	default
Point Axis Labels	
Format	1 (0 decimal)
Font ID	24010 Albany AMT 10 PT (PCL AFP XER Oth)
Color	default
Start at	1
Increment	1

Point Axis

Parameter	Description
Reverse Point Axis	Reverses the order of the point axis values.
Data point grid	Click this option to have the system display grids that can be used for alignment purposes.
Axis grid marks	Click this option to have the system display grids you can use for alignment purposes.

Point Axis line

Defines the appearance of the point axis line.

Parameter	Description
Weight	Defines the thickness of the point axis line.
Characteristics	Defines the line type of the point axis grid line. Select from Solid (point axis line is a solid line) or Dashed. (point axis line is a dashed line).
Dash length	Defines the length of Dash line when Characteristics value is set to Dashed.
Space length	Defines the length of the space when Characteristics value is set to Dashed.
Pattern	Choose the desired line pattern for the pont axis line. Selections include solid, diagonal hatched, light, etc.
Color	Choose the desired color for the point axis line.

Point Axis Labels

Parameter	Description
Format	Use the Format field to select the way you want the system to format the text for the labels. If you want to define your own format, choose Custom and click the Custom button. If you do not want point axis labels, select None. Note: When the format is set to Custom or None, Start At and Increment settings are not shown.
Font ID	Select the desired font id for the point axis labels.
Color	Select the desired color for the point axis labels.
Start At	Enter a starting value in the Start Value field for the Point Axis label. The Start At value is based on the selected Format.
Increment	Enter an increment value for the Point Axis Labels.

You can define the desired custom labels through the Custom dialog. The Custom dialog can be accessed by clicking the ellipses on the Custom Point Labels.

G	iraph options	
6) 💢 🜒 🕨 🕄 🥘 👘	
F	Data point grid	
	Axis grid marks	
÷	Point Axis Line	
	Weight	20 FAPs
	Characteristics	Solid
	Dash length	0 FAPs
	Space length	0 FAPs
	Pattern	Solid
	Color	default
×.	Point Axis Labels	
	Format	Custom
	Font ID	11010 Times-Roman 10 PT (PCL AFP KE
	Color	📕 default 🕴 💙
	Custom Point Labels	

Custom Point Axis Labels dialog is displayed as follows:

Type Series Dat	a Labels		Preview	
hg February hg March hg April hg May hg June	Custom Label			
	Field	reading		
				nge ma Ad

SCALE AXIS

Scale Axis	
Axis grid marks	
Scale on right	
Show zero line	
Scale Axis Line	
Weight	20 FAPs
Characteristics	Solid
Dash length	0 FAPs
Space length	0 FAPs
Pattern	Solid
Color	i default
Scale Axis Labels	
Format	1.00 (2 decimal)
Font ID	24010 Albany AMT 10 PT (PCL AFP XER Oth)
Color	i default
Marks	
Suppress major ticks	
Min	0
Opt Min Field	
Max	50
Opt Max Field	
Auto label	
Increment	10
Opt Increment Field	
Tick marks	I
Tick value	2
Opt Tick value Field	

Scale Axis

Parameter	Description
Axis grid marks	Click this option to have the system display grids you can use for alignment purposes.
Scale on right	This option displays the increment and tick marks on the right side of the chart. You can position the scale axis on the right side if you make your chart a three- dimensional chart and set the rotation to 0 (zero) for the X and +1 for the Y. This looks similar to a two- dimensional chart and causes the axis to move to the right side.
Show zero line	Use the Show Zero Line option on the Scale Axis tab of the Chart Properties window to control the appearance of the zero (0) line on a chart. This line becomes effective when you chart contains negative data. This option is not valid for pie charts. The default is to not show the zero line.

Scale Axis line

Defines the appearance of the scale axis line.

Parameter	Description
Weight	Defines the thickness of the scale axis line.
Characteristics	Defines the line type of the scale axis grid line. Select from Solid (scale axis line is a solid line) or Dashed. (scale axis line is a dashed line).
Dash length	Defines the length of Dash line when Characteristics value is set to Dashed.
Space length	Defines the length of the space when Characteristics value is set to Dashed.
Pattern	Choose the desired line pattern for the scale axis line. Selections include solid, diagonal hatched, light, etc.
Color	Choose the desired color for the point axis line.

Scale Axis Labels

Parameter	Description
Format	Use the Format field to select the way you want the system to format the text for the labels.
Font ID	Choose the desired font ID for the point axis labels.
Color	Choose the desired color for the point axis labels.

Marks

Parameter	Description
Suppress major ticks	Select this option to suppress the tick marks which appear between the increment labels and the scale axis.
Min	Specify the minimum tick mark value
Opt Min Field	Specify the field whose value will be used for the minimum tick value.
Max	Specify the maximum tick value.
Opt Max Field	Specify the field whose value will be used for the maximum tick value.
Auto Label	Lets you choose the number of labels to display beside a chart. You can use this feature for all charts, except pie and percent charts. You must enter a value other than zero in the Increments field. The range is divided up to determine a suitable increment. It is unlikely that the range will always divide evenly. This means the increment may vary between lines.
Increment	Used in conjunction with Auto label setting. Specifies the incremental value for labels.
Opt increment field	Specify the field whose value will be used for the incremental value.
Tick mark	Select this option to suppress minimum tick marks.

Parameter	Description
Tick value	Specifies the interval for minimum tick marks.
Opt tick value field	Specify the field whose value will be used for tick value.

ADDING A SERIES

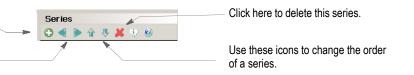
A series is a set of data, shown on the chart as a bar, a line, or a piece of the pie. You can use this option to add another piece of pie, a new bar, or a new line, or to format the data in a series and its legend area.

To add a series, follow these steps.

1. Click the ellipsis button in the Series field.

Series Click here to add a series.

2. On the Series tab, click the Add icon to add a series to your chart.



Studio appends the new series at the end of the list and lets you define its properties. In this example, *Series* 7 is the new series.

Type Series bac Series bac Series bac Series	🌮 Chart Properties	
Here is the new series.	Series Serie	

3. Use these properties to define the series.

Use these icons to move to the next or previous series

Click here to insert a series.

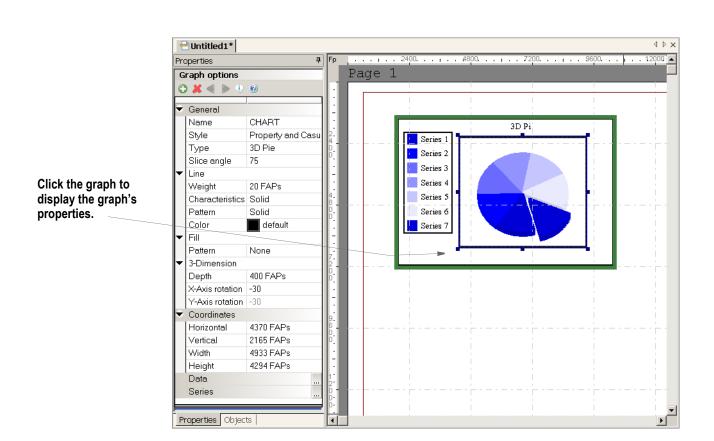
Property	Description
Series X	
Name	Enter the name of the series.
Title	Enter the title you would like to appear in the legend area for this series.
Field	Use the ellipsis button to select a field, if the data for this series comes from a field. See <i>Assigning Chart Fields</i> on page 329 for more information.
Font ID	Specifies the ID of the font you want to use for this series' legend text.
Color	Choose the color for this series' legend text.
Explode%	(Pie charts only) Used to define the degree of separation from other pie slices. Enter zero (0) if you want the slice to touch its adjoining slices. Enter a larger number, such as 20%, to pull a slice out of the pie for emphasis purposes.
Size%	(Line charts only) Used to define the size of the symbols representing a data point for the series. Enter a larger number to emphasize a specific series.
Area Line	
Weight	Specifies the weight, in FAP units (2400 per inch), of the line, bar, or pie slice that represents this series.
Characteristics	Specifies whether the line, bar, or pie slice that represents this series is solid or dashed and, if dashed, how long the dashes and the spaces between the dashes should be.
Pattern	Specifies the pattern of the line, bar, or pie slice that represents the series.
Color	Specifies the color of the line, bar, or pie slice that represents the series.
Area Fill	
Pattern	Specifies the pattern for the series in the chart area.
Color	Specifies the color for the series in the chart area.
Data	
Format	If you set this property to None, the following, related properties do not appear. Specifies the format of the numeric legend to the data point (series).
Align	Specifies where the data prints with respect to the data point (series), such as center, left, or right.
Accumulate	Check this property if you want to add the values of the data points in a series.
Font ID	Specifies the ID of the font you want to use for the numeric legend to the data point (series).
Color	Specifies the color of the numeric legend of the data point (series).
Apply to All	Applies the characteristics of all the fields in this section to all of the series.
Data Line	

Property	Description
Weight	Specifies the weight, in FAP units (2400 per inch), of the line that highlights the data.
Characteristics	Specifies whether the line is solid or dashed and, if dashed, how long the dashes and the spaces between the dashes should be.
Pattern	Specifies the pattern of the line that highlights the data.
Color	Specifies the color of the line that highlights the data.
Data Fill	
Pattern	Specifies the pattern fill of the area inside the line that surrounds the data.
Color	Specifies the color of the area inside the line that surrounds the data.

SETTING GRAPH PROPERTIES

To define the way the graphic appears, first click the graph to select it, then modify its properties as needed.

You can also access Graph options by selecting Graph from the Format menu or by selecting Graph from the right click menu while in Chart Editor mode.



Note

Double click on the chart to go into Chart Editor mode.

Use these properties to define the chart's graph:

Property	Description
General	
Name	The chart name appears here.
Style	This field only appears if you specified a style file in the BDF file. Select the style you want to use.
Туре	Select the type from the list.
Slice Angle	Use the First Slice Angle field for 2D and 3D pie charts. Enter the degree at which you want the first slice to begin in the First Slice Angle field. The default is zero (0), which means the first slice begins at the 3 o'clock position. If you enter 90, the first slice begins at the 6 o'clock position. Entering 180 starts the slice at the 9 o'clock position, and so on.
Line	
Weight	Specifies the weight, in FAP units (2400 per inch), of the line around the graph.
Characteristics	Specifies whether the line is solid or dashed and, if dashed, how long the dashes and the spaces between the dashes should be.
Pattern	Specifies the pattern of the line.
Color	Specifies the color of the line.
Fill	
Pattern	Specifies the pattern of fill area for the graph.
3-Dimension	The 3-Dimension group and settings display when the chart type is one of the 3D chart types.
Depth	The depth refers to the thickness of the 3D object to be drawn. The thickness determines the size of the profile revealed during rotation of the X- or Y-axis.
X-Axis rotation	Enter a value between 0 and -90.
Y-Axis rotation	Enter a value between 0 and -90. Note : The 3D pie chart only allows zero (0) degree to -90 degree rotation on X direction. No Y rotation is allowed. If you choose zero degrees, the result looks like a 2D pie chart. Negative 90 (-90) degrees looks like a flat line.
Coordinates	
Horizontal	Specifies the horizontal position of the upper left hand corner of the graph. You can change the graph's position by entering coordinates or by using the Left and Right arrow keys.
Vertical	Specifies the vertical position of the upper left hand corner of the graph. You can change the graph's position by entering coordinates or by using the Up and Down arrow keys.
Width	Specifies the width of the graph. You can change the graph's width by entering a value or by dragging the graph's handles.
Height	Specifies the height of the graph. You can change the graph's height by entering a value or by dragging the graph's handles.

Rotating the Axis

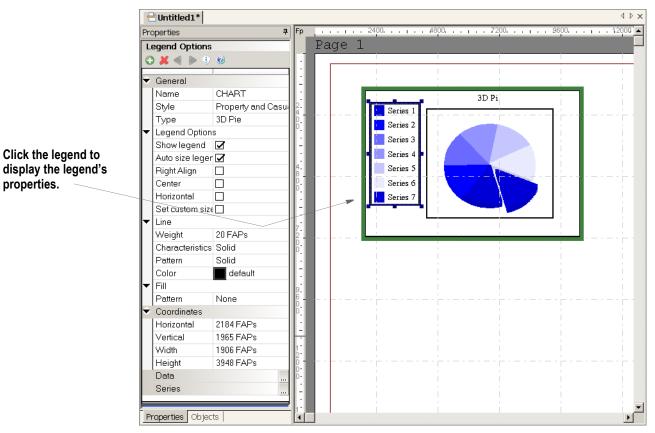
Charts typically have two axes that are used to measure and categorize data: a vertical value (y) axis, and a horizontal category (x) axis. The rotation follows the right hand rule with the X axis pointing to the right and the Y axis pointing up. When both the X and Y rotations are set to zero (0) degrees, the 3D chart looks like a 2D chart.

To understand the system of 3-dimensional rotation, imagine that you are holding a book in front of you such that you can only see the front cover. This is equivalent to 2-D or zero (0) degree axis rotation.

- If you tip the book backwards, you begin to see the bottom of the book. This is negative X axis rotation. A -90 degree X axis rotation is analogous to tipping the book backward until you can only see the bottom of the book.
- Return the book to vertical (0 degrees). If you begin tipping forwards, you begin to see the top of the book. This is positive X axis rotation. A +90 degree X-axis rotation is analogous to rotating the book so that you can only see the top of the book.
- Now return the book to vertical again. If you begin turning the book counterclockwise, you will see the bound side of the book. This is positive Y axis rotation.
- Conversely, if you turned clockwise, you would begin to see the pages side of the book. This is negative Y axis rotation.
- Continuing until you can only see the bound or pages side of the book is analogous to a plus or minus 90 degrees rotation of the Y axis.
- The split type of charts allow -90 to 90 degree rotation in both X and Y directions. The rotation is done by first applying X rotation then applying Y rotation on the rotated Y axis.
- The remaining 3D charts also allow -90 to 90 degree rotation in both X and Y directions. The two rotations are, however, independent of each other. The chart's Y axis will be drawn at the left hand side for negative Y rotation and drawn at the right hand side for positive Y rotation.
- For X rotation, positive degree is more common. You will see the bottom surface (X axis) if you have a negative X rotation (because you are looking the chart from under its bottom).

SETTING LEGEND PROPERTIES

To set properties for the chart's legend, first click the legend to select it, then modify its properties as necessary.



Use these properties to define the chart's legend:

Property	Description
General	
Name	The chart name appears here.
Style	This field only appears if you specified a style file in the BDF file. Select the style you want to use.
Туре	Select the type from the list.
Legend Options	
Show legend	Check this box to show the legend.
Auto size legend	Check this box if you want the system to automatically size the legend.
Right Align	Check this box to right align the legend.
Center	Check this box to center the legend.
Horizontal	Check this box to have legend display horizontally. Remove the check to display the legend vertically.
Set custom size	Check this box to custom size the legend. If you check this box, the Width and Height properties appear. Enter a value for these properties, which Studio will use to size the legend.

340

Property	Description
Line	
Weight	Specifies the weight, in FAP units (2400 per inch), of the line around the legend.
Characteristics	Specifies whether the line is solid or dashed and, if dashed, how long the dashes and the spaces between the dashes should be.
Pattern	Specifies the pattern of the line.
Color	Specifies the color of the line.
Fill	
Pattern	Specifies the pattern of fill in legend area.
Coordinates	
Horizontal	Specifies the horizontal position of the upper left hand corner of the legend. You can change the legend's position by entering coordinates or by using the Left and Right arrow keys.
Vertical	Specifies the vertical position of the upper left hand corner of the legend. You can change the legend's position by entering coordinates or by using the Up and Down arrow keys.
Width	Specifies the width of the legend. You can change the legend's width by entering a value or by dragging the legend's handles.
Height	Specifies the height of the legend. You can change the legend's height by entering a value or by dragging the legend's handles.

Note At runtime, the system starts drawing the first slice of a pie chart at zero (0) degrees. To specify the angle at which the system starts drawing slices, make the following entry in the INI file:

```
< Control >
```

FirstPieSliceAngle = XXX

Where XXX represents the angle degree, from zero (0) to 359.

You can use the Manage, System, Settings option to set this INI option.

Combining Charts

Studio lets you generate output that combines certain types of charts. For instance, you can link a 2D line chart to a 2D vertical bar, 2D line, or a 3D vertical bar chart.

To combine charts, create the two charts you want to link then follow these instructions:

1. Double click of the charts to display the chart's properties.

	Pri	operties		џ
	Chart Options			
	0) 🗶 🜒 🕨 🤫	0	
	÷	General	J	
	Г	Name	CHART	
	L	Style		
This chart is linked to CHART	L	Туре	2D Line	
#002.	L	Pre-printed		
\sim	Þ	Legend Options		
	Þ	Line		
	Þ	Fill		
	ŀ	Link		
	L	Link to chart	CHART #002	
	▶	Coordinates		
		Data		
		Series		

2. Select the chart you want to link to in the Link to Chart field.

Once you link a chart to another chart, the chart will then use the position and size information from the other chart. For instance, if you link chart A to chart B, chart A then uses chart B's position and size information and those fields are unavailable for chart A.

CREATING A GRAPHIC

The Logo option lets you place a graphic, logo or picture in your section.

😋 🗶 🜒 🕨 🕄 🕄	0	
General		
Name	JANEDOE	
Style	UNICOUL	
Current Graphic	JANEDOE	
Туре	LOG	
Color	Monochrome	
Resolution	300	
Task Comments		
	Edit Graphic	
Coordinates		
Horizontal	1975 FAPs	
Vertical	1450 FAPs	
Width	4480 FAPs	
Height	1000 FAPs	
Attributes		
Pre-printed		
Runtime block		
Embedded		
In line graphics		
Print in color	ĭ.	
Color	default, print	
Redact Tag		
Link		
Link Type	None	
Accessibility		
Skip Reading		
Alternate Text		
Mobile		
Omit		
Context		

Property	Description
General	
Name	The name of the graphic When a graphic other than a *.log file is inserted, the name will include the file extension. For example, if you insert the jpeg file Auto.jpg, the name will show Auto.jpg.
Current Graphic	The name of the graphic file inserted from the library or disk
Туре	Shows the type of graphic file such as LOG (logo), BMP (bitmap), JPG (jpeg), etc.
Color	The color information of the graphic such as Monochrome, 24 bit color, etc.

Property	Description
Resolution	The resolution of the graphic. This information comes from the graphic file.
Task Comments	(Optional) Can be used to provide additional information about the graphic to other individuals or for notes about the graphic. Task comments can also be added to graphics inserted in a Documaker document using the Oracle Word Ad-In product. Those comments are listed on the graphic in the converted section or paragraph created by converting the Documaker document using Studio's Conversion Manager.
Edit Graphic	Launches Graphic Manager
Coordinates	
Horizontal	The horizontal (left) starting position
Vertical	The vertical (top) starting position
Width	The width of the graphic
Height	The height of the graphic
Attributes	
Preprinted	Click this option to tell the system NOT to print the graphic when the Section is printed
Runtime block	Check the Runtime Block field to prevent the logo from being merged with the section when the form is processed by Documaker Server. By blocking the logo, you can prevent someone from cutting the logo from the form and pasting it into another document.
Embedded	When this option is checked, the graphic is embedded within this section. Remove the checkmark to invoke the Unembed Resource Wizard which will allow you to select a graphic from disk or library, save the graphic to disk or unembed the graphic only
In line graphics	Check this option if you do not wish to use pre-existing renderings of the bitmap on the printer where stock resources are stored.
Print in color	If you want the object to print in this color, click in the Print in color field.
Color	The color to use for single-color bitmaps.
Redact Tag	Select this option to assign redact tags to the object via the redact tag pick list or by keying redact tag(s). Separate multiple redact tags with a comma.
Link	
Link Type	Choose from none, external, internal or target hyperlinks.
Link Border	Select the type of border (if any) to draw around the hyperlink (PDF only). Border options include Dash, Solid, Underline or None.
HTML Reference	The web page address, for example http://www.oracle.com
Parameters	Use this field when producing HTML output to specify additional parameters to an HREF type link such as a target frame or mouse over behavior.

Property	Description
Accessibility	
Skip Reading	If checked on, the graphic is excluded from being read by assistive technology. This setting is not used for graphics.
Alternate Text	Enter the alternate text to use.

Property	Description
Mobile	
Omit	Select this check box if you do not want the graphic to be included in the Mobile Output.
Context	Pick from a list of available tags or add a new one for the graphic object.

Note Mobile options require Documaker Mobile. If you have not purchased and installed Documaker Mobile, the required Mobile options will be disabled. To purchase Documaker Mobile, visit *My Oracle Support* website or contact your Oracle Sales representative.

CREATING A GUIDE

Guide boxes help you position other objects. Guide boxes only appear on your window; they do not print. You place other objects inside the guide box to precisely position objects in relation to each other. You can quickly position and move objects based on your various alignment choices.

General	
Name	
Horizontal	4225 FAPs
Vertical	14075 FAPs
Width	7300 FAPs
Height	2525 FAPs
Attributes	
Color	default
Align	
Horizontal	none
Vertical	none
Apply	Apply
 Snap to line 	
Horizontal	
Vertical	
Apply	Apply

. ..

Property	Description
General	
Name	 (Optional) Enter a name for the guide. Assign a unique name to facilitate reference to the box for editing or other purposes. Although a guide name is not required, it is recommended that a name be provided. In the absence of a name, the horizontal and vertical coordinates of the guide are used to locate\ reference the guide. These coordinates may not have significance or meaning to users. Note: If you enter a name such as Guide, the system will automatically increment the guide objects name to Guide #002, Guide #003 when you copy and paste or duplicate the guide object.
Coordinates	
Horizontal	The horizontal (left) starting position

Horizontal	The horizontal (left) starting position
Vertical	The vertical (top) starting position
Width	Width of the guide
Height	Height of the guide

Property	Description
Attributes	
Color	Select the color or use the default.
Align	
Horizontal	 Center - centers the object horizontally within the guide. The object's vertical position remains the same. Left - moves objects to the far left border of the guide. The object will retain its original vertical position, only the horizontal position changes. None – the object remains where it is placed in the guide. Right - moves objects to the far right border of the guide. The object will retain its original vertical position, only the horizontal position changes.
Vertical	 Bottom - moves the object to the bottom of the guide. The bottom-most part of the object(s) rest on the bottom of the guide. The object retains it original horizontal position, only the vertical position changes. Center - centers the object vertically within the guide. The object's horizontal position remains the same. None - the object remains where it is placed in the guide. Top - moves the object to the top of the guide. The object retains its original horizontal position, only the vertical position changes.
Apply	Click Apply after making changes to the changes to Align (Vertical and\ or Horizontal) to apply those changes If you do not click Apply after making changes, those changes are applied only to the newly inserted objects within the guide box. Subsequent changes to Align (Vertical and\ or Horizontal) settings will need to have Apply selected again to have those revisions take effect.
Snap to line	
Horizontal	Snaps the object to the width of the guide. Does not apply to, bar codes, charts, fields, logos, notes, text areas, text labels and vertical lines.
Vertical	Snaps the object to the length of the guide box. Does not apply to bar codes, charts, horizontal lines, fields, logos, notes, text areas and text labels.
Apply	Click Apply after making changes to the changes to Snap to Line (Vertical and\ or Horizontal) to apply those changes If you do not click Apply after making changes, those changes are applied only to the newly inserted objects within the guide box. Subsequent changes to Snap to Line (Vertical and\ or Horizontal) settings will need to have Apply selected again to have those revisions take effect.

CREATING A LINE

You can use lines to divide boxes into smaller areas, to show totals or places for signatures. You control the type (solid or dotted), length, weight, pattern, and color of the line. Lines are either horizontal or vertical.

🔰 🜒 🕨 🕄 🥘	
General	
Name	
Characteristics	Solid
Coordinates	
Horizontal	1150 FAPs
Vertical	11075 FAPs
Width	14825 FAPs
Height	15 FAPs
Attributes	
Pre-printed	
Pattem	Solid
Color	i default
Accessibility	
Skip Reading	
Alternate Text	
Mobile	
Omit	
Context	
	General Name Characteristics Coordinates Horizontal Vertical Width Height Attributes Pre-printed Pattem Color Accessibility Skip Reading Alternate Text Mobile Omit

Property	Description
----------	-------------

General	
Name	(Optional) Enter a name for the line. Assign a unique name to facilitate reference to the line for editing or other purposes. Although a line name is not required, it is recommended that a name be provided.
	In the absence of a name, the horizontal and vertical coordinates of the line are used to locate\ reference the line. These coordinates may not have significance or meaning to users.
	Note: If you enter a name such as Line, the system will automatically increment the line objects name to Line #002, Line #003 when you copy and paste or duplicate the line object.
Characteristics	Solid – select for a solid line
	Dashed – select for a dashed line. When Dashed is selected, the options Dash length and Space length are displayed.
	Dash length - the size of the dashes in the dashed line
	Space length – the size of the space in the dashed line

Property	Description
Coordinates	
Horizontal	The horizontal (left) starting position
Vertical	The vertical (top) starting position
Width	Width of the line
Height	Height of the line
Attributes	
Pre-printed	Check on to tell the system NOT to print this object when you print the Section.
Pattern	Select the pattern for the line, for example Solid, Diagonal Hatch, etc.
Color	Select the color or use the default. If you want the object to print in this color, check the Print in color field. Otherwise, the system will print the line in black.

Using a pre-printed flag on an object can be useful during forms creation or when test printing your forms. You may be using letterhead or special paper that has the company name or logo already embossed on the paper. Inserting a text label or logo on your form in the same location as the company name or logo helps to ensure that space isn't inadvertently written over by other objects. These objects would 'reserve' that space on the form.

You may wish to include pre-printed objects when test printing the form to compare against your special paper to make sure that there is enough space on the special paper for the non pre-printed objects. By default, the Print dialog will not display a Pre-printed option. Any objects flagged with Pre-printed will not print on the form.

Property	Description	
Accessibility		
Skip Reading	If checked on, the lines are excluded from being read by assistive technology. This setting is not used for lines.	
Alternate Text	Enter the alternate text to use. This setting is not used for lines.	

Property	Description
Mobile	
Omit	Select this check box if you do not want the line to be included in the Mobile Output.
Context	Pick from a list of available tags or add a new one for the line object.

Note Mobile options require Documaker Mobile. If you have not purchased and installed Documaker Mobile, the required Mobile options will be disabled. To purchase Documaker Mobile, visit *My Oracle Support* website or contact your Oracle Sales representative.

CREATING A NOTE

Notes are text or comments attached to your image. The image creator or user can attach notes to objects or to the image in general. Notes generally provide additional information during the image creation.

Two types of notes are available. A memo style note has a particular recipient as a reader. A sticky pad note is usually general information similar to paper clipping or attaching a sticky note to the image.

Note Options		
🔁 🗶 🔍 🕨	0	
General		
Name		
Туре	Memo	
Date	1/12/2015	
То		
From	DOCUMAKER	
Subject		
Edit	Edit	
Coordinates Horizontal	1500 FAPs	
Vertical	10975 FAPs	
Mobile		
Omit		

Note Options	
🔁 🗶 🜒 🕨 🔍 🔘	
🗢 General	
Name	sticky note
Туре	Sticky
Edit	Edit
Note	
Coordinates	
Horizontal	1850 FAPs
Vertical	13125 FAPs
♥ Mobile	
Omit	
Context	

Property	Description	
General		
Name	 (Optional) Enter a name for the note. Assign a unique name to facilitate reference to the line for editing or other purposes. Although a note name is not required, it is recommended that a name be provided. In the absence of a name, the horizontal and vertical coordinates of the note are used to locate\ reference the line. These coordinates may not have significance or meaning to users. Note: If you enter a name such as Note, the system will automatically increment the line objects name to Note #002, Note #003 when you copy and paste or duplicate the note object. 	
Style	Choose from Sticky or Memo	
Date	Applicable to Memo note Defaults to the current system date. The date can be modified by using the calendar to select the desired date or by keying the desired date value.	
То	Applicable to Memo note Enter the recipient for the note	
From	Applicable to Memo note Defaults to user who opened the workspace. Modify as needed.	
Subject	Applicable to Memo note Enter the subject for the note	

Property	Description
Edit	Click on Edit to display Edit Data dialog. Edit Data dialog provides the ability to perform a spell check, access Spelling Options, insert a Symbol and turn on word wrap.
Note	Enter the note contents. Note contents can be entered via the Note setting or by clicking on Edit.
Coordinates	
Horizontal	The horizontal (left) starting position
Vertical	The vertical (top) starting position

Property	Description	
Mobile		
Omit	Select this check box if you do not want the note to be included in the Mobile Output.	
Context	Pick from a list of available tags or add a new one for the note object.	

Note

Mobile options require Documaker Mobile. If you have not purchased and installed Documaker Mobile, the required Mobile options will be disabled. To purchase Documaker Mobile, visit *My Oracle Support* website or contact your Oracle Sales representative.

USING NOTES AS HELP

You can use sticky notes to provide information about a field on a form.

You simply add the note to the section and position it next to the field. While in Entry or in Data Entry Check in Section or Form Manager, position your cursor over the sticky note icon. The system displays the contents of the note in a tooltip-style window. When you move the cursor away from the note, the note contents no longer display.

To enable this option, add the ShowNotes option to your FSISYS.INI file:

```
< Control >
```

ShowNotes = Yes

The default is No.

In Documaker Desktop, you can turn on or off the display of notes from a menu. To add this option to your menu, add the Show Notes line to your MEN.RES file

MENUITEM "Show &Notes" 1086 "NULL" "NULL"

1086 is the reserved menu ID for the Show Notes option.

CREATING A SHADE

Width

Width of the shade

A shaded area lets you segment or emphasize image sections. Several patterns and halftones are available. Patterns include horizontal, vertical, diagonal and hatch; halftones range from very dark to very light. You control the color and dimensions of the shaded area.

	General		
T	Name		
	Coordinates		
T	Horizontal	2325 FAPs	
	Vertical	12550 FAPs	
	Width	9375 FAPs	
	Height	6125 FAPs	
	Attributes		
ľ	Pre-printed		
	Pattern	Lightest	
	Color	default	
•	Accessibility		
	Skip Reading		
	Alternate Text		
>	Mobile		
1	Omit		

Property	Description
General	
Name	 (Optional) Enter a name for the shade. Assign a unique name to facilitate reference to the shade for editing or other purposes. Although a shade name is not required, it is recommended that a name be provided. In the absence of a name, the horizontal and vertical coordinates of the shade used to locate\ reference the shade. These coordinates may not have significance or meaning to users. Note: If you enter a name such as Shade, the system will automatically increment the shade objects name to Shade #002, Shade #003 when you copy and paste or duplicate the shade object.
Coordinates	
Horizontal	The horizontal (left) starting position
Vertical	The vertical (top) starting position

Property	Description	
Height	Height of the shade	
Attributes		
Pre-printed	Check on to tell the system NOT to print this object when you print the Section.	
Pattern	Select the pattern for the shade, for example Solid, Diagonal Hatch, etc.	
Color	Select the color or use the default. If you want the object to print in this color, check the Print in color field. Otherwise, the system will print the shade in black.	

Using a pre-printed flag on an object can be useful during forms creation or when test printing your forms. You may be using letterhead or special paper that has the company name or logo already embossed on the paper. Inserting a text label or logo on your form in the same location as the company name or logo helps to ensure that space isn't inadvertently written over by other objects. These objects would 'reserve' that space on the form.

You may wish to include pre-printed objects when test printing the form to compare against your special paper to make sure that there is enough space on the special paper for the non pre-printed objects. By default, the Print dialog will not display a Pre-printed option. Any objects flagged with Pre-printed will not print on the form.

Property	Description	
Accessibility		
Skip Reading	If checked on, the shade is excluded from being read by assistive technology. This setting is not used for shades.	
Alternate Text	Enter the alternate text to use. This setting is not used for shades.	

Property	Description
Mobile	
Omit	Select this check box if you do not want the shade to be included in the Mobile Output.
Context	Pick from a list of available tags or add a new one for the shade object.

Note Mobile options require Documaker Mobile. If you have not purchased and installed Documaker Mobile, the required Mobile options will be disabled. To purchase Documaker Mobile, visit *My Oracle Support* website or contact your Oracle Sales representative.

Defining Tab Stops

Use these properties on the Tab Stops tab to define tab settings for your paragraph.

Paragraph	Tab stops	Border	Shade	Bullets	
Tab prope	rties				
🔁 🗶 🤏 🔇	0				
🗢 Tab stop	s				
Default			600 FA	APs .	

Property Description

Default	Enter the amount of space you want to set as the default tab spacing. For instance, if you are
	using FAP units (2400 per inch) and you want your tabs spaced25" apart, you would enter 600.

Defining Border Properties

Use these properties on the Border tab to define the border around the paragraph.

Border properties	
0 X 9 0	
Display border	
Left	
Тор	
Right	
Bottom	
✓ Line weights	
Horizontal	15 FAPs
Vertical	15 FAPs
From text	0 FAPs
Pattern	Solid
Color	default
Color	

Property Description

Display Border Check this box if you want the system to display and print a border around the paragraph. Once you check this box, the Left, Top, Right, and Bottom properties are enabled.

Left	Check this box to display and print a border to the left of the paragraph.
Тор	Check this box to display and print a border above the paragraph.
Right	Check this box to display and print a border to the right of the paragraph.
Bottom	Check this box to display and print a border below the paragraph.
Line Weights	
Horizontal	Enter the line weight you want for horizontal lines. The greater the number, the thicker the line.
Vertical	Enter the line weight you want for vertical lines. The greater the number, the thicker the line.
Spacing	
From Text	Enter the amount of space you want between the border and the text of the paragraph.
Style	

Property	Description
Pattern	Choose a pattern for the fill of the border lines.
Color	Choose a color for the border lines.

Click OK to save your entries or Cancel to exit without making changes.

Defining Shade Properties

Use these properties on the Shade tab to define background shading for the paragraph.

Shade Options		
G) 🗶 🜒 🕨 🍕	0
¥	General	
	Name	
•	Coordinates	
Þ	Attributes	
•	Accessibility	
	Skip Reading	
	Alternate Text	
•	Mobile	
	Omit	
	Context	

Property	Description
Display Shade	Check this box if you want the system to display and print a shaded area behind the paragraph. Once you check this box, the Pattern and Color properties are enabled.
Pattern	Choose a pattern for the fill of the shaded area.
Color	Choose a color for the shaded area.
Spacing	
From Text	Enter the amount of space you want between the shaded area and the text of the paragraph.

Click Ok to save your entries or Cancel to exit without making changes.

Defining Bullet Properties

Use these properties on the Bullet tab to define how bullets appear in the paragraph.

Paragraph Tab stops Borde	er Shade Bullets
Bullets and Numbering	
© X 9 0	
➡ Bullets	
Special	Number
✓ Attributes	
Font	11010 Times-Roman 10 PT (PCL AFI
Style	1, 2, 3,
▼ Format	
Prefix with	
Postfix with	
Start at	1
Align	Left
Vertical Align	default
Indent	0 FAPs
Textindent	600 FAPs
Color	default
Underline	

Depending on your entry in the Special field, different properties appear. Shown here are the properties for Number bullets.

Property	Description
Bullets	
Special	Choose the kind of bullet you want. You can choose from None, Font, Graphic, Number, or Symbol.
Attributes	
Font	(Font, Number, and Symbol bullets only) Select the ID of the font you want to use
Character	(Font bullets only) Enter the bullet character. Click the ellipsis button to display the Symbol window and choose a character from the ones shown there.
Graphic	(Graphic bullets only) Enter the name of the graphic file you want to use as a bullet. Click the button to select a file from the library.
Symbol	(Symbol bullets only) Click the ellipsis button to select from a list of system-supplied symbol bullets. Your choices include filled and hollow round bullets and filled and hollow square bullets.
Style	(Number bullets only) Select the numbering style you want to use. You can choose from numeric (1, 2, 3), lowercase alphabetic (a, b, c,), uppercase alphabetic (A, B, C), lowercase roman numerals (i, ii, iii) or uppercase roman numerals (I, II, III).
Prefix With	(Number bullets only) Enter up to two characters to precede the number, letter, or roman numeral.
Postfix With	(Number bullets only) Enter up to two characters to follow the number, letter, or roman numeral.
Start At	(Number bullets only) Check this box and then enter the number, letter, or roman numeral at which you want the system to start numbering. The default is 1, a, A, i, or I, depending on your choice in the Style property.
Align	Specify the alignment for the bullet. You can choose from Center, Decimal, Left, and Right.
Vertical Align	Specify the vertical alignment for the bullet. You can choose from the default or Top.

Property	Description	
Indent	Enter the amount of space you want to indent the bullet from the left.	
Text Indent	Enter the amount of space you want to indent the text from the bullet.	
Color	Choose a color for the bullet. Click the ellipsis button to display the Color Selection window. On this window you can choose a color and specify whether you want the system to print the bullet in that color.	
Underline	(Font and Number bullets only) Check this box if you want an underline beneath the bullet.	

Click OK to save your entries or Cancel to exit without making changes.

DEFINING TABLES

Use the Table wizard in Studio to create tables in your sections. This wizard guides you through the process and optionally lets you select a data extract record to link to a table. This record is then used to trigger the table. The record's children are linked to the table columns. Studio uses the existing XDD rule, so you do not have to set up field mapping rules for the table and the Extract Data Dictionary.

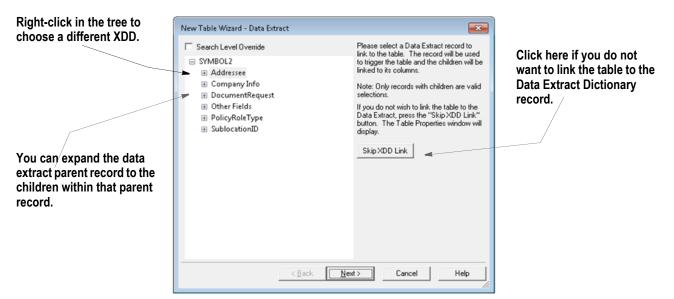
Keep in mind...

- You can only select records which have children.
- You can only select one record per table.
- If the field is defined in your Common Fields (FLDB) database, Studio assigns the type defined there. If the field is not in the FLDB, Studio assigns alphanumeric as the type.
- For each column, Studio assigns the XDDTrigger rule in the Custom Rule Name field. In the Custom Rule Parameters field, Studio prefixes a question mark (?) to the child name. Here is an example:

0 😡		
		Cance
Trigger		Help
Name	{Manual Trigger}	neip
Description		
Task Comments		
Advanced		
Transaction codes		
Search mask (True/False)		
Search Mask (counter)		
Occurrence Flag	1	
Records on different first se	ect	
Records per overflow sect	ion	
Custom rule name	XDDTrigger	
Custom rule parameters	?Addressee/#1294339750	
, , , , , , , , , , , , , , , , , , , ,		

To create a table using the Table wizard, follow these steps:

- 1. Open or create a section.
- 2. Choose the Insert, Table option.
- 3. The New Table Wizard Data Extract window appears:



The right click menu contains the following Data Extract Dictionary (XDD) options:

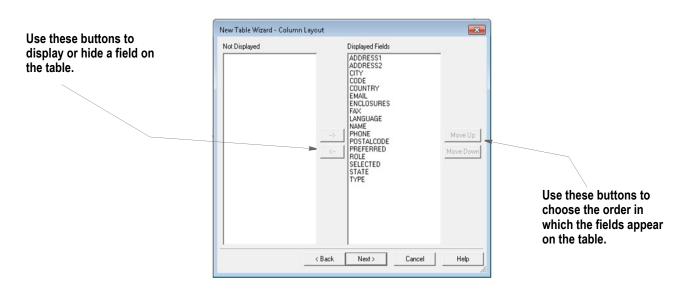
New Table Wizard -	Data Extract	
Search Level Ov SYMBOL2 Addressee Company I Document Other Field PolicyRole	info Request s Type	Please select a Data Extract record to link to the table. The record will be used to trigger the table and the children will be linked to its columns. Note: Only records with children are valid selections. If you do not wish to link the table to the Data Extract, press the "Skip XDD Link" button. The Table Properties window will display.
đà	Select New XDD File <u>F</u> ind Edit Data Extract Expand All Collapse All Sort by Offset No Sort	Skip XDD Link
	< Back Ne	xt> Cancel Help

Select New XDD File	Select a different Data Extract Dictionary file from the library.
Find	Displays the Find dialog. You can search by Name, Parent and\ or Rule
Edit Data Extract	Checks the Data Extract Dictionary out of the library for editing
Expand All	Expands the list of Data Extract Dictionary records on the Table Wizard dialog
Collapse All	Collapses the expanded list of Data Extract Dictionary records on the Table Wizard dialog
Sort by Offset	Sort items in the Data Extract Dictionary by offset key
Sort by Parent	Sort items in the Data Extract Dictionary by parent
No sort	Sort items by field name

The right click menu can be accessed by pressing right mouse button or by holding down the Shift key on the keyboard and then pressing the F10 key.

Select Skip XDD Link if you do not want to link the table to Data Extract Dictionary record.

- 4. Highlight the data extract parent record you want to link to the table, then click Next.
- **Note** If you click the Skip XDD Link button, Studio takes you to the Table window where you can define the appearance of the table. For more information, see *Setting Table Options* on page 365.
 - 5. The New Table Wizard Column Layout window appears.
 - 6. Use this window to choose the fields you want to display or hide and to specify the order in which the fields appear on the table. Keep in mind you have to display at least one field to have a table linked to the XDD.



Click Next when finished. The New Table Wizard - Summary window appears.

New Table Wizard - Sumn	nary			×
You have successfully crea	ted the table.			
Generate XDD Lookup:	using Name/Pare	nt		
Generate Labels for Tal	ole Columns			
Open the Table Propert	es Window			
	< Back	Finish	Cancel	Help

You have these choices:

Click this box	If you want
Generate XDD Lookups using Name/Parent	XDD searches to use the name/parent lookup instead of the name/unique ID lookup.
Generate Labels for Table Columns	Studio to include a row for column labels. Studio includes the name of the corresponding field you selected for that column as the label The label text can be truncated to fit in the column. You can change this text as needed. You can also later delete this row.
Open the Table Properties Window	To customize how the table will appear.

Click Finish to tell Studio to create the table and map the appropriate triggers and fields. The Table window appears.

Note See on page 367 for more information on Name/Unique ID lookup.

Use the properties on the Table window to customize the appearance of your table. See *Setting Table Options* on page 365 for more information.

Understanding XDD Name References

To have fully-qualified names, a Unique ID field was added in version 11.5. The system generates this value and you cannot edit it. When you open an XDD file that has not been converted to include the Unique ID, the system automatically generates this entry.

When you select an XDD item to map, the item appears with the name of the child, a forward slash (/), a number sign (#), and the Unique ID. Here is an example:

CHILD/#UNIQUEID

The lookup wizards in Studio automatically fill in the proper syntax for you.

The system supports previously-defined mappings that use the name or child/parent naming convention. Documaker Server caches child/parent combinations for legacy support, and also caches the child/#unique ID identifier to enhance performance.

If you are using multiple XDDs with the same child/parent combinations, you will still want to use child/parent search masks. For example, you would use the XDD override at the form list level if a section with XDD mapping appears in multiple lines of business and the extract differs for each line of business. In this case, use the child/parent combination to make sure the proper nodes are found in each file.

Note

If you do not use XDD overrides at the form list level and are certain you are not using the older, Child/Parent mapping method, you can add this INI option for better performance:

```
< SymLookup >
UniqueID = Yes
```

This option tells the system you do not need child/parent name caching for XDD members and therefore saves some time when the system is loading and parsing the extract dictionary during processing.

SETTING TABLE OPTIONS

Use the table options to customize the position, size, and appearance of the tables you create.

	*	Table Options								
Choose from these pre-set		Table Row Cell								
table styles. You can then	-	Table options								
customize those settings if	1	 Ø 								ок
-										Cancel
necessary.		General					Ħ		Ŧ	
	11	Name	1	ABLE		None	All	Outside	Inside	
		Style Table Columns				None	Al	Outside	Inside	
		Width	4	825 FAPs				F 773		
		Horizontal		212 FAPs						
		Vertical		025 FAPs		Тор	Bottom	Left	Right	
		Gap		00 FAPs						
		Border		00174.5						
		Left	6	7		Inner	Inner			
		Тор	6			Horizontal	Vertical			
		Right	6							
		Bottom	6							
		Inner Vertical	6							
		Inner Horizontal	6							
Click in a cell to change the		Horizontal		FAPs						
width of that cell.		Vertical		FAPs						
		Pattern	S	olid						
		Color		default						
		Shading								
		Whole table	Г	None						
		First row		Solid						
		Last row		Solid						
\ \		First column		Solid						
		Last column		Solid						
		Odd banded row		None						
\		Even banded row		Solid						
		Odd banded column		None						
$\langle \rangle$		Even banded column		Solid						
		Accessibility								
		Skip Reading	[]						
		Alternate Text								
		Mobile								
		Omit	0]						
		Context								
		Col 1		Col 2		Col	3		Col 4	
2		1206 FAPs	120	6 FAPs	120	6 FAPs		1207 FAF		
	1 💷									

Table Tab:

Field	Description
General	
Table Columns	The number of columns in the table. If the number is increased, new columns are added to the right side of the table. If the number is decreased, columns are removed from the right side of the table.
Width	The width of the table.
Name	The name of the table object.
Horizontal	The horizontal (left) starting position of the table.
Vertical	The vertical (top) starting position of the table.
Gap	The space between cell borders and cell content (margin).

Field	Description
Border	
Left	When selected, displays the left table border.
Тор	When selected, displays the top table border.
Right	When selected, displays the right table border.
Bottom	When selected, displays the bottom table border.
Inner Vertical	When selected, displays the inner vertical table border.
Inner Horizontal	When selected, displays the inner horizontal table border.
Horizontal	Sets the horizontal border thickness.
Vertical	Sets the vertical border thickness
Pattern	Use to set the border pattern.
Color	Use to set the border color.
Shading	
Whole table	Shading of whole table ("first", "last" or "banded" options will override whole table shading)
First row	Set the shading for the first table row. This shading is enabled by the "First row" shading button of the "Table" toolbar or "Table" menu.
Last row	Set the shading for the last table row. This shading is enabled by the "Last row" shading button of the "Table" toolbar or "Table" menu.
First column	Set the shading for the first table column. This shading is enabled by the "First column" shading button of the "Table" toolbar or "Table" menu.
Last column	Set the shading for the last table column. This shading is enabled by the "Last column" shading button of the "Table" toolbar or "Table" menu.
Odd banded row	Set the shading for odd table rows. This shading is enabled by the "Banded rows" shading button of the "Table" toolbar or "Table" menu.
Even banded row	Set the shading for even table rows. This shading is enabled by the "Banded rows" shading button of the "Table" toolbar or "Table" menu.
Odd banded column	Set the shading for odd table columns. This shading is enabled by the "Banded columns" shading button of the "Table" toolbar or "Table" menu.
Even banded column	Set the shading for even table columns. This shading is enabled by the "Banded columns" shading button of the "Table" toolbar or "Table" menu.

Property	Description
Accessibility	
Skip Reading	Check on to exclude the table from being read by assistive technology.
Alternate Text	Enter the alternate text to use.

Property	Description
Mobile	
Omit	Select this check box if you do not want the object or resource to be included in the Mobile Output.
Context	Select this option to pick from a list of available tags or add a new one on the particular object.

Note Mobile options require Documaker Mobile. If you have not purchased and installed Documaker Mobile, the required Mobile options will be disabled. To purchase Documaker Mobile, visit *My Oracle Support* website or contact your Oracle Sales representative.

Columns

When using the Table Options dialog to create or modify a table, the column widths can be specified in the grid at the bottom of the dialog. New width values can be typed into the cells or the column border can be dragged to change the values.

Position your cursor on the column line between 2 columns until it becomes a resize cursor, and then drag the line left or right until the table column is the desired width.

 •	

When a column width is changed (i.e. increased) other column widths need to be changed (decreased) so they fit in the table.

By default all the columns are proportional (black text in the header) which means their value will be changed proportionally when the value of other columns change. Double clicking on the header of a column will change it to be fixed (blue text in the header). Columns that are fixed will not be changed when other column widths are modified. **Note** If all the columns are fixed other than the one being changed then the width of the table is modified.

The grid width in the Table Options is updated to reflect the changes made to both the fixed and the proportional columns.

Row

Table Row Cell Row options		ОК
1		ОК
(i) (i)		
		Cancel
Preferred height 963	FAPs	
Repeat as header row at the top of each page		
 Accessibility 		
Skip Reading		
Alternate Text		

Row properties apply to the currently selected table row.

Property	Description
General	
Preferred height	Set a minimum row height, when checked and a height greater than zero is provided. If the content in any cell of the row is taller than the given height, the row will grow taller as needed.
Repeat as header row at the top of each page	Use this option to repeat the header row when the table flows to additional pages. Any editing updates to the header on the first page of the table will flow to the repeated header on the other pages.

Property	Description				
Accessibility					
Skip Reading	Check on to exclude the row from being read by assistive technology.				

Property	Description

Alternate Text

Enter the alternate text to use.

Cell

Table Options		
Table Row Cell		
Cell options		ок
4) 😺		Cancel
 General 		Cancer
Preferred width	2126 FAPs	

These properties apply to the currently selected table cell.

Property	Description				
General					
Assign general settings to If no table cell is activated	table cell. I for editing, these settings may be disabled.				
Preferred width	Sets the desired width of the selected cell.				

WORKING WITH TABLES

Once you have created a table object, modifications to the table can be performed within the table editor. Double click on a table object to access the table options and other table properties; the Properties panel – Row options displays:

R	Row options							
C) 🗶 🜒 🕨 🖹							
÷	General							
	Style							
	Table options	Table options						
	Triggers	0						
¢	Default							
	Font ID	24010 Albany AMT 10 P						
	Tab stops	600 FAPs						

Row Options

Property	Description					
General						
Style	(Optional) Assign a style to the table.					
Table optionsSee the discussion on Table properties.						

Triggers

Assigns a trigger to the selected row.

0		Cancel
Trigger		
Name	ALWAYS	Help
Description		
Task Comments		
Advanced		
Transaction codes		
Occurrence Rag	1	
Records on different first section		
Records per overflow section		

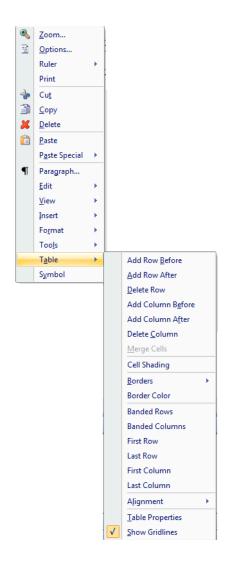
Property	Description
General	
Name	Select the trigger name from the trigger list or select Manual Trigger to create your own search conditions.
Description	Enter an optional description of the trigger. Selecting a predefined trigger will bring any description defined for the routine.
Task Comments	To do comments that will appear in Finishing Report.
Advanced	

Property	Description
Transaction codes	By including one or more Transaction codes in this field, you trigger a particular form (or Section) only if the extract file record includes that particular Transaction Code.
Occurrence flag	To use the search mask as a counter, the Occurrence Flag (overflow) must be set to one (1). Use with the Search Mask Counter, Records on Different First Section, and Records Per Overflow Section fields. (0=no overflow and 1=overflow) Performance issue flags in this field include: • Master (M) form level trigger flag • Form (F) form level trigger flag • Subordinate (S) Section level trigger flag
Records on different first section	Lets you indicate the number of records that appear on the first Section before overflowing to a new Section.
Records per overflow section	Lets you specify the number of records matching the search mask that will fit on the specified overflow Section.
The following apply to M	anual Triggers only
Search Mask (Counter)	Define the search criteria to use in determining how many duplications of this item to include in the resulting document. The trigger will be applied once for each occurrence found by the search mask. If no matching data is found, the trigger result is 0 (False) and the item is normally excluded.
Search Mask (True/ False)	Define the search criteria to use in determining whether this event should occur. If the search yields a result, a True result is returned. If the search finds no data, the trigger result will be False.
Custom Rule Name	This field defines an alternate (custom) rule to execute on this manual trigger to determine its result. For most manual triggers, this field should be left blank.
Custom Rule Parameter	This field defines an alternate (custom) rule to execute on this manual trigger to determine its result. For most manual triggers, this field should be left blank.
Default	
Font ID	Sets the font ID that will be used for text that is typed in the table cell. To change the Font ID for text already in the text area, use the "Format" toolbar.
Tab Stops	Set the default tab position.

The table menu includes several table settings as well as table actions such as Add Row Before and Add Row After.

			Secti	ons														X
U Home	Edit View	Insert	Format	Table	Tools	Help												. 8 X
Properties	Add Row Before Ad	id Column B	lefore M	erge Cells	Width 25	03 FAPs	;	Eleft	Тор	Borders*			Pattern	Solid	•	Cell	Last column	
Show Gridlines	Add Row After Ad	dd Column A	ðer 👘					🚊 Center	Center	Horizontal	8 FAPs	:	Colo	or		Banded Rows		
	Delete Row De	elete Column	1					🚊 Right	Bottom	Vertical	8 FAPs	1				Banded Columns		
Options	Rows And	Columns		Merge		Cell Size		Alignr	ment			Borde	95			Shading		

These same settings and actions are also available from the right click menu when in table editor mode.



Note The right-click menu can be accessed by pressing right mouse button or by holding down the Shift key on the keyboard and then pressing the F10 key.

Option	Description
Add Row Before	Add a row before the selected table row.
Add Row After	Add a row after the selected table row.
Delete Row	Deletes the selected table row including row data
Add Column Before	Insert a column before the selected table column
Add Column After	Insert a column after the selected table column

Option	Description
Delete Column	Deletes the selected column including column data
Merge Cells	Merges (combines) the selected cells into one cell including cell data
Cell Shading	Set the shading for the selected cells. Cell shading for specific cells will override table shading or banded shading.
Borders	Set the border style, thickness, patter and color for the selected cells. Any cell level border changes will override the table level border settings in Table Options
Border Color	Sets the border color
Banded Rows	Shades alternate table rows with the shading colors and patterns defined under the Shading group in Table Options
Banded Columns	Shades alternate table columns with the shading colors and patterns defined under the Shading group in Table Options
First Row	Sets the shading for the first table row
Last Row	Sets the shading for the last table row
First Column	Sets the shading for the first table column
Last Column	Sets the shading for the last table column
Alignment	 Sets the cell alignment: Left Align - all paragraphs in table cells are left aligned Center Align - all paragraphs in table cells are centered Right Align - all paragraphs in table cells are right aligned Vertical Top Align - applies vertical top alignment to all paragraphs in table cells Vertical Center Align - applies center alignment to all paragraphs in table cells Vertical Bottom Align - applies vertical bottom alignment to all paragraphs in table cells Vertical Bottom Align - applies vertical bottom alignment to all paragraphs in table cells Note: Vertical, Center and Bottom positions of the paragraphs are depending on the row height. Preferred row height can be set in the Table Options dialog or by dragging the row bottom border with the mouse.
Table Properties	Displays Table Options
Show Gridlines	Toggles the display of table grid lines. Gridlines are helpful for seeing cells that do not have borders defined.

Merging Table Cells

Studio provides support for merging column and row spans within tables.

The Merge Cells Format option is used to merge sequential cells within a table.

When in table editor mode on a table, the Merge Cells option is available from the right click menu (Table, Merge Cells), the table tab (Table, Merge, Merge Cells) and the table menu (Format, Table, Merge Cells).

The right click menu can be accessed by pressing right mouse button or by holding down the Shift key on the keyboard and then pressing the F10 key.

Note The Merge Cells option is inactive until table cells are selected.

You can select any sequential combination of cells to merge. The resulting merged cell will span the full width and height of the combined cells.

Merging is restricted to a sequential set of cells along a vertical or horizontal line. The combination of cells must be directly connected at their top, bottom, left, or right border

When table cells are merged, the cells border properties are retained for left and right, but not top and bottom. The top and bottom borders of the top and bottom most cells in the merge are utilized.

The Row properties from the top row are applied to the merge including "Repeat as header row".

The number of columns in Table properties is updated to reflect reduced column value after merging columns.

The following examples illustrate various merging scenarios including those cases where merging is not allowed.

This is a table prior to merging. Each cell is labeled with the cell number.

•	Auto Property		Centered & Italicized	d	Blue
•	Casualty	cell1		cell2	cell3
1	One Two		Indented text		Right Justified
3	Three	cell4		cell5	cell6
FIE	ELD		Name Insured		Jane M. Doe
		cell7		cell8	cell9
Ge	eorgia	cell10	California c	ell11	Texas cell12

Cells 1 and 5 cannot be merged because they do not share a common border: Cells 1, 3 and 9 cannot be merged because they do not share a common border. Cells 1, 2, 4 and 5 can be merged as they share a common border:

 Auto Property 		Blue
 Casualty 	& Italicized	Right Justified
1 One 2 Two 3 Three Indented text		
FIELD	Name Insured	Jane M. Doe
Georgia	California	Texas

When table cells are merged, the combined cell will span the full width and height of the combined cells. Table content, including fields, text or graphics are not removed from the table when table cells are merged. Properties such as font, bulleting, numbering, alignment, indentation and spacing are retained.

This table contains a mix of text formatting – bulleted text, justification, font properties and text color:

 Auto Property Casualty 	Centered & Italicized	Blue
1 One 2 Two 3 Three	Indented text	Right Justified
FIELD	Name Insured	Jane M. Doe
Georgia	California	Texas

When all of the cells in the top row are merged, the formatting (left justification for bulleted text, centered justification for other text), bulleting and font properties (bold, italic, different point sizes) and text color are all retained:

 Auto Property Casualty 	Centered & Italicized	
	Blue	
1 One 2 Two 3 Three	Indented text	Right Justified
FIELD	Name Insured	Jane M. Doe
Georgia	California	Texas

When all of the cells in the far left column are merged, the formatting as well as the unique highlighting is retained on words within the cells

Auto Property	Centered & Italicized	Blue
 Casualty 	Indented text	Right Justified
1 One ; 2 Two 3 Three FIELD	Name Insured	Jane M. Doe
Georgia	California	Texas

The number of columns in the table after merging columns will reflect the new reduced number of rows in Table Properties. For example, in the table below, the number of columns shows 3:

 Auto Property Casualty 	Centered & Italicized	Blue	
1 One 2 Two 3 Three	Indented text	Right Justified	
FIELD	Name Insured	Jane M. Doe	
Georgia	California	Texas	
Mable Options			
Table Row Cell	1		
Table options ● ● ● Style Table Columns 3	None Al	OK Cancel	

The far left and center columns are then merged. The number of table columns is updated to 2 reflecting the number of columns in the table after column merging:

 Auto Property Casualty 	Centered & Italicize	d			Blue Right Justified
1 One 2 Two 3 Three Indented text				Jane	.M.Doe
FIELD Name Insured Georgia					Texas
	California				
Table Options				- 0 %	1
Table Row Cell					
Table options ①				OK Cancel	
🗢 General					
Name	TABLE			÷	
Style		None	All	Outside	
Table Columns Width	2 13735 FAPs	(T)		E	
Vilden	13730 FAPS	II A		[]]	

Triggers and Other Row Attributes

In the case of triggers the following rules are applied:

- If two or more cells within the same row are merged
 - There is no impact to the triggers that are applied to the row.
- If two or more cells within the same column are merged
 - Merging vertical cells does not alter or combine the triggers on the rows. Each row will still honor its triggers for the other cells on the row that are not part of the vertically merged cell.
 - The text and field content of a vertically merged cell is not affected (or repeated) by a trigger on any of the rows within the vertically merged cell.
 - If a triggered row is part of a vertically merged cell, then the vertically merged cell will grow taller with the additional rows that are inserted by the trigger and these additional rows will still publish additional instances of the text and field content which is in cells that are not part of a vertically merged cell.
- If two or more cells across multiple rows and columns are merged
 - The same rules applied to a merger of two cells within the same column apply.
- The trigger indicator "lightning bolt" will appear on the edge of the first cell that is not part of a vertically merged cell. The trigger still "belongs" to the row (not an individual cell), but moving the indicator away from the merged cell will aid with clarity.

Rich Text File Conversion and Section Objects

Rich Text Format (RTF) is supported in many document composition systems. Documaker supports RTF as a print output type. When using RTF output, Studio section objects are editable upon conversion to RTF files, with the exception of logos, vectors, and TOC entries.

In addition, table objects defined in the sections are output as RTF table objects when you use the non-framed output mode. Where possible, the attributes defined for the Documaker table are carried over to the table generated in RTF output. This includes the current size and layout of the columns, as well as the "grid" lines used to border the cells.

Not all documents are good candidates for non-framed RTF output, the purpose of which is to provide an output for RTF users to edit text-based content within a document. Documents such as correspondence where the output is structured with a header, footer, and a body consisting of paragraph text are candidates for non-framed output. Applying the non-framed output option should be used in situations where the document fidelity is secondary to the ability to edit.

Documents that make use of numerous lines and boxes and overlapping content are generally not good candidates for non-framed RTF output. For these document types, RTF frames are used to control the precise placement of content. This means that when it is important to maintain the fidelity of the original Documaker document, you should use the frames output option.

To configure the RTF driver use the Manage, System, Settings menu option. The INI file entry that affects table objects is Write_Frames:

```
< PrtType = RTF >
WriteFrames = No
```

The default setting is Yes, which writes framed RTF output.

Table with Multiline Text Field

Studio 12.6 and higher lets you set a table cell as multiline text field by selecting the table cell option ":Set as multiline text field" or by inserting a multiline text field into a table cell.

Note Table cells will not split even when they contain a multiline text field.

You can set a table cell as a multiline text field by selecting the table cell option "Set as multiline text field", by following these steps:

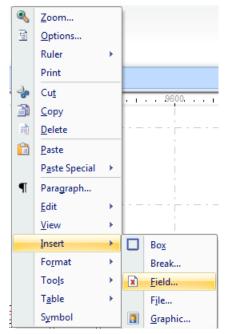
- 1. Click in the desired table cell after the table has been created.
- 2. Select Properties from the Table, Options tab or menu or right-click and select Table, Table Properties from the right-click menu to display the Table Options dialog.
- 3. Click the Cell tab on the Table Options dialog. Click Set as multiline text field.

4	Table Options	
Table Row Cell		
Cell options		
i) 🔞		
General		
Preferred width	3256 FAPs	
Interactive editing		
Set as multiline text field	Set	

The Insert Field dialog displays with the field type set to Multiline Text. Click OK to set the table cell as a multiline text field, then click OK on the Table Options dialog.

۶		Insert Field	×	
F	orm Set Common Field	s Data Extract New Field	ОК	
F	ield Options		Cancel	
	Ð 🕖			
÷	Field Properties	<u>+</u>	-	
	Name	FIELD	1	
	Style			
	Represent with	FIELD		
	Prompt	ot		
	Font ID	24010 Albany AMT 10 PT (PCL AFP X		
	Туре	Multiline Text		
	Format			
	Task Comments		-	

Multiline text fields can also be inserted in a table cell by selecting Insert Field from the right-click menu after clicking in a table cell when in table editor mode. Insert Field dialog displays as shown in the following figure:



In Insert Field dialog, click the New Field tab, set type to Multiline Text and click OK. Table Cell is now a Multiline Text field.

Insert Field	ters, include a second second	×
Form Set Common Fields Data Extract	New Field	ОК
Field Options		Cancel
۹) 🔞		
		Copy font attributes
Field Properties	FIELD #000	from field
Name	FIELD #002	
Represent with	FIELD #002	
Prompt		
Font ID	24010 Albany AMT 10 PT (PCL AFP XER Oth)	
Туре	Multiline Text	
Format		
Task Comments		
Paragraph		
Hyphenation	None	
Tab stops	0 FAPs	
Columns	1	
Paragraph Selection		
Attributes		
Scope	Section	Mark field
Required		hidden as
Can grow and shrink		part of tex
Can span pages		area
Must fit on page		
Adjust top line		
Never Print		
Underline	None	
Strikeout		
Locale	Neutral	
Field Color	default	
Redact Tag		

For more information on multiline text field properties, refer "Inserting a Field" section.

CREATING TABLES OF CONTENTS, TABLES OF FIGURES, AND INDEXES

You can add tables of contents, tables of figures, and indexes to your form sets to help readers navigate to specific topics. This process consists of these main steps:

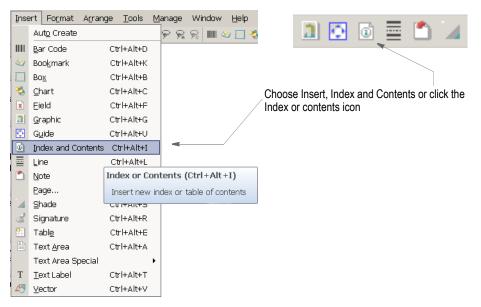
- Adding bookmarks to the sections that comprise the form set. Adding bookmarks is the process of placing markers in the places you want to appear in the table of contents, table of figures, or index and adding the appropriate text for those markers. For more information, see *Adding Bookmarks* on page 317.
- Defining the how you want the generated result to appear.
- Generating the table of contents, table of figures, or index. For more information, see *Generating Tables of Contents, Tables of Figures, or an Index* on page 387.

DEFINING TABLES OF CONTENTS, TABLES OF FIGURES, AND INDEXES

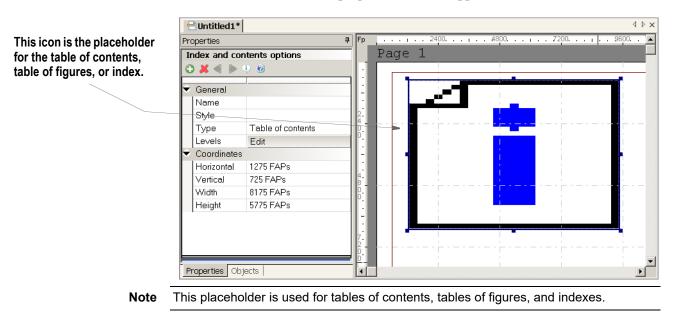
Before you generate a table of contents, table of figures, or index, you define where and how you want the result to appear.

To add a table of contents, table of figures, or index, follow these steps:

- 1. Open the section that will contain the table of contents, table of figures, or index. This section should be included in a form in the form set.
- 2. Choose Insert, Index and Contents or click the Index or Contents icon.



The Index and Contents properties window appears.



3. Use the Index and Contents properties to define the table of contents, table of figures, or index:

Property	Description
General	
Name	(Optional) Enter a name for the table of contents, table of figures or index. Assign a unique name to facilitate reference to the table of contents, table of figures or index for editing or other purposes. Although a name is not required, it is recommended that one be provided. In the absence of a name, the horizontal and vertical coordinates of the bar code are used to locate\ reference the bar code. These coordinates may not have significance or meaning to users.
Style	This field only appears if you specified a style file in the BDF file. Select the style you want to use.
Туре	Table of Contents is the default, but you can also choose to create a table of figures or an index.
Scope	 This option lets you include multiple tables of contents, tables of figures, or indexes in a single document, each defined to include content from a form, a group, a form category or the entire form set. Form - All bookmarked content in the current form is generated. Form Category - All bookmarked categories in the current form are generated. Formset - All bookmarked content in the entire form set is generated. Group - All bookmarked groups in the current form are generated.
Order By	 (Table of Contents and Figures only) This option lets you specify the order of the items which will appear in the table of contents or figures. You can choose from these options: Page Coordinates - When selected the contents generated use the position on the page to group the items from the top left to bottom right. Section Sequence - When selected the contents generated use the section sequence to group items from the top left to the bottom right within the section.
Caption	(Table of Figures only) Enter the caption you want to appear with the table of figures.
Language	(Index only) Select the appropriate language from the list.
Columns	(Index only) Specify how many columns you want for the index.
Column Gap	(Index only) Specify the amount of space between the columns.
Levels	Click the Edit button in this field to specify how you want the system to format each level of your table of contents, table of figures, or index. You can specify up to nine levels for each. For more information, see <i>Defining Levels</i> on page 385.
Coordinates	
Horizontal	Specifies the horizontal position of the upper left hand corner of the table of contents, table of figures, or index. You can change the chart's position by entering coordinates or by using the Left and Right arrow keys.
Vertical	Specifies the vertical position of the upper left hand corner of the table of contents, table of figures, or index. You can change the chart's position by entering coordinates or by using the Up and Down arrow keys.
Width	Specifies the width of the table of contents, table of figures, or index. You can change the width by entering a value or by dragging the chart handles.

		Property	Description
		Height	Specifies the height of the table of contents, table of figures, or index. You can change the height by entering a value or by dragging the chart handles.
Note	size	the table base	properties define where the tables or index are generated. You can ed on how large you want it to be. The system creates additional pages but the table does not flow dynamically.

4. Click OK to save your entries or Cancel to exit without making changes.

Defining Levels

Studio lets you specify the formatting for each level in the table of contents, table of figures, or index. The content of these levels is determined by the bookmarks you set. You can control the formatting of each level.

For	The system
Tables of contents	Matches the level number of the bookmark to the level paragraph format. You can define up to nine table of contents levels. The system also lets you define leading and page numbering.
Indexes	Uses the first three formats defined for the index. When you choose index, you can set the number of columns and the gap between columns. You can also specify the locale for sorting purposes and to include Unicode text.
Tables of figures	Uses the first format defined for the figure. When you create a table of figures, you define the prefix text to display and print. For a table of figures, the system generates prefix text, figure number, and a colon, before the text and page number.

Here are some examples:

Here is an example of a two-level index.

projects assigning roles 71 granting rights 76

Here is an example of a	
three-level table of	
contents.	

Using Docuflex	33
Charts	
Creating Docuflex Charts	
Chart Types	
Overflow Processing	
Using Overflow Definitions	41
Step 1: Create the Sections and Members	
Step 2: Create an Overflow Definition	
Step 3: Reference the Overflow Definition	

Here is an example of a table of figures.

Follow these steps to define levels for your table of contents, table of figures, or index:

Chart 1: Mammal Habitats -----

Chart 2: Intelligence Chart -----

1. On the Index and Contents Options window, click the Edit button in the Levels field. The Index Levels window appears.

-2

--3

	ኞ Index Levels	
Highlight the level you want, then define how you want the system to format it.	Index Levels Level Level 1 Level 2 Level 3 Level 4 Level 5 Level 6 Level 7 Level 8 Level 9 OK Cancel	Levels General Font ID 11010 Times-Roman 10 PT (PCL / a Page numbers Page number FORMSET PAGE NUM Right align Lead with None Paragraph Edit
		li.

2. Use these fields to define each level. Remember that indexes have two levels (main entries and sub entries) and tables of figures have one level. Tables of contents can have up to nine levels.

Property	Description
General	
Font ID	Select the ID of the font you want to use.
Page Numbers	
Page Number	 Select the kind of page numbering you want. You can choose from these options: None - no page numbering Form Page Num - Tracks page numbers within the form Formset Page Num Tracks page numbers within the form set
Right Align	Check this box if you want the page number right aligned.
Lead With	Select the type of leading you want. Your selection determines what characters fill the space between the end of the bookmark text and the page number. You can choose from None, Dashes (), Periods (), or Underscores ().
Paragraph	Click the Edit button to define the paragraph properties for this level. For more information see <i>Creating Paragraphs</i> on page 472.

3. Click Ok to save your entries or Cancel to exit without making changes.

GENERATING TABLES OF CONTENTS, TABLES OF FIGURES, OR AN INDEX

Once you add your bookmarks, or assign levels to your paragraphs, and then define where and how you want the compiled table or index to appear, the system will generate the table of contents, table of figures, or index for you when the form set is processed.

Keep in mind that to create tables of contents or figures or an index, all sections must be loaded *before* the print operation executes. Otherwise, the system does not have all the content available and cannot create a complete table of contents, table of figures, or index.

Because some print drivers do not force the loading of all sections until necessary, this means you may have to include an additional INI option.

For Documaker Desktop, you would include this option:

```
< Control >
LoadPrintOnly = Yes
```

For Documaker Server (GenPrint), you would include this option:

< RunMode > DownloadFAP = Yes

CREATING A VECTOR

Use the Insert, Vector option to create vector drawings in your images.

The default vector type is a Rounded rectangle. These other vector types are also available:

- Arc
- Chord
- Circle
- Ellipse
- Pie slice
- Polyline
- Winding polygon

-) 🗶 🜒 🕨 🦃	
•	General	
]	Name	
	Туре	Rounded rectangle
	Pen	
	Style	Solid line
	Width	14 FAPs
	Color	default
	Brush	
	Style	None
	Color	
	Coordinates	
	Horizontal	1450 FAPs
	Vertical	1300 FAPs
	Width	6100 FAPs
	Height	3650 FAPs
	Attributes	
	Pre-printed	
	Points	
	Accessibility	
1	Skip Reading	
	Alternate Text	
	Mobile	
1	Omit	
	Context	

Property	Description	
General		
Name	 (Optional) Enter a name for the vector. Assign a unique name to facilitate reference to the vector for editing or other purposes. Although a vector name is not required, it is recommended that a name be provided. In the absence of a name, the horizontal and vertical coordinates of the vector used to locate\ reference the vector. These coordinates may not have significance or meaning to users. Note: If you enter a name such as Vector, the system will automatically increment the vector objects name to Vector #002, Vector #003 when you copy and paste or duplicate the vector object. 	
Туре	Select the vector type.	
Pen		
Style	Select Solid Line or Empty	
Width	The width of the Style line	
Color	The color of the Style Line	
Brush		
Style	The brush style	
Color	The brush color	
Coordinates		
Horizontal	The horizontal (left) starting position	
Vertical	The vertical (top) starting position	
Width	Width of the vector	
Height	Height of the vector	
Attributes		
Pre-printed	Check on to tell the system NOT to print this object when you print the Section.	

Using a pre-printed flag on an object can be useful during forms creation or when test printing your forms. You may be using letterhead or special paper that has the company name or logo already embossed on the paper. Inserting a text label or logo on your form in the same location as the company name or logo helps to ensure that space isn't inadvertently written over by other objects. These objects would 'reserve' that space on the form.

You may wish to include pre-printed objects when test printing the form to compare against your special paper to make sure that there is enough space on the special paper for the non pre-printed objects. By default, the Print dialog will not display a Pre-printed option. Any objects flagged with Pre-printed will not print on the form. Points Enter the Vector points

All objects except ellipses and circles are given default points to start with. The points are based as either 1/4 the length or width of the object or 1/2 inch, whichever is smaller. Click the ellipses on Points to change the initial point. Only the first point is used on rounded rectangles.

You can have multiple points on polylines and polygons.

Arcs, chords, and pie slices have two points. An arc draws an arc given the starting and ending points. The first point entered is the starting point and the second is the ending point. A chord is part of an ellipse drawn from one endpoint of a line around to the other endpoint of the line — half of the ellipse. The pie slice is just that, a slice of a pie as in a pie chart. Polylines draw from point to point. Polygons also draw from point to point, but connect the last point to the first point, making it a closed object.

When you draw a circle, the size is automatically set to be symmetrical, taking the larger of the height or width. Neither circles nor ellipses have points.

Property	Description
Accessibility	
Skip Reading	If checked on, the vector is excluded from being read by assistive technology.
Alternate Text	Enter the alternate text to use.

Property	Description
Mobile	
Omit	Select this check box if you do not want the vector to be included in the Mobile Output.
Context	Pick from a list of available tags or add a new one for the vector object.

Note Mobile options require Documaker Mobile. If you have not purchased and installed Documaker Mobile, the required Mobile options will be disabled. To purchase Documaker Mobile, visit *My Oracle Support* website or contact your Oracle Sales representative.

ADDING COMMENTS TO DOCUMAKER OBJECTS

You can attach comments to Documaker objects created in Studio or via the Documaker Add-In for Microsoft Word. Use these comments to note additional work you feel should be completed or for any other purpose.

You can add comments to these Studio files and objects:

- Forms
- Sections
- Paragraphs
- Paragraph lists
- Graphics
- Templates
- Fields
- Triggers

To add comments to forms, sections, paragraphs, paragraph lists, templates, and fields, follow these steps:

- **Note** For graphics and triggers, you add the comment after you have added the graphic to a section or assigned the trigger to a section. For information on adding comments using the Documaker Add-In, see the Documaker Add-In for Microsoft Word Online Help.
 - 1. Open the item to which you want to add comments.
 - 2. Click the item's Properties tab. Here is an example of the Properties tab for a graphic which has been added to a section:

Properties		₽
Graphic options		
🔁 🗶 🜒 🕨 🥹 🥹		
▼ General		Click here to display the Task
Name		Comments window.
Style		/
Current Graphic A	MERGENRGB	
Туре		
Color		
Resolution		
Task Comments		

3. Click the ellipsis button in the Task Comments field to display the Task Comments window:

	🌮 Task Comments	
Click here to insert a symbol.	Change to higher resolution logo when received from Marketing.	Ă
Click here to turn on word wrapping.	₹ Word Wrap	Click here to change spell checking options.
	OK Cancel Symbol Spell Check Op	stions

- 4. Enter up to 1024 characters, including spaces.
- Note The actual number of characters you can enter may be fewer in some languages.

You can also use these buttons on the Task Comments window:

Button	Description
ОК	Click OK to save your changes and close the Task Comments window.
Cancel	Click Cancel to discard any changes and close the Task Comments window.
Symbol	Click Symbol to insert typographical symbols using the Symbol window.
Spell Check	Click Spell Check to check the spelling of the text you entered in the Task Comments window.
Options	Click Options to set spell checking options.

- 5. Click Ok when you finish entering comments.
- **Note** Use the Finishing Report (Manage, Reports, Finishing Reports) option or the Task List (Tools, Task List) option to see a listing of all the comments entered for a form, section, paragraph, paragraph list, or template.

USING THE TASK LIST

The Task List lets you see a list of the task comments and undefined fields, recipients, graphics, and triggers for the Studio resource you are viewing. You should review each comment and define any undefined items.

To view a Task List, select the Task List option on the Tools menu when you are working with any of these objects:

- Templates
- Forms
- Sections
- Paragraph lists
- Paragraphs

Note You add task comments in Studio's Task Comments field or in the Documaker Add-In for Microsoft Word's Comments field.

Here is an example of a task list for a section:

	Task List 🛛 🕹 🗸					
Comments for these resources appear here:	COMDEC01_0000100002_19800101					
resources appear nere.	Q.					
	Task Comments					
Here is a list of undefined fields included in this		Here is a list of the undefined				
	2 QJANED	graphics used in this section.				
		g				
section.	AMERGENSM -					
	Undefined Fields					
	FORM LINE 1					
	FORM LINE 2					
Note	When you use the Manage, Tools, Conver	sion, Convert Documents to Forms option to				
	convert a Documaker Add-In for Word document, Studio converts any entries in the					
	Comments field into task comments.					
	Depending on the resource you are viewing, you could see comments about a field,					
	a graphic, a trigger, or a recipient. Comments could also pertain to the specific					
	resource (section, paragraph, paragraph list, form, or template) you are working					
	with., such as a reminder to add a logo or signature.					
Note	For more information, see Adding Comments to Documaker Objects on page 391.					
	Below the task comments, Studio shows a list of all undefined objects associated with the current resource.					

Object	Appears on the task list h	
Field	An entry for the field does not exist in the Common Fields Dictionary.	
Trigger	The trigger is not defined in the SETRCPTB.DAL trigger file.	
Recipient	The recipient is not defined in the Business Definition (BDF) file.	
Graphic	The graphic does not exist in the workspace library.	

Object Appears on the task list if...

Note The Finishing Report provides another way to view task comments. For more information, see *Printing a Finishing Report* on page 755.

CREATING TEXT AREAS

A text area is a block of text placed in a section. Text areas are typically used when you need to position a larger amount of text in the section or apply word processing features to that text or both.

In contrast to text labels, which are a single line of text, text areas can contain multiple lines of text and the text wraps inside the boundaries of the text area.

	Text Area Options				This is a text label.			
	C) 🗶 🜒 🕨 🖻	1 🗊 🚯 🔘					
	•	General						
		Name	TEXTAREA					
	•	Coordinates						
		Sizing						
		Triggers		0				
	•	Attributes						
This is a text area.	•	Default						
	+	Accessibility						
		Skip Reading						
		Alternate Text						
	÷	Mobile						
	- 11	Omit						
		Context						
Note			the default for aved in the reg		ea Options fo	or your workspac	ə. This	
	Setti			Jisti y.				
	Follo	w these ste	ps to create a	text area:				
	1. (Duen or crea	ate a section.	then choose Ins	sert. Text Aı	rea. After you po	osition the	
				ptions appear.	,			
					You can also	o paste text into	a text area	
	2. 1	spe the tex	the uncerty mit	o the text area.	1 ou cuir uis	o pusie text into	u text ureu	
The selection box shows you								
the boundaries of the text area.		In cont	rast to text	labels, which	area			
Click outside the text area and			1	text areas ca				
Studio removes the selection								
box.				nes of text an	E E			
			• • • • • • • • • • • •	the boundarie	es of the			
		text are	ea.	1				
	3. U	Ise the Tev	t Area Ontio	ns to further def	ine the text	area		
	J. C				and the text			

Option	Description
General	
Name	(Optional) Enter a name for the text area in this property. Assign a unique name to facilitate future reference to the text area for editing or other purposes. Although a name is not required for a text area, unless the Interactive Editing or Can Span options are enabled, it is recommended a name be provided. In the absence of a name, the horizontal and vertical coordinates of the bar code are used to locate\reference the bar code. These coordinates may not have significance or meaning to users. Note : You must enter a name if you are going to select the Interactive Editing property or if the text area is allowed to span pages.
Style	(Optional) This property only appears if you specified a style file in the BDF file. Select the style you want to use. Studio applies the font ID defined in the style to all of the text in the text area.
Coordinates	
Horizontal	Use this property to set the left edge of where you want the text area to begin.
Vertical	Use this property to set the top edge of where you want the text area to begin.
Width	Use this property to set the width of the text area.
Height	Use this property to set the height of the text area.
Sizing	
Can Grow and Shrink	Check this property to let the system expand the text area as content as entered and reduce the text area as content is removed. Note : If you check the Can Grow and Shrink property, the Can Size property, which is a section property, is automatically turned on. You can manually turn off the Can Size property if you do not want to allow the size of the section to change as the text area grows. The Can Size property is only available on custom sized sections.
Can Span Pages	Check this property to let the system span the text area across pages. Note : A text area that is allowed to span pages must have a name.
Must fit on page	Use this property to prevent the text area from splitting or overlaying the section or page boundary. If the text area grows to the section or page boundary, the system moves the entire text area to the next page.
Suppress variable lines	This property causes paragraphs containing field references that are blank during print operations to be suppressed. During print, the field references are evaluated and removed if blank. If all of the variable references are blank, then the entire paragraph is suppressed, including any static text that is not a field reference. Although this operation will format the text area, other properties related to grow, span, and fit are not honored during print and will not cause re-pagination to occur. This is most useful when the entire paragraph is comprised of single-line field references, such as when defining a postal address block of fields. In addition, you should not use this property on a large, or multipage text area as it could affect performance and presentation. For best results, limit the use of this property to small text areas which contain only fields.

Option	Description
Adjust top line	Use this property to make the top line of the text area use the same calculation for vertical coordinate placement that text labels do, when using the same font.
	Normally, the top line of the text area is positioned based on the font's height instead of its baseline value. This is done so text areas that are stacked do not overlap.
	Text labels are positioned based on the font's baseline value. This could cause a problem when trying to (horizontally) align a text label with the top line of the text area. This can occur if you have converted text labels into a text area.
Triggers	Click here to open the DAL Trigger Options window and define a trigger for this text area.
Attributes	
Hyphenation	Use this property to hyphenate words at the end of a line when applicable. Choose None if you do not want Studio to hyphenate words, otherwise select the language you want to determine the hyphenation rules, such as US English. The default is None.
	This property sets hyphenation when you create the text area and is saved to the registry. You can use the Hyphenation property in the Paragraph properties to set hyphenation for each paragraph you create.
Pre-printed	Check this property if you do not want the text area to be printed.
	Use this property to tell the system that you want to see the content when working with the form, but the content of this text area should not print because pre-printed paper is instead used for final document output.
Interactive editing	Check this property to indicate the text area content should be treated as a multiline text field, which allows editing when the document is processed. The resulting field will be named using the text area name. If you select this property, at run time the system converts the text area into a multiline
	text field with the original text area data as editable content of the multiline text field. The default tab order of the multiline text field is set by its placement on the section.
	Note : To further control tab sequencing, you can add a dummy field to the section which has the same name as the text area with interactive editing enabled. Mark this dummy field as Hidden in the Field Options. At run time, when the text area is converted into a multiline text field, it will acquire the tab sequence specified for the dummy hidden field.
Required	This property only appears if you selected the Interactive Editing property.
	Checking this property means the text area cannot be empty. If there is already content in the text area, the end user is not required to enter any additional content.
Default	
Font ID	When the text area is empty, set the font ID you want to use for text that is typed. To change the font for text already in the text area, highlight the text and choose the Format, Font option.
Tab stops	Use this property to set the default tab position.
Accessibility	Property attributes associated
Skip Reading	If checked on, the object is excluded from being read by assistive technology.
Alternate Text	Enter the alternate text to use.
Mobile	
Omit	Select this check box, if you do not want the object to be included in the Mobile Output.

Context Select this option to pick from a list of available tags or edit/add a new one on the particular object.	Option	Description
	Context	

Note This option requires Documaker Mobile. If you have not purchased and installed Documaker Mobile the required mobile options will be disabled. To purchase Documaker Mobile, visit *My Oracle Support* website or contact your Oracle Sales representative.

See *Formatting Paragraphs* on page 474 for more information on Paragraph properties like tab stops, border properties, shade properties, bullet properties

Using Interactive Editing

To allow interactive editing in a text area, you only have to check the Interactive Editing property and, optionally, the Required property. This lets you edit the predefined content in a text area in Studio's Data Entry Check in the Section or Form managers, Documaker Desktop, Documaker Interactive, or the WIP Edit plug-in.

When you turn on this property, keep in mind:

- Because a text area selected for interactive editing is treated as a multi-line text field, it must have a defined name.
- Text areas marked as interactive edit can contain pre-defined text that can be marked as *No User Edit* using the Paragraph properties. This lets the Documaker Interactive run time user add or edit content around the *No User Edit* portion of text but restricts modifications to the text flagged as *No User Edit*.
- You can have multiple interactive editing text areas in a single section. Each text area set for interactive editing becomes a separate field and allows independent editing just like any other pre-defined multiline field on the section. Content below a growing text area or multiline text field is *pushed* down the page. If a pushed object encounters the margin or page boundary the system moves that object, in its entirety, to the next page.
- When the text area grows, it will push anything under its width. The pushing is not cumulative. If there are objects outside of the text area width, they do not move. That is as designed. Otherwise, you could not have a text area and other objects beside each other without one interfering with the other.
- This table compares the properties available for text areas to those available for multiline text fields.

Option	Text Area	Multiline Text Field	Comments
Name	Yes	Yes	If you give your text area the same name as a field defined on the section, these objects become associated (merged) during processing. This is a way to exert additional control over the resulting field since there are field properties the system does not let you specify on a text area with the Interactive editing property turned on.
Style	Yes	Yes	
Prompt	na	Yes	
Font ID	Yes	Yes	
Туре	na	Yes	
Format	na	Yes	
Task Comments	na	Yes	
Hyphenation	Yes	Yes	
Pre-printed	Yes	na	The system ignores this property if you enable interactive editing.
Tab Stops	Yes	Yes	
Scope	na	Yes	
Interactive Edit	Yes	na	
Required	Yes	Yes	
Can Grow and Shrink	Yes	Yes	Tells the system to expand or contract text areas as needed.
Can Span Pages	Yes	Yes	
Must fit on page	Yes	Yes	
Adjust top line	Yes	Yes	
Suppress variable lines	Yes	na	The system ignores this property if you enable interactive editing.
Never Print	na	Yes	
Underline	na	Yes	Underline is not available in the Text Area Options, but you can underline text using the Format, Underline option.
Strikeout	na	Yes	Strikeout is not available in the Text Area Options, but you can strike out text using the Format, Strike-out option.
Locale	na	Yes	Implied by the text/font information within the pre-defined text.

Option	Text Area	Multiline Text Field	Comments
Field Color	na	Yes	Only the default field color or the style field color is supported.
Rule attributes	na	Yes	Includes the rule name, offset, source name, offset, and file.
No user edit	na	Yes	Not supported for Interactive Edit text areas, but you can mark paragraphs of pre-defined text within the Interactive Edit text area as <i>No</i> <i>User Edit.</i>
Spell Check	na	Yes	You can check spelling while in text editor mode for text areas that have interactive editing turned on. You can also check spelling in Studio's Data Entry Check when in multiline editor mode on the text area\field.
Pre-Edit attributes	na	Yes	
Navigation	na	Yes	
Post edit	na	Yes	
Look-up	na	Yes	
Calculation	na	Yes	
Link	na	Yes	

Columns can be set and used in a text area marked for Interactive Editing. Columns are set from the text editor mode in Studio's Data Entry Check in Section or Form Manager, Documaker Desktop or Documaker Interactive with WipEdit plug-in.

To define a column, right click, then select Format, Column from the right click menu. The Columns dialog displays as shown in the following figure:

Б С	olumns					×
	Columns:	Availa	able Width:	14784 FA	Ps -	ОК
□ A	uto Level Columns					Cancel
	Width	Gap	Line	Weight	Pattern	Color
1	14784 FAPs					

Modify the settings as needed, then click OK

The text area now reflects the column settings. In this example as shown below, 2 columns have been defined; data has been entered in both columns

Sunday	January
Monday	February
Tuesday	March
Wednesday	April
Thursday	May
Friday	June
Saturday	July

Highlighting Fields

A new ability has been added to Entry that highlights fields that are modified

by users.

<Control>

TrackFieldEdits = Yes (with a default of No)

This option causes PDFs generated by the system to highlight those fields which that were manually edited by the user.

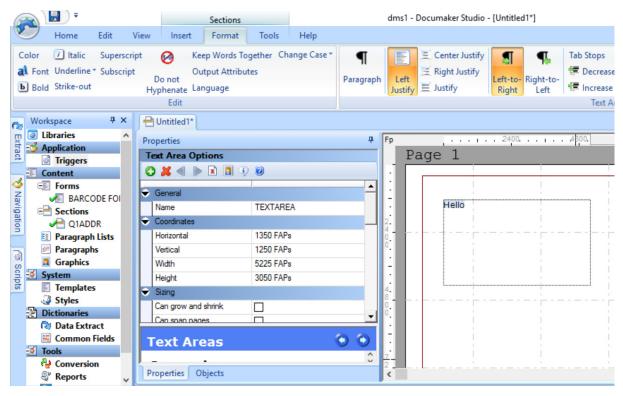
This option has several considerations.

- The same setting, TrackFieldEdits must also be set to Yes in the <Control> group. Note this option allows changes to display to the user while editing in Documaker Desktop, WIP Edit or Data Entry Check within Studio.
- If the users empties a field of content, nothing will be highlighted.
- Fields that display something other than text will not be highlight, even if the underlying value is changed e.g. bar code fields.
- Text areas with embedded fields will highlight the only the field content as changed.
- Multiline text fields will highlight in entirety if edited or assigned content via paragraph selection. Note that fields embedded within the content will show independent highlights if you don't edit the multiline text content directly.
- Charts or other objects that might use hidden fields to gather data will not highlight even if the fields that are referenced in the object change.

Output Attributes

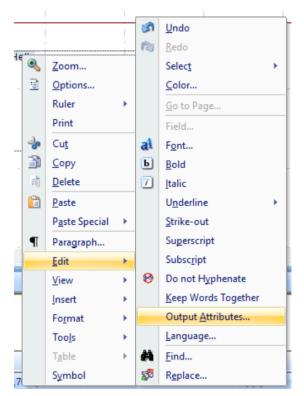
You can specify hyperlink, accessibility, and mobile attributes within the Text Area using Output Attributes option.

Select the text within the text area.



Go to Format tab and Click the Output Attributes option under the Edit option

Or right-click on the highlighted text within the Text area and Click the Output Attributes option under Edit



Output Attributes dialog appears.

7	Output Attributes			\times
S	elected objects			
q	0			
	Link			
	Link Type Accessibility	None		
Ŷ	Accessibility			
	Skip Reading			
	Alternate Text			
\$	Mobile			
	Omit			
	Context			

The Output Attributes can specify hyperlink, accessibility, and mobile attributes

Link

Link Type	Choose from either none, external, internal, or target hyperlinks. If you chose an option other than none, additional properties appear.
Link Border	Select the type of border (if any) to draw around the hyperlink (affects PDF output only). You can choose from Dash, Solid, Underline, or None.
HTML Reference	Enter the address of the web page. Here is an example: http://www.oracle.com
Parameters	Use this field when producing HTML output to specify additional parameters to an HREF type link, such as a target frame or mouseover behavior. This example causes a web page to open in a new browser window: target="new"

Note Output Attributes can also be set on the fields and graphics within a text area.

The Output Attributes menu and ribbon are enabled and the dialog populated with the Output Attributes from the first (i.e. leftmost) highlighted object as long as it is a field, graphic or text object.

The Accessibility and Mobile options are limited to the selected text area through Output Attributes.

Accessibility

Skip Reading	When Skip Reading is checked, the object is excluded from being read by assistive technology.
Alternate Text	Enter the alternate text to use.

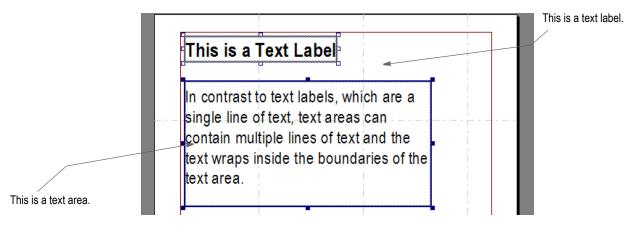
Mobile

Omit	Select this check box, if you do not want the object to be included in the Mobile Output.
Context	Select this option to pick from a list of available tags or edit/add a new one on the particular object.

Note This option requires Documaker Mobile. If you have not purchased and installed Documaker Mobile the required mobile options will be disabled. To purchase Documaker Mobile, visit My Oracle Support website or contact your Oracle Sales representative.

CREATING TEXT LABELS

A text label is a short block of text placed in a section. Create a text label when you want to write and place a minimal amount of text such as field labels or headings. A text label can contain up to one line of text. In contrast, text areas can contain multiple lines of text and the text wraps inside the boundaries of the text area.



Follow these steps to create a text label:

- 1. Open a section, then choose Insert, Text Label. After you position your text label the Text Label Options appear.
- 2. You can type the text for a text label directly into the label or you can type it into the Text property. If you are editing a text label, double-click the label and then press Esc to exit text label edit mode when you finish.

An active text label remains active when you zoom or rotate the label and will appear inside a border when you are editing it. Once you press Esc, Studio removes the border.

This is a text label.

If zooming or rotating the text label makes it difficult to see the text, you can make entries or changes using the Text property in the Properties window. Use these properties to customize the location and appearance of the text label.

Properties 4			
	Text Label Options		
			
➡ General			
Name			
Text			
Font ID	24010 Albany AMT 10 PT		
Coordinates			
Attributes			
▶ Link			
Skip Reading			
Alternate Text			
✓ Mobile			
Omit			
Context			

Property Description

General	
Name	(Optional) Enter a name for the text label. Assign a unique name to facilitate reference to the text label for editing or other purposes. Although a name is not required for a text label, it is recommended a name be provided. In the absence of a name, the first few characters of the text label are used to locate\reference the bar code. When you have several text labels that start with the same text, the user may have to look through multiple labels in the object list to find the desired one.
Text	Enter the text for the label. If you do not enter text, the system displays Blank Text Label in the image to show the location of the text label. The special characters that you use depend on the available code page.
Style	This field only appears if you specified a style file in the BDF file. Select the style you want to use.
Font ID	Select the font you want to use and click Ok.
Coordinates	
Horizontal	Set the left edge of where you want the label to begin.
Vertical	Set the top edge of where you want the label to begin.
Center	Click Center to move the label to the left/right center of the section. This does not affect the vertical placement of the label.
Width	Specify the width of the text label.
Height	Specify the height of the text label.
Adjustment	Choose from None, Superscript, or Subscript.
Attributes	

Property	Description
Underline	Choose from None, Double line, Single line, Double line (words only) or Single line (words only).
Strikeout	Check this box if you want the text stricken.
Pre-printed	Check this box to tell the system not to print this object when you print the section. Checking this box can be useful during forms creation or when test printing your forms. You may be using letterhead or special paper that has the company name or logo already embossed on the paper. Inserting a text label or graphic on your form in the same location as the company name or logo helps to make sure the space is not inadvertently written over by other objects. These objects would reserve that space on the form.
Rotation	This lets you rotate the text label. You can choose from zero (0), 90, 180, or 270 degree rotation.
Color	Click the ellipsis button to select the color for the label text.
Link	
Link Type	Choose from either none, external, internal, or target hyperlinks. If you chose an option other than none, additional properties appear.
Link Border	Select the type of border (if any) to draw around the hyperlink (affects PDF output only). You can choose from Dash, Solid, Underline, or None.
HTML Reference	Enter the address of the web page. Here is an example: http://www.oracle.com
Parameters	Use this field when producing HTML output to specify additional parameters to an HREF type link, such as a target frame or mouseover behavior. This example causes a web page to open in a new browser window: target="new"
Mobile	
Omit	Select this check box, if you do not want the object to be included in the Mobile Output.
Context	Select this option to pick from a list of available tags or edit/add a new one on the particular object.

Note This option requires Documaker Mobile. If you have not purchased and installed Documaker Mobile the required mobile options will be disabled. To purchase Documaker Mobile, visit My Oracle Support website or contact your Oracle Sales representative.

INSERTING A FIELD

Fields are the placeholders for data that you put on a section. They can be found placed independently on a section, or within other objects, such as charts or text areas.

The following table illustrates whether a Field property is used in Documaker Server processing, or in Documaker Entry editing, or both.

Field Property	Server	Entry
General	Х	Х
Coordinates	Х	Х
Attributes	Х	Х
Documerge		
Rule	Х	
Entry		Х
Pre and Post Edit		Х
Navigation		Х
Lookup	Х	Х
Calculation		Х
Links	Х	Х
Paragraph	Х	Х
Paragraph Selection	Х	Х
Mobile		

General field options

The General tab records basic information about the variable field such as field name, dimensions, and position.

Name	(Required) Enter the name of the field. The default name is FIELD. As you add additional fields to the section, #nnn is appended to the default field name, for example FIELD #002, FIELD #003, etc.
Style	Set the style to be used with the field. The Style option is displayed when a Style is defined in the Application Definition file.

Represent with	This option is available when the field is referenced within a text area or table. Set the character(s) to represent the field in the text area. This will not affect the fields overall length or format. The maximum number of character for the Represents with value is 100 and does not change the actual length of field data allowed in the field definition. As a default, the value is only shown if you have the View / Options set to "Template". When Represent with is empty, the system uses the field name.
Prompt	Set the prompt that appears in Documaker Desktop and Wip Edit plugin.
Font ID	Set the font ID to use.
Туре	Select the field type.

The following table lists and describes all of the field types. If you use the AnyToAny rule, all field types are applicable in a server environment. If you do not use the AnyToAny rule, the only field types applicable in a server environment are Alphanumeric, Bar Code, and Multiline Text. All field types are applicable in an entry environment, regardless of whether you use the AnyToAny rule.

Note The AnyToAny rule supports Unicode. For more information, see the Rules Reference Manual.

Field Type	Description
(Y)es or (N)o	Accept Y(Yes) or N(No)
Alphabetic	Accept only alphabetic letters.
Alphanumeric	Accept a combination of alphabetic letters and numbers.
Bar Code	Display entered data in corresponding bar code format — also uses Scale Factor.
Custom	Accept data based on field type—field type is customized by a systems integrator
Date Format	Accept dates in the format indicated—depending upon format selected, may use Separator field—also uses Year Size and Letter case, optionally.
Int'l Alphabetic	Accept only alphabetic characters from an international keyboard
Int'l Alphanumeric	Accept both uppercase characters and numbers from an international keyboard.
Int'l Uppercase Alphabetic	Accept only uppercase alphabetic characters (defaults text to all uppercase) from an international keyboard.
Int'I Uppercase Alphanumeric	Accept both uppercase characters and numbers (defaults text to all uppercase) from an international keyboard.
Multiline Text	Accept multiple lines of text to which word processing functions may be applied—also uses Paragraph formatting (Hyphenation, Language, and Tab stops) as well as Can Grow and Shrink, Can Span Pages, Must Fit on Page, and Adjust Top Line.

Field Type	Description
Numeric	Accept only numbers.
Numeric/Text	Accepts numbers or text. If the field value is numeric, the numeric format is applied, otherwise the text is not changed. For example, with a format of \$ZZ9.99, the value 10 would appear as \$10.00, but a text value of N/A would appear unchanged by the format.
Table Only	Accept only table selections.
Time Format	Accept time in the format indicated—also uses Separator.
Uppercase Alphabetic	Accept only capital letters (defaults text to all upper case).
Uppercase Alphanumeric	Accept a combination of alphabetic letters and numbers (defaults text to all upper case).
X or space	Accept an X or blank space.

Paragraph options

If you mark a field as a multi-line text type, then the Paragraph and Paragraph Selection options appear in the field properties pane.

Ŷ	Paragraph	
	Hyphenation	None
	Tab stops	0 FAPs
	Columns	2

Use these options to customize the behavior of the Paragraph feature in an interactive entry environment.

Option	Description
Hyphenation	Select this option to individually set hyphenation for each paragraph you create. Words are hyphenated at the end of a line when possible if this option is selected.
	Choose None if you do not want to hyphenate words, otherwise select the language you want to determine the hyphenation rules, such as US English. The default is None.
Tab stops	Select this option to set the default tab amount in FAPs.
Columns	Select this option to specify the number of columns in the paragraph to be imported. As this feature is active, Format/Columns is disabled for a Paragraph in a Paragraph List just as it is disabled for a Paragraph outside of a Paragraph List

The Paragraph Selection options are most often used in an interactive entry environment. This feature uses the resources created in the Paragraphs and Paragraph Lists managers to allow for paragraph selection at run time.

Paragraph Selection	
Paragraph List	
	Edit Paragraph List
No Tab	
Select One	
Single Pass	
Keep Selection	
No Editing	
Only Empty	
Zero Selection	
Unique Fields	
Manual Popup	
Allow	Append/Replace
List Presentation	Name then Description

Use these options to customize the behavior of the Paragraph Selection feature in an interactive entry environment. To use the Paragraph Selection feature, click in the box next to Paragraph Selection. Then enter or browse for the appropriate paragraph list name in the Paragraph List field. The following table lists the Paragraph Selection options:

Option	Description
No Tab	Select this option to prevent an entry environment from automatically advancing to the next field after selecting a paragraph.
Select One	Select this option to cause the Paragraph Selection window in an interactive entry environment to allow only one of the Available Paragraphs to be selected in the Selected Paragraphs area. Depending on your intent, you may also want to select the Hide Append option to prevent users from reentering the field, selecting a second paragraph, and appending it to the first.
Single Pass	Select this option to prevent the user from reentering the field and making any changes after selecting a paragraph.
Keep Selection	Select this option to cause the Paragraph Selection window to retain the previously selected paragraphs in the Selected Paragraphs area.
No Editing	Select this option to prevent the user from manually editing the Field in the Text Editor beyond paragraph selection. Changes to the Field are allowed only through the Paragraph Selection window.
Only Empty	Select this option to cause the system to present the paragraph selection pop-up only if the field is empty.
Zero Selection	Select this option to enable the Paragraph Selection window's Replace button to work even when the Selected Paragraphs area is left blank, which clears the field
Unique Fields	Select this option to cause an embedded field within this field to be assigned a unique name. This prevents matching or duplicate field names on a section. A rolling number is assigned to the end of the embedded field name.
Manual Popup	Select this option to disable the Paragraph Selection window from automatically opening whenever the field is selected and users must then use the F4 key to open it.
Hide Append	Select this option to hide the Paragraph Selection window's Append button.
Hide Replace	Select this option to hide the Paragraph Selection window's Replace button.

Option	Description
List Presentation	Select how the Paragraph Selection window displays Paragraphs within an interactive entry environment. Choices include Description Only, Description then Name, Name only, or Name then Description. Description and Name are specified for each paragraph in the Paragraph List manager.

Note In the Attributes area for this field, you must have the Can Grow and Shrink property selected. If it is possible for the paragraphs you select to span to another page, you must also select the Can Span Pages property.

See *Formatting Paragraphs* on page 474 for more information on Paragraph properties like tab stops, border properties, shade properties, bullet properties

Coordinates

Coordinate options include:

Option	Description
Horizontal	Upper-left X coordinate
Vertical	Upper-left Y coordinate
Width	System-calculated and based on font/length
Height	System-calculated and based on font
Adjustment	None, subscript, or superscript

۲	Attributes	
	Scope	Section
	Send Copy To	
	Required	
	Hidden	
	Never Print	
	Redact Tag	
	Underline	None
	Strikeout	
	Locale	Neutral
	Rotation	0 degrees (Normal)
	Field Color	default

Attributes

The following table lists the Attribute options for a field.

Attribute	Description
Scope	The scope controls the distribution or propagation of entered data to all fields with identical names. The three types of scope are applicable only in an entry environment. In a server environment, always use Section as the scope, with one exception—if a field is overflowing in a server environment, use Form as the scope. Section—Data written only to the field within a single section Form—Data automatically written to all identically named fields throughout all sections within a form Global—Data automatically written to all identically named fields throughout all sections and forms within a form set
Send copy to	Data defined in the BDF file for the selected recipient propagates this field (not valid for multiline text fields).
Required	When selected, the entry operator must enter data in this field. This option is only applicable in entry environments such as Oracle Documaker Studios' Data Entry Check, Oracle Documaker Desktop and Oracle Documaker Interactive.
Can Grow and Shrink	Only used only with multiline text fields, where the field expands as text is entered.
Can Span Pages	Only used with multiline text fields, where the field can span to subsequent pages, if necessary, to accommodate amount of data entered.
Must fit on page	Only used with multiline text fields, to make sure the field fits on the page.
Adjust top line	Only used with multiline text fields, to adjust the placement of text areas and text labels, converted into text areas, so the same calculation is used for the Y coordinate (how far down the page) placement of text.
Hidden	Do not display this field during data entry but user is prompted to enter data into this field—data entered propagates to other hidden fields with identical field names (not applicable to multiline text fields).
Never Print	The field is selected when you want to specify that this field will not print.
Redact Tag	Select this option to assign redact tags to the object via the redact tag pick list or by keying redact tag(s). Separate multiple redact tags with a comma.
Underline	None (default). Other selections include: Double line, Single line, Word only – double, and Word only – single.
Strikeout	The field is selected when you want to use the strikeout feature at output time.
Locale	Neutral (default). Select locale for formatting of dates, numeric data, and time.
Rotation	0 deg.: Normal (default) Other choices in the drop-down list are: 90 deg.: Downward, 180 deg.: Upside down, and 270 deg.: Upward (not applicable to multiline text fields)
Field Color	Red (default) This is the color of the field within the Sections manager. The global default value for this field is maintained in the Definition manager. If you want to change the color for this particular field, or if you want to print the field in color, use the ellipsis button to access the screen where these choices can be made.

Documerge field options

Documerge options are completed when an implementation uses Documerge to create resources for use with the Documerge print engine.

These options, such as Replacement Character and Generate Yes or No, are used in the Documerge system. Use these features for fields on sections that are built in Studio. After forms are built using these sections in Documerge, they must be normalized for use in the Documerge Electronic Document Library (EDL).

Documerge		
Rep	olacement Character	@
Mul	tidata	N
Line	e End Character	[
Del	ete	N
Ma	ndatory	
Ger	nerate	
Nur	mber of Columns	23
Nur	mber of Rows	1

Field-level rules for Documaker Server

Field-level rules are used in Documaker Server processing only. They work with data elements in your extract file, and are used to format variable data as you would like it to appear on a section at print time.

Rule	XDD
Destination Offset	0
Source Name	INSUREDZIP/#1275144297
Source Offset	0
File	0
Length	0
Record	0
Required	Default
Overflow Multiplier	0
Overflow	Default
Mask	
Data	
Same Name	Apply

Field rule properties for Documaker Server processing

The field-level rules are listed in the Rules Reference for Documaker.

- For the Source name enter the name of the field in the extract file (XDD) that you are mapping to the field on the section. This must be used in combination with the XDD or XDB rule.
- For the File name, use this with the TblLkup rule.
- For the Required field, choose from these options:

Option	Description
Not	(Default) Data propagating to the field is not required at processing time. Missing data will not result in an error message.
Host	Data is required from the host (source file) during batch run. Missing data results in an error message. Documents with missing data are kicked to the error batch.
Default	The value of the same field in the Extract Data Dictionary (XDD) takes precedence.
Operator	A manual entry in Work-in-Process (WIP) module is required. Missing data results in a warning message. The document is kicked to WIP.
Either	A manual entry in Work-in-Process (WIP) module is required. The system first tries to fill in the field with data from the extract file If the data is missing, the system kicks the document to WIP and issues a warning message.

- The Mask and Data fields are rule dependent.
- Same Name changes the name on the field to match the name in the source name field on the Rule option.

ENTRY

۲	Entry	
	No User Edit	
	Spell Check	
•	Pre-edit	
	Module	
	Procedure	
	Data	
•	Navigation	
	If blank go to	
	If not blank go to	
	Begin section	
	Section description	
•	Post-edit	
	Module	
	Procedure	
	Data	
•	Lookup	
	File	
	ID	
	Returns	Nothing
•	Calculation	
	Execute After	All Fields
	Script	

No User Edit

When checked, the user is prevented from modifying or entering data into the field either in Documaker Studio Data Entry Check, Documaker Desktop or Wip Edit plug-in.

Spell Check

When checked, the system performs a spell check against the data entered in the field when the user tabs out of the field. Spell check option does not work on protected fields. Only the first occurrence of a Form or Global scope field will be checked for spelling. Each subsequent occurrence is ignored.

Pre-Edit

By assigning edit functions to a field, you can have the system execute specific functions before (pre-edit) or after (post-edit) an entry operator enters data into the field, exits the field, or both.

When you assign a pre-edit function to a variable field, the system executes that function before the entry operator enters information in the field.

Module

Select the applicable module in the Module field. The module is the name of the DLL which contains the pre-edit procedure.

Select	То
CSTW32	This module has 2 applications: - Fills a blank variable field with the specified character. - Opens Microsoft Word for data entry when in Documaker Desktop.
DALW32	Have the system execute a DAL script.
TERSW32	Use paragraph assembly. Paragraph assembly is available only for multi-line text variable fields.

Procedure

Select the pre-edit procedure associated with the selected module.

Select	То
CSTFillField	Fill a blank variable field with a character you specify. See the topic CSTFillField for additional information.
CSTRunWord	Use this procedure to have the entry system open Microsoft Word for data entry in the variable field See the topic CSTRunWord , for additional information.
DALExecMsgScript	Have the system execute a DAL script.
TerSubstitute	Use paragraph assembly. Paragraph assembly is available only for multi-line text variable fields. See <i>Additional Paragraph Assembly (TerSub) Options</i> for additional information.

Data

Enter any data required to run the procedure in the Data field

TerSubstitute Data Options

Option	Name	Description
V	View Options	Controls which columns appear on the Paragraph Selection. You can select from these display options: To view: Enter this parameter: Key and description V=K+D Key V=K Description V=D Description and Key V=D+K
ZS	Zero Selection	Lets you click the Replace button even if no paragraphs have been selected. Clicking the Replace Existing Paragraphs button without making any selections blanks any existing text in the multi-line text variable field and leaves the field empty. Clicking the Append to Existing Paragraphs button without making a selection simply closes the Paragraph Selection window and leaves any existing text unaltered.
SO	Select Only One	Limits paragraph selection to just one paragraph.
OE	Only Empty	Only displays the Paragraph Selection window if the field is empty. Once the system detects that the multi- line text variable field contains data, it no longer displays the Paragraph Selection window.
PF	Protect Field	Prevents the user from changing the paragraphs or executing TerSub again after the initial selection
ST	Smart Tab	Tells the system to go to the next field in the navigation sequence after the Paragraph Selection window is completed.
NE	No Editing	Prevents the user from editing the field. The user can make a selection on the Paragraph Selection dialog but cannot make any edits to the field.
HA	Hide Append	Hides the Append button on the Paragraph Selection window.
HR	Hide Replace	Hides the Replace button on the Paragraph Selection window.

Option	Name	Description
К	Keep Selections	The Paragraph Selection window retains the previously selected paragraphs in the Selected Paragraphs area.
R	Special Recipient	Builds the list of paragraphs based on the name of a recipient.

Convert to Paragraph Assembly

Fields defined as Multiline text that have the old style pre-edit procedure defined as TerSubstitute can be upgraded to use the Paragraph Assembly feature.

When you click on a field using the previous definition method, a button will appear in the Pre-Edit section that offers to convert to Paragraph Assembly.

The conversion will first look in the library to verify whether the Paragraph Selection List (PSL) file name already exists. If it does not exist, then a new PSL will be created. Each item from the table will be assigned as a corresponding paragraph section using the description from the table.

For each paragraph section named, the library will be queried to see if a *.PAR file already exists. If a matching PAR name does not exist, the section (FAP) that would have been associated with the table entry is loaded and embedded into the PSL content.

Independent PAR files are not created during the conversion. If you want library resources for your PAR files, you will have to perform that step manually using the "unembed" option from within the PSL manager.

When the PSL is completed it will be checked into the library and the name assigned into the Paragraph Assembly setting in the fields properties.

The old TERSUB parameters specified in the Pre-Edit Data property will be parsed; the appropriate options in the Paragraph Assembly section will be checked or assigned.

As a final step, the Pre-Edit values previously declared for the Tersub will be cleared from the field properties. The associated Lookup table file and ID properties are also cleared.

The field operates just as it had before this conversion. The advantage of using the newer Paragraph assembly will be in maintaining the PSL as a single library resource rather than an entry table and multiple independent section files.

Navigation

Navigation is used to control the order in which data is entered in variable fields. You can vary a navigation sequence based on whether a variable field contains data (If not blank go to) or whether the field contains no data (If blank go to).

From the Navigation tab you also designate a field as the beginning field in an image section. Create different image sections if you want to group logical units of information. Sections provide the user a quick way to move around in the image during data entry. For example, in a homeowner's policy you might create a section for the home description and a separate section for the policy limits.

If blank go to

Select the field the system should move to if this field is left blank. If a user leaves the variable field blank, the system does not default to the next sequential field. You must select a field.

If not blank go to

Select the field the system should move to if a user enters data into this variable field. If you leave the If Not Blank Go To field blank, the system defaults to the next sequential field.

Begin Section

Check if you want the field to begin a section.

Section Description

Enter the section description. Section descriptions are displayed during data entry.

Post-edit

By assigning edit functions to a variable field, you can have the system execute specific functions before (pre-edit) or after (post-edit) an entry operator enters data into the field, exits the field, or both

The system applies post-edit functions after the entry operator finishes entering data in the field. For example, you might assign a post-edit procedure that tells the system to create a cover letter using the name and address entered into the variable field.

Post-Edit Modules

The module is the name of the DLL where the post-edit procedure resides.

Field	Description
CSTW32	Choose CSTW32 to use CSTFillField or CSTParseJustify functions
DALW32	Choose DALW32 to use DALExecMsgScript function.
TERSW32	Choose TERSW32 to use the Paragraph Assembly feature.

Post-Edit Procedures

Select the procedure name in the Procedure field.

Field	Description
CSTFillField	Fill a blank variable field with a character you specify.
CSTParseJustify	Control the justification of variable fields in the entry system.

Field	Description
DALExecMsgScript	Have the system run a DAL script.
TerPropagate	Propagate data into multiline text field using Paragraph Assembly feature also known as TerSub or TerSubstitute. Paragraph Assembly is only available for multiline text fields.

Post-Edit Data

Enter any data required to run the procedure in the Data field.

Separate the DAL script statements with semicolons (;).

If the text of the script will not fit in the field, create the script as an external text file and then use *CALL* or *CHAIN* to tell the system to run your script. For more information, see the DAL Reference.

CSTFillField

Use the CSTFillField procedure to fill a blank variable field with the specified character. This procedure works in either or both pre-edit and post-edit modes. To use this procedure, make the following entries on the Edits tab of the field's Properties window:

Where *Num* is equal to the number of instances of the fill character and *Char* is equal to the fill character. If you omit *Num*, the system uses the full field length. If you omit *Char*, the system uses an underline character.

As a pre-edit procedure, this function checks to see if the entry field matches the data specification from the post-edit. If it does, the system clears the field so the user can begin a clean entry. The entry length is then set to the value in the pre-edit data field of the Edits tab. If the fill data is longer than the field length, the pre-edit data must contain the field length to reset it from the longer fill data. For example, if the field length is 10 and you want 20 Xs, the data would be: Pre-edit data: 10 Post-edit data: 20;X.

When used as a post-edit procedure, this procedure checks the entry field to see if it is empty. If it is, the system fills the field with *Num* instances of the *Char*. For example, 20;_ tells the system to insert 20 underline characters in the field and 10;X tells it to insert 10 Xs. If the fill data is longer than the field length, the post-edit data must contain the field length (*Num*) to increase the variable field's length.

CSTRunWord

Use this procedure to have the entry system open Microsoft Word for data entry in the field. The field cannot be a multi-line text or a bar code field. You may want mark this field as hidden since it will not contain any information. If the field remains visible, keep in mind that its position on the page may move relative to the document information that is imported back from Word and that the text contained in the field is not imported into Word.

Images declared on the form that are not headers or footers and not the image which contains the Pre-Edit field, are lost the first time Word is used.

In this Field	Enter
Module	CSTW32
Function	CSTRunWord

The form which contains the CSTRunWord field does not have to be blank. You can have as many other fields on the form as may be needed. These fields would typically have a global scope fields and are filled in from elsewhere in the form set. The data in these fields is imported into Word when the user begins editing; however, the field definitions are lost when the user imports the changed document back into the form set. This means you can pass information already entered on the form set, like name, address, city, account numbers, and descriptions, to Word and then work with this information in Word.

Just remember that when the user returns from Word, all of the objects on the original form (not just the section) will be gone *except* for the field that starts Word and any header or footer Images declared on the form.

The data which was contained in these removed objects before Word started still appears unless the user deleted that data while in Word. After the user closes Word and imports the document back into the form set, those objects will no longer exist. So, the only way to change that data is by editing it in Word again.

CSTParseJustify

This function's effects can be seen in either Data Entry Check or Documaker Desktop system.

CSTParseJustify is set up in the Edits tab of the Properties window. The module is CSTW32, the procedure is CSTParseJustify. The data can contain up to three parameters. The data is comma delimited, meaning that you will need to put a comma between each parameter should you specify more than one parameter.

Parameter	Description
Justification mode	The first parameter specifies the Justification mode. Justification mode tells the system how you want to align or justify the data in the variable field. Valid settings for the Justification mode are: L = left, R = right, and C = center. To align a column of numbers, use R (right).
X coordinate	This parameter positions the data. Enter this parameter in FAP units (2400 FAP units equal one inch). If no X coordinate is given, the system uses a default value of 0 (zero). The default assumes the left field coordinate (of the variable field itself) if your justification mode is left; the right field coordinate (of the variable field) is used if the justification mode is right and the midpoint of left and right (of the variable field) is used for a justification mode of center.
Justification character	This parameter is the justification character. This lets you center data on a specified character such as a period (.). This might be useful when you want to line up a series of numbers.

The effect of the CSTParseJustify feature is most noticeable at print time. To see the effects in data entry check or in the Entry system, turn on the Options, Fixed Edits option. The system moves the position of the variable field relative to its original position, length, and the data information you gave it.

This feature does not work for bar code and multi-line text fields.

CSTParseJustify does not work on fields that rely upon DAL to return a value. You must make DAL justify your field using DAL functions.

Note PCL print will show the effects of CSTParseJustify, GDI will not show the effect.

TerPropagate

Select TerPropagate to propagate data between multi-line text fields with the same name. This data can be entered either manually or by using the Paragraph Assembly feature, also known as *TerSub*. To propagate data between multi-line text fields, those fields must have a scope of global. Additionally, the first occurrence of the multi-line text variable field must have a Post-Edit module of TERSW32 and Post-Edit procedure of TerPropagate.

The TerPropagate procedure does not support propagation between multi-line fields (with the same name) on the same form. This includes having the same named multi-line field on different pages of the same form. The reason is that multi-line fields on the same form with the same name are considered *associated* with each other—one is a continuation of the other. Therefore, propagation within the same form in this manner would cause a recursive loop.

This function provides a type of mail merge capability. When you use it on an image, the function scans each text area on the image and substitutes field data into the text. This is not the same as embedded fields, because the field data must exist prior to execution. Using the TerSubImage function, the system looks through the text for field tokens in the form of *\FIELDNAME* where the name between the slashes is a field name in your form set. When it finds this, the field's data is inserted directly into the text, not as a reference. If the field changes values later, the text area is not updated.

Additional Paragraph Assembly (TerSub) Options

Paragraph Assembly (TerSub) is a Pre- and Post-edit function which selects and assembles pre-written, standardized paragraphs as a time-saving feature for end users.

There are two Paragraph Assembly methods.

In the first method, Paragraph List and Paragraph files are used. Paragraphs containing the desired text, fields, graphics and boxes are created in Paragraph Manager. These paragraphs are added to a Paragraph List file created in Paragraph List Manager. A multiline text field is added to the section. In the Field Options, check the Paragraph Selection option on. Assign the applicable Paragraph List file in the Paragraph List field. Select the applicable Paragraph Selection options. When a user tabs or clicks in the multiline text field during entry, the Paragraph Selection dialog is displayed. This dialog lists all o the paragraphs defined in the Paragraph List file assigned to the multiline text field. The multiline text field is populated with the content of the paragraphs selected on the Paragraph Selection dialog.

In the second (old style) method, entry table and sections with text areas are used instead of Paragraph Lists and Paragraph files. A text area containing the desired text, fields, graphics and boxes is added to a section in Section Manager. Only the first text area is used in the Paragraph Assembly process. Additional text areas in the section are ignored. The sections are defined in an entry table.

The entry name in each entry record in the table is the name of the section. So if you have a section named Auto Coverage, the entry name in your entry table would be Auto Coverage.

Go to the Entry group in the Field Options of the multiline text field which is being used for Paragraph Assembly. Set the pre-edit module to TERSW32. Set the Pre-edit Procedure to TerSubstitute. Assign the name of the entry table to the Lookup file field. Assign the applicable entry table ID to the Lookup ID field. Select the desired Return setting.

Lookup in Server and Entry environments

For a Documaker Server or interactive entry form, this option specifies lookup file information, if applicable. This table describes these options:

Option	Description
File	Enter the Lookup file name that contains the table that you want to associate with this field. Use the ellipsis button to locate the Lookup name. If a Lookup file name was specified in the Section Options, it defaults here.
ID	Enter the Table name you want to associate with this field. Use the ellipsis button to locate the Table name.
Returns	Specify what you want returned to this field from the table. Valid entries are Key, Description, Key & Description, Description & Key, or nothing. Ensure that the field length is long enough to accept your choice here.

Calculations on fields for entry use

This defines a calculation using DAL functions. You have these options:

Option	Description
This Field	Calculates the value of the field when you tab through it (calculated only once).
All Fields	Recalculates the value of the field each time you tab to a new field.

Option	Description
Script	This is where you enter the DAL scripting entry. Refer to the DAL Reference for more information.

Links on fields

The following table lists the properties needed for specific link types:

Link type	Description	Option needed	
External	Set up a link to web page	Link border, HTML reference, Parameters	
Internal	Intra-document link that takes you to another page of the document (the target). The name of the object must be the same as the name of the target object to which you want to link.	Link border, Target Name	
Target	Field that you want to go to when you click the internal link	Link border, Name	

Mobile

The following table lists the options provided a part of the Mobile feature:

Option	Description
Omit	Select this check box, if you do not want the object to be included in the Mobile Output .
Context	Select this option to pick from a list of available tags or edit/add a new one on the particular object.

Note This option requires Documaker Mobile. If you have not purchased and installed Documaker Mobile the required mobile options will be disabled. To purchase Documaker Mobile, visit My Oracle Support website or contact your Oracle Sales representative.

Accessibility

INSERTING SIGNATURES

Within Documaker Studio, signature object(s) can be added to sections. The signature object identifies the location for the signature. The signature object supports electronic document signing with eSignature vendors including AssureSign, DocuSign and OneSpan Sign.

ASSURESIGN

AssureSign (https://www.assuresign.com/) is an electronic signature software solution vendor. The AssureSign signature object settings and their options are described below.

General	
Name	SIGNATURE
Style	
Туре	AssureSign Signature Block
Input Method	Typed
Input Type	Signatory
Font Name	Courier New
Font Size	10 point
Bold	
Italic	
Underline	
Task Comments	
Redact Tag	
Workflow	
Signatory Email	=GVM("Signatory_Email")
Signing Order	1
Signing Step	1
Required	\checkmark
Typed	
Horizontal Alignment	Left
Vertical Alignment	Bottom
Word Wrap	
Signatory Input Type	Auto
Validation Type	None
Display	
Certified	
Border	None
Coordinates	
Horizontal	1525 FAPs
Vertical	1475 FAPs
Width	5675 FAPs
Height	1850 FAPs
Accessibility	
Skip Reading	

General

Assign general information:

Name	(Required) The default name is SIGNATURE. Enter a name for the AssureSign signature. Assign a unique name to facilitate reference to the AssureSign signature for editing or other purposes. As you add additional AssureSign signatures to the section, #nnn is appended to the name, for example MY SIGNATURE #002, MY SIGNATURE #003, etc. Note: Some signature vendors have specific naming requirements and/or limitations. Check the vendor's documentation for specifics.
Style	(Optional) Assign a style to the signature object. The Style setting displays when a style is defined in the Application Definition file.
Туре	Select AssureSign signature block for AssureSign signature.
Input Method	The document offers a place to 'sign" the document with signatures or initials. Signature properties are shown based on the selected Input Method. Written – creates a signature JotBlock which asks the signer to use their mouse, finger or stylus sign. Typed – creates a signature JotBlock that allows the signers to type their input using a keyboard.
Input Type	The Input type for the selected Input Method. For Input Method of Written, the Input Type is Signatory; the signature JotBlock is filled by the signatory For Input Method of Typed, selections include Fixed, Parameter or Signatory.
Ink Color	Applicable for Input Method of Written. The Ink Color specifies the signature text color. Available selections are Blue or Black.
Font Name	Applicable for Input Method of Typed. The Font Name specifies the font name for the signature. Available selections include Arial, Courier New and Times New Roman.
Font Size	Applicable for Input Method of Typed. Select the font size that you wish to use when presenting the signature. The selection is limited to those font sizes supported by AssureSign.
Bold	Applicable for Input Method of Typed. When enabled, the signature area is bolded.
Italic	Applicable for Input Method of Typed. When enabled, the signature area is italicized.
Underline	Applicable for Input Method of Typed. When enabled, the signature area is underlined.
Redact Tag	Select this option to assign redact tags to the object via the redact tag pick list or by keying redact tag(s). Separate multiple redact tags with a comma.

Workflow

Property attributes associated with AssureSign Signature Block:

Signatory Email	(Required) Used to assign how the signer's email is mapped to the signature block. Select from DAL Script, DAL Variable, GVM variable, INI Lookup or XDD Lookup. The default value is = GVM("Signatory_Email"). It is critical that you ensure that the proper signatory email name is inserted as Documaker has no way to know whether a particular GVM will exist at runtime.
Signing Order	The signing order defines the signing sequence when there are multiple signatures. This may be important if numerous signature blocks will not be signed in the top-down left-right order.

Signing Step	The signing step defines the number of steps. Generally, if only one signature will be signing, signing occurs in a single step. If there are multiple signatories, JotBlocks may be signed in a single step or in multiple (sequential) steps.
Required	The Required flag indicates whether the signatory's signature is required.

Typed

Property attributes associated with AssureSign Signature Block using an Input Method = Typed.

Horizontal Alianment	Determines the signature text display. Selections include Left, Center or Right.
Horizontal Alignment	Determines the signature text display. Selections include Left, Center of Aight.
Vertical Alignment	Determines the signature text display. Selections include Top, Center or Bottom.
Word Wrap	When selected, the contents will wrap text within the defined area. When not selected, the text may display beyond the border of the defined area.
	Indicates the type of method of input the signer will be prompted to use for this JotBlock. If not specified this value defaults to Auto. Possible values are:
	Auto – the application will attempt to determine the appropriate signatory input type based on other provided information. The Timestamp type must be explicitly set, however.
	FreeText – for typed JotBlocks for which there is no Validation Type specified.
	Prefill – for typed JotBlocks for which a Validation Type is specified.
	Multiple Choice Text – for JotBlocks for which a selection will be made from a drop down list and where the applied information will be text. An Options element must be specified.
	Multiple Choice Graphic – for JotBlocks for which a selection will be made from a drop down list and where the applied information will be a graphic. An Options element must be specified and each TypedJotBlockOption must have a GraphicRenderType set.
Signatory Input Type	Timestamp – renders a Timestamp based on the detected client machine date and time at the conclusion of the assigned signatory's signing step.
	ValidationType may only be specified when the Input Type is set to Typed. Possible values are:
	Current Date Prefill – the JotBlock contents entered by the signatory must be a date, and it will be initially populated with the current date.
	Date – the JotBlock contents must be a date.
	Email Prefill – the JotBlock contents must be a valid email address, and it will be initially populated with the email of the signatory.
	First Name Prefill – the JotBlock contents must be alphanumeric, and it will be initially populated with the first name of the signatory.
	Full Name Prefill – the JotBlock contents must be alphanumeric, and it will be initially populated with the full name of the signatory.
	Last Name Prefill – the JotBlock contents must be alphanumeric, and it will be initially populated with the last name of the signatory.
	Long Date Prefill – the JotBlock contents entered by the signatory must be a date, and it will be initially populated with the current date in the form MMMM DD. YYYY.
	None - no validation is performed.
	Numeric – the JotBlock contents must be numeric.
	Short Date Prefill – the JotBlock contents entered by the signatory must be a date, and it will be initially populated with the current date in the form MM/DD/YYYY.
Validation Type	Ten Digit Phone Number – the JotBlock contents must be a valid 10 digit phone number.
Value	(Required) When the Input Type is set to Fixed, the Value field is required. By default, Documaker Studio will set this field's value to "Value".

Parameter Name

(Required) When Input Type is set to Parameter, a Parameter Name is required. By default, Documaker Studio will set this field's value to the creative value "Parameter_Name".

Options

The Options group displays when Signatory Input Type is set to either Multiple Choice Text or Multiple Choice Graphics.

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General	
Name	SIGNATURE
Style	
Туре	AssureSign Signature Block
Input Method	Typed
Input Type	Signatory
Font Name	Courier New
Font Size	10 point
Bold	
Italic	
Underline	
Task Comments	
Redact Tag	
Workflow	
Typed	
Horizontal Alignment	Left
Vertical Alignment	Bottom
Word Wrap	
Signatory Input Type	Multiple Choice Graphic
Validation Type	None
Options	
Display Text	Yes
Data Value	Y
Graphic	Checkmark In A Box
Display Text	No
Data Value	N

The options area appears depending upon the Signatory Input Type selection. The options on the right may be used to add additional display options.

Display Text

Data Value	Applicable for Multiple Choice Text Signatory Input Type. Enter the text to display to the signatory. Display Text contains a string which is displayed to the user as a choice in Assuresign. The Data Value is the internal data used with the AssureSign signature indicating that choice was selected.
Display Graphic	
Data Value	Applicable for Multiple Choice Graphic Signature Input Type. A graphic is displayed to the user based on the selected graphic value.
	 Select the desired graphic setting from the pick list: Empty Box – an empty box frame will be rendered. No Graphic – no graphic will be rendered. Checkmark In A Box – a checkmark in a box frame will be rendered. Checkmark Without A Box – a checkmark will be rendered without a box. 'X' In A Box – an 'X' graphic will be rendered within a box frame.
Graphic	'X' Without A Box - an 'X' graphic will be rendered without a box frame.

To delete Display Text or Display Graphic group, click in the Display Text or Display Graphic heading. A red X displays; clicking on it deletes that Display Text or Display Group.

Ŷ	Typed	
	Horizontal Alignment	Left
	Vertical Alignment	Bottom
	Word Wrap	
	Signatory Input Type	Multiple Choice Graphic
	Validation Type	None
-	Options	Θ
	Display Text	I 🐹
	Data Value	
	Graphic	No Graphic

Display

The display settings of Certified and Border display control the appearance of the signature in the output document. :

Certified	Certified visually distinguishes the signature from other with printed "metadata" embedded around the signature data. This metadata includes an "Electronically Signed" statement, a date/time stamp, an IP address stamp and an internal ID. If the Border property is not set, it will default to AII for a Certified JotBlock. The AssureSign application enforces a minimum height and width to ensure that all elements render correctly to the document.
	Border defines whether to create a thin black border beneath the bottom of the signature block or on all sides of the signature block. Border setting defaults to All when Certified is selected. Change to None or Bottom as needed. Border setting defaults to None when Certified is not selected. Change to All or Bottom as needed. All - The entire signature block is surrounded by a box. Bottom - A line appears under the signature block giving the appearance of being underlined.
Border	None - No line or box border will be shown.

Coordinates

The coordinates defined the location and size of the signature object.

Horizontal	The horizontal (left) starting position of the signature object.
Vertical	The vertical (top) starting position of the signature object
Width	The width of the signature object.
Height	The height of the signature object.

Note Some signature vendors have width and height requirements and/or limitations. Check the vendor's documentation for specifics.

Accessibility

These settings define the Accessibility attributes for the signature object.

Skip Reading	When Skip Reading is checked, the object is excluded from being read by assistive technology. Note: This setting is not used for signatures.
Alternate Text	Enter the alternate text to use.

Mobile

These settings define the Mobile Property attributes for the signature object.:

Omit	When selected, omits the signature object from Mobile output.
Context	Can be used to define a custom context tag for the signature object. Select a context from the list of available context tags or key a context tag.

Note This option requires Documaker Mobile. If you have not purchased and installed Documaker Mobile the required mobile options will be disabled. To purchase Documaker Mobile, visit My Oracle Support website or contact your Oracle Sales representative.

DOCUSIGN

DocuSign (https://www.docusign.com/) is an electronic signature software solution vendor. The DocuSign signature object settings and their options are described below.

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General	
Name	SIGNATURE
Style	
Туре	DocuSign Signature Block
Color	default
Task Comments	
Redact Tag	
Workflow	
Address (optional)	
Phone Type	Mobile
Phone Number	
Street	
Street 2	
City	
State	
ZIP Code	
Country	
Coordinates	
Horizontal	1525 FAPs
Vertical	1475 FAPs
Width	5675 FAPs
Height	1850 FAPs
Accessibility	
Skip Reading	
Alternate Text	
Mobile	
Omit	

General

Assign general information:

Name	(Required) The default name is SIGNATURE. Enter a name for the DocuSign signature.Assign a unique name to facilitate reference to the DocuSign signature for editing or other purposes.As you add additional DocuSign signatures to the section, #nnn is appended to the name, for example MY SIGNATURE002, MYSIGNATURE003, etc. NOTE: Some signature vendors have specific naming requirements and/or limitations. Check the vendor's documentation for specifics.
Style	(Optional) Assign a style to the signature object. The Style setting displays when a style is defined in the Application Definition file.
Туре	Select DocuSign Signature Block for DocuSign signature.
Color	Specify the color in which the signature text will be displayed by Acrobat. Make sure the Print in Color option has been checked.
Task Comments	To do comments that will appear in "Printing a Finishing Report". Task comments can be entered on the signature object in Studio. Task comments can also come from signature objects when converting a Documaker document in Studio. Task comments can be used to provide additional information to another person who may be responsible for applying signature attributes or to provide notes about a signature object.
Redact Tag	Select this option to assign redact tags to the object via the redact tag pick list or by keying redact tag(s). Separate multiple redact tags with a comma.

Workflow

Name	(Required) Used to assign how the signer's Name is mapped to the signature block. Select from DAL Script, DAL Variable, GVM variable, INI Lookup or XDD Lookup. The default value is =GVM("Name"). Ensure that the proper Name is inserted as Documaker has no way to know whether a particular GVM will exist at runtime.
	(Required) Used to assign how the signer's email is mapped to the signature block. Select from DAL Script, DAL Variable, GVM variable, INI Lookup or XDD Lookup. The default value is =GVM("Signatory_Email"). Ensure that the proper signatory email name is inserted as Documaker has no way to know whether a protected by OM will exist a transferred.
Signatory Email	particular GVM will exist at runtime.

	(Required) Indicates the signing role. The role is attached to a user which in turn links an approval block to a user. Users assigned to this role can sign this block.
	The default is Signer.
	Agent - A recipient who can add name and email information for recipients that appear after the recipient in routing order. For instance, if you have an Agent recipient in routing order 1, and two recipients in routing order = 2, then the Agent will be able to edit the recipient information of those two subsequent recipients.
	Carbon Copy - Use this action if the recipient should get a copy of the envelope, but the recipient does not need to sign, initial, date or add information to any of the documents. This type of recipient can be placed in any order in the recipient list. The recipient receives a copy of the envelope when the envelope reaches the recipient's order in the process flow and when the envelope is completed. CC recipients are special in that they do not take any actions on the envelope but instead just receive a copy of it.
	Certified Delivery - Use this action if the recipient must receive the completed documents for the envelope to be completed, but the recipient does not need to sign, initial, date or add information to any of the documents. This is analogous to Certified mail delivery through the U.S. post office and is used to confirm that your recipients have received the envelope.
	Editor - This recipient has the same management and access rights for the envelope as the sender and can make changes to the envelope as if they were using the Advanced Correct feature. This recipient can add name and email information, add or change the routing order and set authentication options for the remaining recipients. Additionally, this recipient can edit signature/initial tabs and data fields for the remaining recipients. The recipient must have a DocuSign account to be an editor.
	In Person Signer – Use when the signer is in the same physical location as a DocuSign user who acts as a Signing Host for the transaction. The recipient added is the Signing Host; a new separate Signer Name field appears after Sign in person is selected.
	Intermediary – This recipient can, but is not required to, add name and email information for recipients at the same or subsequent level in the routing order (until subsequent Agents, Editors or Intermediaries recipient types are added).
Туре	Signer – Used when the recipient must sign, initial, date or add data to form fields on the documents in the envelope.
	(Required) This option defines the signer's Name signature block mapping. Selections include DAL script, DAL variable, GVM variable, INI lookup and XDD lookup. The Signatory Token Email Wizard guides you through the setup.
	The default value is =GVM("Signer_Name").
Signer Name	Ensure that the proper signatory email name is inserted as Documaker has no way to know whether a particular GVM will exist at runtime.
Require ID Lookup	(Required) Indicates whether the recipient is the required to complete an ID Check or Phone Authentication check.
Routing Order	(Required) Controls the routing order in which the recipients receive email notifications once previous recipients have completed the document.

Address

Phone Type	Defines the signer's phone type. Selection include Home, Mobile and Office.	
Phone Number	This option is used to assign how the signer's phone number will be mapped into the signature block. A wizard is available that will help you select from a DAL script, DAL variable, GVM variable, INI lookup, XDD lookup, or any other supported map methods.	
Street	This option is used to assign how the signer's Street Address will be mapped into the signature block. A wizard is available that will help you select from a DAL script, DAL variable, GVM variable, INI lookup, XDD lookup, or any other supported map methods.	
Street2	This option is used to assign how the signer's Street Address 2 will be mapped into the signature block. A wizard is available that will help you select from a DAL script, DAL variable, GVM variable, INI lookup, XDD lookup, or any other supported map methods.	

City	This option is used to assign how the signer's city will be mapped into the signature block. A wizard is available that will help you select from a DAL script, DAL variable, GVM variable, INI lookup, XDD lookup, or any other supported map methods.
State	This option is used to assign how the signer's state will be mapped into the signature block. A wizard is available that will help you select from a DAL script, DAL variable, GVM variable, INI lookup, XDD lookup, or any other supported map methods.
Zip Code	This option is used to assign how the signer's zip code will be mapped into the signature block. A wizard is available that will help you select from a DAL script, DAL variable, GVM variable, INI lookup, XDD lookup, or any other supported map methods.
Country	This option is used to assign how the signer's country will be mapped into the signature block. A wizard is available that will help you select from a DAL script, DAL variable, GVM variable, INI lookup, XDD lookup, or any other supported map methods.

Coordinates

The coordinates defined the location and size of the signature object.

Horizontal	The horizontal (left) starting position of the signature object
Vertical	The vertical (top) starting position of the signature object
Width	The width of the signature object.
Height	The height of the signature object.

Note Some signature vendors have width and height requirements and/or limitations. Check the vendor's documentation for specifics.

Accessibility

These settings define the Accessibility attributes for the signature object.

Skip Reading	When Skip Reading is checked, the object is excluded from being read by assistive technology. Note: This setting is not used for signatures.
Alternate Text	Enter the alternate text to use.

Mobile

representative.

These settings define the Mobile Property attributes for the signature object.

Omit		When selected, omits the signature object from Mobile output.
Context		Can be used to define a custom context tag for the signature object. Select a context from the list of available context tags or key a context tag.
Not	Do	is option requires Documaker Mobile. If you have not purchased and installed ocumaker Mobile the required mobile options will be disabled. To purchase ocumaker Mobile, visit <i>My Oracle Support website</i> or contact your Oracle Sales

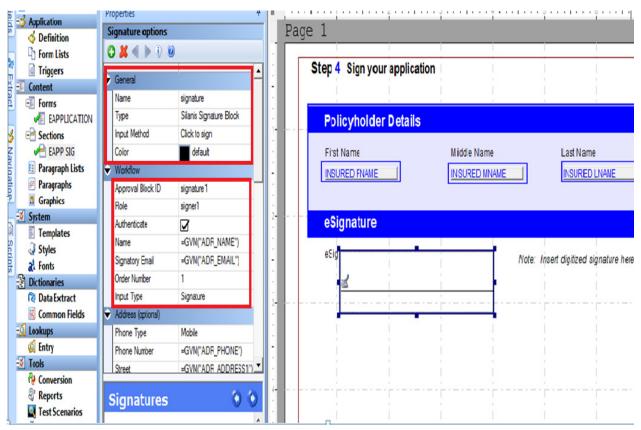
ONESPAN SIGN

OneSpan Sign (https://www.eSignLive.com/) is an electronic signature software solution vendor.

The OneSpan Sign signature object settings and their options are described below.

-) 🗶 🌗 🖣 🕲			
>	General			
	Name	SIGNATURE		
	Style			
	Туре	Silanis Signature Block		
	Input Method	Click to sign		
	Color	default		
	Task Comments			
	Redact Tag			
>	Workflow			
,	Address (optional)			
	Phone Type	Mobile		
	Phone Number			
	Street			
	Street 2			
	City			
	State			
	ZIP Code			
	Country			
,	Coordinates			
	Horizontal	1525 FAPs		
	Vertical	1475 FAPs		
	Width	5675 FAPs		
	Height	1850 FAPs		
,	Accessibility			
	Skip Reading			
	Alternate Text			
>	Mobile			
	Omit			

To enable the template designer to specify the location and properties of the signature area, use the **OneSpan Signature Block** signature Type.



The following items are mandatory to the template designer when creating a form in Documaker Studio that requires to be signed using OneSpan Sign.

General

Assign general information:

Name	 (Required) Enter a name for the OneSpan Sign signature object. Assign a unique name to facilitate reference to the OneSpan Sign signature for editing or other purposes. The default name is SIGNATURE. As you add additional OneSpan Sign signature objects to the section, nnn is appended to the name. For example SIGNATURE002, SIGNATURE003, etc. NOTE: Some signature vendors have specific naming requirements and/or limitations. Check the vendor's documentation for specifics.
Style	(Optional) Assign a style to the signature object. The Style setting displays when a style is defined in the Application Definition file.
Туре	Select OneSpan Sign Signature Block for OneSpan Sign Signatures.
Input Method	The document offers a place to 'sign" the document with signatures or initials. Signature properties are shown based on the selected Input Method. Click to Sign: Select this option when the document recipient clicks a box to sign the document. Input Device: Use this property in order to use one of two signature input types; Signature or Initials.
Color	Color is used if the document is signed within Adobe Acrobat.

Redact TagSelect this option to assign redact tags to the object via the redact tag pick list or by keying redact tag(s).Separate multiple redact tags with a comma.

Workflow

Property attributes associated with OneSpan Sign Signature Block:

	Represents a set or grouping of one or more signature placeholders. It is important to note within OneSpan Sign, an Approval is a grouping of one or more signature placeholders as illustrated below.	
Approval Block ID		
Role	A generic value which is defined in OneSpan Sign. Examples include signer001, signer002 or viewer001, viewer002. Assign a role which matches list of possible signer roles known to OneSpan Sign. A role is attached to a user which links the approval block to a user. Users assigned to this role can sign this approval.	
Authenticate	Enables the authentication option; the signer will need to prove their identity to access OneSpan Sign session.	
Name	The name of the approver. The default value is = GVM("Name") Ensure that the proper signatory email name is inserted as Documaker has no way to know whether a particular GVM will exist at runtime.	
Signatory Email	 (Required) Defines the mapping of signer's email into the signature block. Selections include DAL script, DAL variable, GVM variable, INI lookup and XDD lookup. A wizard guides you through the Signatory Email setup. The default value is = GVM ("Signatory_Email"). Ensure that the proper signatory email name is inserted as Documaker has no way to know whether a particular GVM will exist at runtime. 	
Order Number	(Integer value) Defines the signing order of multiple signature blocks if they are not being signed in a top-down/left-right order. If multiple blocks all have the same order value, the application will present signature blocks in the reading order they appear in the document.	
Input Type	Indicates the input type. Choose from SIGNATURE (hand-scripted signature) or INITIALS (click to Initial).	

Address (Optional)

Property attributes associated with OneSpan Sign Signature Block:

Phone Type	Defines the signer's phone type. Selections include Home, Mobile and Office.
Phone Number	This option defines the signer's Phone Number signature block mapping. Selections include DAL script, DAL variable, GVM variable, INI lookup and XDD lookup. The Signatory Token Email Wizard guides you through the setup.
Street	This option defines the signer's Street Address signature block mapping. Selections include DAL script, DAL variable, GVM variable, INI lookup and XDD lookup. The Signatory Token Email Wizard guides you through the setup.
Street2	This option defines the signer's Street Address 2 signature block mapping. Selections include DAL script, DAL variable, GVM variable, INI lookup and XDD lookup. The Signatory Token Email Wizard guides you through the setup.
City	This option defines the signer's City signature block mapping. Selections include DAL script, DAL variable, GVM variable, INI lookup and XDD lookup. The Signatory Token Email Wizard guides you through the setup.
State	This option defines the signer's State signature block mapping. Selections include DAL script, DAL variable, GVM variable, INI lookup and XDD lookup. The Signatory Token Email Wizard guides you through the setup.
Zip Code	This option defines the signer's Zip Code signature block mapping. Selections include DAL script, DAL variable, GVM variable, INI lookup and XDD lookup. The Signatory Token Email Wizard guides you through the setup.
Country	This option defines the signer's Country signature block mapping. Selections include DAL script, DAL variable, GVM variable, INI lookup and XDD lookup. The Signatory Token Email Wizard guides you through the setup.

Coordinates

The coordinates define the location and size of the signature object.

Horizontal	The horizontal (left) starting position of the signature object.	
Vertical	The vertical (top) starting position of the signature object.	
Width	The width of the signature object.	
Height	The height of the signature object.	

Note Some signature vendors have width and height requirements and/or limitations. Check the vendor's documentation for specifics.

Accessibility

These settings define the Accessibility attributes for the signature object.

Skip Reading	When Skip Reading is checked, the object is excluded from being read by assistive technology. Note: This setting is not used for signatures.
Alternate Text	Enter the alternate text to use.

		These settings define the Mobi	le Property attributes for the signature object
Omit		When selected, omits the signature	e object from Mobile output.
Context		Can be used to define a custom c available context tags or key a co	ontext tag for the signature object. Select a context from the list of ntext tag.
Note		Documaker Mobile the required	Mobile. If you have not purchased and installed mobile options will be disabled. To purchase cle Support website or contact your Oracle Sales
	Note	need to activate an OneSpan Si	enabled for OneSpan Sign electronic signing you will gn account with OneSpan Sign. This release of a 30 day account with OneSpan Sign. You can activate
	Note	need to activate an OneSpan Si Documaker entitles you to a free	gn account with OneSpan Sign. This release of 30 day account with OneSpan Sign. You can activate
	Note	need to activate an OneSpan Si Documaker entitles you to a free your account by clicking: http://secure.eSignLive.com/Ora	gn account with OneSpan Sign. This release of 30 day account with OneSpan Sign. You can activate

Mobile

TT1

PDF PLACEHOLDER

Placeholder signatures are empty placeholders where a digital signature can be added later (PDF only).

Adobe's PDF format lets you add digital signatures to documents. Some vendors and companies use PDF-based software solutions as a way of implementing electronic document signatures.

In Documaker, these empty signature fields are called PDF signature placeholders.

When you open a PDF file that contains a signature placeholder in Adobe Acrobat, the signature field appears as shown below. When you click on the signature field, Acrobat displays a window that lets you sign the document electronically.



While Documaker and the PDF standard allow for any number of signatures to be placed in a document, the PDF standard does not provide for signing only sections of a document. That means the digital signatures will apply to the entire document. **Note** Other third-party signing tools, typically sold as plug-in extensions to Acrobat, may support multiple signatures in a document. The Documaker solution can be used with third-party signing tools, but Documaker itself does not manage the signing process for this type of signature.

Signature Option Panel

Properties	
Signature options	
C 🗶 🜒 🕨 🕄 🥘	
🗢 General	
Name	
Style	
Туре	PDF Placeholder
Font ID	24010 Albany AMT 10 PT (PCL AFP XER O
Color	default
Task Comments	
Redact Tag	
Coordinates	
Horizontal	1525 FAPs
Vertical	1475 FAPs
Width	5675 FAPs
Height	1850 FAPs
Accessibility	
Skip Reading	
Alternate Text	
Mobile	
Omit	
Context	

General

Assign general information:

Name	(Optional) Enter up to 64 characters as a name for the signature object While the name is optional, it is recommended that a name be assigned to the signature object.
Style	(Optional) Assign a style to the signature object. The Style setting displays when a style is defined in the Application Definition file.
Туре	Select PDF Placeholder for PDF Placeholder signature.

Font ID	Specify the font with which the signed field will be displayed by Acrobat.
Color	Specify the color in which the signature text will be displayed by Acrobat. Make sure the Print in Color option has been checked.

Coordinates

The coordinates defined the location and size of the signature object:

Horizontal	The horizontal (left) starting position of the signature object.	
Vertical	The vertical (top) starting position of the signature object.	
Width	The width of the signature object.	
Height	The height of the signature object.	

Note	Some signature vendors have width and height requirements and/or limitations. Check
	the vendor's documentation for specifics.

Accessibility

These settings define the Accessibility attributes for the signature object.

Skip Reading	When Skip Reading is checked, the object is excluded from being read by assistive technology. Note: This setting is not used for signatures.
Alternate Text	Enter the alternate text to use.

Mobile

These settings define the Mobile Property attributes for the signature object:.

Omit	When selected, omits the signature object from Mobile output.		
Context	Can be used to define a custom context tag for the signature object. Select a context from the list of available context tags or key a context tag.		

Note This option requires Documaker Mobile. If you have not purchased and installed Documaker Mobile the required mobile options will be disabled. To purchase Documaker Mobile, visit My Oracle Support website or contact your Oracle Sales representative.

CONVERTING MULTILINE TEXT FIELDS TO PARAGRAPH ASSEMBLY

Studio 12.1 and higher lets you convert a multiline text field that was created using the legacy version of Paragraph Assembly, known as TERSUB, to the newer model of Paragraph Assembly. TERSUB was a Pre-edit function used to define paragraph selection prior to the addition of Paragraph Assembly attributes for multiline text fields.

TERSUB AND MULTILINE TEXT FIELDS

This topic provides an overview of the TERSUB functionality for the purpose of legacy support. The TERSUB function was the legacy version of Paragraph Assembly and allowed you to apply pre-written, standardized text to a multiline text field. You should use the Paragraph Selections properties to define Paragraph Assembly in the current version of Studio.

The first step to set up TERSUB was to create a text area containing one or more paragraphs in a section file (FAP). You created one section file for each text area that you wanted to apply to the multiline text field. Each individual section file served as a table entry in a table file (.DBF) that you created separately. For example, if you created four sections called:

- AUTO.FAP
- BOAT.FAP
- HOME.FAP
- LIFE.FAP

You would then create a table file called INSURANCE.DBF and add entries to the table named Auto, Boat, Home and Life.

Once these entries were inserted into the table, you created another section containing the multiline text field to which to apply Paragraph Assembly. This multiline field used TERSW32 as the pre-edit module and TerSubsitute as the preedit procedure. Instead of defining a Paragraph List file, you specified a lookup file (in this example, the lookup file is INSURANCE.DBF) as well as a lookup ID. The available TERSUB options could be entered manually using specific codes separated by semicolon-delimited text in the Entry, Pre-edit, Data field on the Field Options pane

CONVERTING MULTILINE TEXT FIELDS

Use the Convert to Paragraph Assembly button in the Field Options pane to upgrade the TERSUB options to the current Paragraph Assembly for a selected multiline text field. This button is only available for those fields currently assigned the TerSubstitute pre-edit procedure. Follow these steps to convert a multiline text field:

1. Open a section containing the multiline text field you wish to convert.

perties	9			. 4500	7206	
eld Options		Page	1			
X < ▶ 5. 2.	200		1		1	
General	-	1				
Name	FIELD	-				
Prompt		2				
FontID	24014 Albany AMT 14 PT (
Туре	Multine Text	°-1	FIELD			
Format		-				
Task Comments		1				
Paragraph		5- C				
Hyphenation	None					
Tab stops	0 FAPs					
Paragraph Selectio	n 🗆 🚽	-				
Coordinates						
Attributes		f	-			
Documerge		8-10				

2. In the Field Options box, scroll down to the Entry, Pre-Edit options.

The pre-edit procedure, TerSubstitute, appears in the Procedure field and beneath it is the Convert to Paragraph Assembly button.

Pr	Properties		
	ield Options	0.0	
F	Pre-edit		-
	Module	TERSW32	
	Procedure	TerSubstitute	
	Data		
		Convert to Paragraph Assembly	
Þ	Navigation		
Þ	Post-edit		-

3. Click the Convert to Paragraph Assembly button.

During the conversion process, Studio creates a new Paragraph Selection List file (.PSL). The name of the PSL file is derived from the Lookup Table File and Table ID specified under the Lookup section. The resulting PSL file in the example below is INSURANCE_LINES.PSL.

 Entry 					
No User Edit					
Spell Check					
 Pre-edit 	Pre-edit				
Module	TERSW32				
Procedure	TerSubstitute				
Data					
	Convert to Paragraph Assembly				
 Navigation 	Navigation				
Post-edit					
 Lookup 					
File	INSURANCE				
ID	LINES				
Returns	Nothing				

- If this PSL file is not found in the library a new file is created and the Check In window appears. Enter the file attributes and click OK.
- **Note** You must have proper administrative level access to check in the PSL file. If you lack the required access, contact your system administrator.

🚰 Check In	×
Name:	INSURANCE_LINES
Description:	1
Version:	00001 Encrement version
Revision:	00001
Effective date:	4/20/2012
Mode:	
Status:	
Class:	
Project:	-
	Remove original file from disk
	OK Cancel

- Enter the file attributes and click OK to check the new PSL into the library. If the conversion is successful:
 - The Pre-Edit and Lookup values are cleared from under the Entry section.
 - The name of the PSL file appears in the Paragraph List field.
 - The options under the Paragraph Selection are selected to match the corresponding TERSUB options that were defined for the text field.

 Paragraph 		
Hyphenation	None	
Tab stops	600 FAPs	
 Paragraph Selection 	V	
Paragraph List	INSURANCE_LINES	
	Edit Paragraph List	
No Tab	V	
Select One		
Single Pass	V	
Keep Selection	I	
No Editing		
Only Empty	I	
Zero Selection		
Unique Fields		
Manual Popup		
Allow	Append/Replace	
List Presentation	Name then Description	

• If the conversion is successful, the Pre-Edit and Lookup properties will be cleared and the Paragraph Assembly properties will now reflect the new settings.

If the conversion fails, a message appears in the Output section and identifies the

field and section where the error occurred.

- **Note** To learn more about the Mode, Status, Class, and Project fields see *Managing Resources* on page 325.
 - Select the Edit Paragraph List button to open the PSL file in the Paragraph List manager.

Paragraph Lists	алто
INSURANCE_LINES v1.2 4/20/2012	This introduction explains the various provisions and restrictions in the auto policy coverage.
	BOAT
AUTO BOAT	This introduction explains the various provisions and restrictions in the maritime policy coverage
HOME STREET	HOME
	This introduction explains the various provisions and restrictions in the homeowners policy cov
	LIFE
	This introduction explains the various provisions and restrictions in the life insurance policy co

During the PSL file creation, the table entries in the lookup table are read and the list of paragraphs determined. A library search occurs to determine whether that resource already exists as a paragraph file defined in the library. Based on the search, the following occurs:

• If the paragraph file already exists in the library, a reference to the file is created in the paragraph list.

• If the paragraph file does not exist, then the previously associated section file (FAP) is loaded and stored within the PSL file as an embedded paragraph file.

Note

If you want to reuse the embedded paragraph file as a separate physical file then you must manually unembed the resource from the PSL file. To do so, follow these steps:

1. In the Paragraph List manager, select the paragraph from the paragraph list.

2. Remove the checkmark from the Embedded field. This starts the Unembed Resource wizard.

Use the Unembed Resource wizard to unembed the resource.
 See Working with Embedded Paragraphs on page 285 for more information.

MANAGING CONVERSION ERRORS

These errors messages can appear if the conversion fails:

• An error message appears if you don't have the proper administrative level access to create and check in the PSL file. The message also informs you to contact your system administrator to obtain the correct permissions.

• An error message appears if the TerSubstitute parameters includes the recipient (R=) option. The conversion will not take place as there is not enough information in the fields definition to identify what Form contains the relevant recipient.

PRINTING A FORM, SECTION, OR PARAGRAPH

To print a form, section, paragraph, or other object you have open, right-click and choose the Print option. Studio shows you the Print window:

ኞ PCL Print	×	
Print type: PCL	Form/Form Set: Form Set	
Device:		
Options	Recipients	
Download fonts		
✓ Template fields		Click here to see the
🗖 Send overlays		INI options for this
🗹 Select recipients		printer type.
Send Color		
Pre-printed Paper		
	🗖 All recipients	
Use Watermark	Number of copies: 1	
	Additional Print Options	
	OK Cancel	

Note The fields on this window can vary, depending on the type of printer you chose. This discussion focuses on the PCL printer type.

You can use these fields to define your print job:

Field	Description
Print Type	Select the printer type. Your choices include: PCL, AFP, Metacode, PostScript, VIPP.
Device	Select the name of the file or device (LPT1) where the print stream should be written.
Form/Form Set	Choose whether you want to print the current form or the entire form set.
Download Fonts	Downloads to the printer the fonts needed to correctly print the format
Template Fields	Displays the name of the field instead of actual field data on the printed form.
Send Overlays	Overlays are FAP images compiled into HP printer language. This enhances print speed. Usually, this option is automatically selected.
Select Recipients	Click this box to select recipients.
Fit to Width	Prints the full width of the image on the page.
Send Color	Enables color printing if a supported color printer is used.
Pre-printed Paper	Check this box to include objects marked as pre-printed. All objects except fields can be marked pre-printed on the object's Properties window.
Recipients	Here Studio shows you the recipients selected
Number of Copies	Enter the number of copies you want to print.

	Local Shared					
	PrtType:PCL					
	🔁 🗶 🛣 🤋 🥹					
	HighlightInitCmd	~*r-3U				
	InitEunc	PCLInit				
	Module	PCLW32				
	MultipleCopies	Yes				
e Local tab lets you view	OutputBin					
	OutputMod	PCLW32				
d change settings that	OverlayExt	.ovi				
ply to your computer. The	OverlayPath					
ared tab lets you view	PageNumbers	Yes				
d change settings that	PaperSizeMatching	No				
rve as defaults for all of	PJLCommentOn	BATCH				
ur Studio users.	PJLCommentScript					
	PrePrintedPaper	Yes				
	PrintFunc	PCLPrint				
	PrintViewOnly	No				
re Studio provides	Resolution	300				
formation about the	SelectRecipients	Yes				
rious INI options.						
	[PrtType:PCL]					
	PageNumbers					
		ivates the page numbering feature. Set form or form set page numbering printed				
	Example	~ 1				
		OK Cancel				
		INI antiona by chaosing Managa Syst				

Click the Additional Print Options button to see the INI options associated with the current printer type.

Note

You can also modify these INI options by choosing, Manage, System, Settings. Under Options by Topic, choose Print, the select the printer type you want to modify. The Additional Print Options button just provides a shortcut to these settings from the Print window.

You must be logged in with a user ID which has the appropriate rights to change these settings. Contact your system administrator for more information.

Once you finish reviewing the INI settings and making any necessary changes, click Ok to return to the Print window.

When you have the print options set the way you want them, click Ok to print or Cancel to exit without printing.

PRINTING STUBS

To Documaker, a *stub* is defined as a footer or header with a corresponding back side header or footer. Studio lets you set up stubs, such as remittance stubs, checks, driver IDs, and so on, and print them via Documaker Server. You can size this (stub) header or footer differently than the other headers or footers on the form.

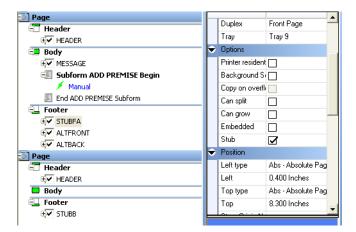
This information is passed from Studio to Documaker Server:

- Stub front section
- Stub back section
- Header or footer
- Origins
- Whether the back page is eligible for overflow

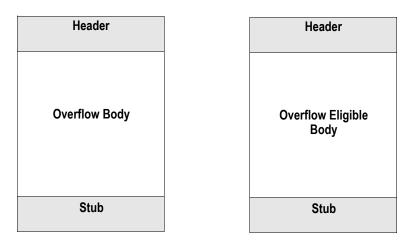
DEFINING THE STUB

This example shows how do define a section named STUBFA as a footer stub. The sections named ALTFRONT and ALTBACK are standard footers. Where defined, STUBFA is used in place of ALTFRONT and ALTBACK. The tray setting for STUBFA specifies that the stub will be printed from tray 9.

1. Create the section you will use as STUBFA (STUB Footer A) and define is as a stub by checking the Stub option, as shown here:



2. Next, define the front and back page of the stub form. If the page is comprised only of overflow and stub sections, the back page is defined as having an *overflow eligible body*.



In this example, the form named SAMPLE would be overflow eligible as it has only copy on overflow and stub sections.

SAMPLE_0000100016_19800101
🗄 🗶 😭 🤴
🔊 Page
🗐 Header
HEADER
💷 Body
Hessage
🗐 Subform ADD PREMISE Begin
🗲 Manual
End ADD PREMISE Subform
🛁 Footer
E STUBFA
Page
- Header
HEADER
🚍 Body
🖳 Footer
E, ✓ STUBB

3. If the back page includes any non-stub or non-copy on overflow sections, that page is called a *static* back page. Static back pages are not eligible for overflow, so any overflow would occur on page three.

Header		Header
Overflow Body	1	Static Images
Stub		Stub

In this example, the form named SAMPLE2 would not be overflow eligible as it has a non-copy on overflow image.

SAMPLE2_0000100005_20001030 🖶 🗶 🏦 🐥 Page **HEADER** 💷 Body € SAMPLE2 💷 Subform ADD PREMISE Begin 🗲 Manual End ADD PREMISE Subform 🖳 Footer 🖅 STUBFA 🖅 ALTFRONT 🔀 Page Header HEADER 🖃 Body E BLANKPAG 🖳 Footer . €**√** STUBB

PROCESSING HEADERS AND FOOTERS

The stub sections replace any header or footer sections on the first sheet in its defined area. For example, if both a standard footer and a stub are defined on the first page, the stub sections replace the footer images on the first two pages. If the footer is set to copy on overflow, it will begin on page three.

SETTING DUPLEX AND TRAY OPTIONS

The stub section uses the tray setting you specified for the first stub section. The first page will be forced to print on to duplex front, the second page duplex back.

Keep in mind...

- Only one stub pair (front/back) can be defined per form.
- The stub must be defined on the first two pages (the first sheet of paper).
- You must have a first page stub.
- The stub can be either a header or footer.

If an overflow image is too large to fit on a stub defined page (larger that the delta between the header bottom and the footer top), an error occurs.

USING PRINTCOMMANDER TO CREATE SECTIONS

To use Printcommander to create FAP files (sections), your system must meet the following requirements:

- Windows NT 4.0 or Windows 2000 or higher
- Administrator rights

Setting up Printcommander to create FAP files involves these steps:

- Downloading and installing Printcommander
- Creating a virtual printer
- Configuring the virtual printer
- Installing Tagcommander
- Installing Studio (if not already installed)
- Configuring NetMove

Once you have performed these steps, you can open a Windows document processor, create a file, and then convert that file into a FAP file by simply printing it to the virtual printer you set up. The following topics guide you through the set up process.

See the Printcommander documentation for additional information.

Downloading and Installing Printcommander

Follow these steps to download and install Printcommander:

1. Open a browser and go to the My Oracle Support site:

https://support.oracle.com

- 2. Sign in, then click the Patches and Updates tab.
- 3. Search for patch number 8483517.
- 4. Then click Go. The search results appear.

Pa	tch Se	earch Results								
Filte	rs: i	Patch Name or N	lumb	r is 8483517; Platform is Microsoft Windows (32-	bit);				1-1of1	Edit Search
1	ļ	Patch Name	1	Description	Release	Platform (Language)	Classification	Product/Family	Updated	Size
√ (4835:	17		PRINTCOMMANDER 6.0.10 INSTALLER (Patchset) 6	i.0	Microsoft Windows (32	Not Specifi	Skywire Print	2+ years ago	n/a
				1 Patch Selected Read Me	Add to Pl	an 🔹 🔡 Download	Сору	×		

- 5. Click Read Me to read information about this patch. Click Download to download the patch.
- 6. Once downloaded, unzip the file, then go to the following directory and run the setup.exe program:

.. \Docucreate_Workstation_FP_6_0_10 \Printcommander \6.0.10 - 20090309

7. Follow the instructions on that appear on your screen to complete the installation.

Creating a Virtual Printer

When you finish installing Printcommander, follow these steps to set up a virtual printer:

- 1. From the Start menu, select Settings, then click on Printers. Next, double-click on the Add Printer icon.
- 2. Select My Computer, then click Next.
- 3. Select DPT1: (DocuCorp Port) from the available ports, then click Next.
- 4. Click the Have Disk button. Go to the \docucorp\docucreate\ras_drvr directory in the Copy From Address field (or where you installed the files) and click OK.
- 5. Select *oemsetup4.inf* (Docucreate Virtual Raster Printer), click OK. Then click Next.
- **Note** If the system prompts you to keep an existing driver, select Keep Existing Driver and click Next.
 - 6. Enter a name for the printer.
 - If prompted to share the printer driver, select Not Shared. Then click Next.
 - If prompted to print a test page, select No. Then click Next.

This sets up a virtual printer.

Configuring a Docucorp Virtual Printer

Follow these steps to configure your virtual printer:

- 1. A new printer should appear in the Printers folder. Right click on it and select the Properties option.
- 2. Click on *Print Processor* and then select *dfxprint* as the processor and *NT EMF 1.003* as the default data type. Click OK twice. Close the printer window.

Installing Tagcommander

Tagcommander lets you add variable fields in Windows applications.

To install Tagcommander, go to the following directory and run the setup.exe program:

... Docucreate_Workstation_FP_6_0_10\Tagcommander\6.3.1.7 - 20090212 Follow the instructions that appear on your screen and be sure to restart your computer if requested.

Installing Studio

If you have not installed Documaker Studio, go to the Oracle Software Delivery Cloud and select the options required to download and install Oracle Documaker.

Configuring NetMove

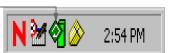
Note Windows NT uses the *winnt\profiles* directory as the default directory for storing user profiles. Windows 2000 uses the *documents and settings* directory as the default for storing user profiles. Printcommander looks for its action file (DFXOCTRL.ACT) in the *winnt\profiles* directory.

If you are using Windows 2000, create a *profiles* directory under the Windows directory. Then create a subdirectory which has the name of the logon ID of the Printcommander user, such as: *winnt**profiles**SJackson*.

Follow these steps to configure NetMove:

1. Hold down the Ctrl and Shift keys and left click on the green Docucreate Output Control icon in the system tray on the bottom right hand side of your screen.

Click here to start Docucreate's-Output Control



The NetMove Status window appears.

	NetMove Status		
		NetMove.exe, Version	4.0.1381.02.00
Have in a list of waar	User	mwn	
Here is a list of user-	User ID:	S-1-5-21-794054056-1551	127914-1501187911-1510
specified actions.	Current virtual	Q:	
	(UNC) Path to target directory.	\\MNORT01\Dfxout	
	Name of last file	[No target file has been c	reated.]
	Total number of	1 🔽 Show	w window with name of transferred file on each move.
	User specified	🔽 Dele	te transferred file after actions are complete.
	103, EXE, C:\WINNT\DfxOut.exe		UNIQUE, RUN_FIRST, MIN, LOCKED, ABLE, NTSYS
		OK	

2. Double-click in the box which displays the list of user-specified actions. The Action Specification window appears. On the Action Specification window, click the Create New Action button.

	NetMove: Action Specification	
	User Action Specification:	
	103, EXE, C(WINNT)DixOut.exe /ACT, NULL, WAIT, 0, NICE, LOCKED, ABLE, NTREG	, UNIQUE, RUN_FIRST, MIN, Next specification
	Action Version Number: 103 Executable IC:WINNT\DfxQut.exe	Update to current version
the Create New Action ton.	Entry Point Parameters: (NetMove'd file name will be added as last p Parameters: JACT Vait for action to complete before starting next action. • • • • • • • • • • • • • • • • • • •	Run order: Run first • Window appearance: Minimize window • Delete this action

- 3. Next, uncheck the Lock Action Specification field, then click the Executable button. An Open window appears. In the Files of Type field, select Dynamic-link Library (*.dll).
- 4. Go to the directory where you installed Documaker Server, such as c:\fap\dll. Select the DCDW32.DLL file in that directory and click OK.
- 5. Click the Entry Point button. The Select Exported Entry Point window appears and shows a list of functions from the DCDW32.DLL file. Select this function:

DCDDCDToFAPNM

6. Go to the Run Order field and choose the Run Last option. Your window should look like this:

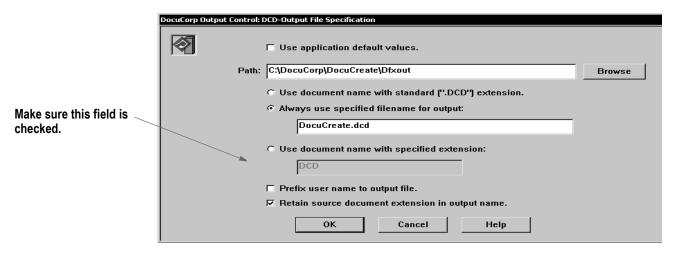
	NetMove: Action Specification
	User Action Specification:
	Previous specification Next specification
	Action Version Number: 102
	Executable C:\FAP\dll\DCDW32.DLL
	Entry Point DCDDCDToFAPNM
	Parameters: [NetMove'd file name will be the only parameter]
	Parameters
	Vait for action to complete before starting next action. Run order:
lick the Ok button when	• 180 seconds to wait (zero = infinite) Run last
our window looks like this	☐ Force retry after action has failed once. Window appearance:
	☐ Allow multiple copies of action to run at one time. Minimize window 💌
kample.	☐ Disable action.
	Disable action permanently.
	Lock action specification.
	Create new action Delete this action
	Duplicate action OK Cancel Undo changes

Then click OK on the Action Specification window and on the NetMove Status window.

 Left click on the green NetMove icon (without holding down Ctrl+Shift). The Docucreate Output Control window appears. Select DCD as the printer definition.

Print definition: DCD	•	Output Settings
Options: /CDCD /PC:\DocuCorp\DocuCreate	=\Dfxout /X+	Change
Output file type:	C Variable 2 Byte	
	C Variable 4 Byte	
	C Unformatted	
		Proof Print Settings
E Print proof.		
Proof printer: FSI\hp4000n-qa		
Proof print definition:	<u>_</u>	3
	1999/05/10, 14:53:58 CDT 2001/06/25, 17:51:16 EDT	
Accept OK	Cancel	

8. In the DCD Output Settings section, click the Change button.



Make sure the option to retain source document extensions in the output name is checked. Then click OK twice and go back to the Windows desktop.

NetMove is now configured correctly.

Note You must have a FAPCOMP.INI file in the fap\dll directory and your selected library and paths must be valid for the system to create FAP files. Also, make sure the option to retain source document extensions in the output name is turned on.

Creating a FAP File

Follow these steps to create a FAP file using Printcommander:

Note Printcommander is designed to work with word processing systems such as Word, WordPad, WordPerfect, WordPro, and so on. You can also use Excel as long as you do not include BPSD tag references. Inserted objects cannot be viewed by Tagcommander.

- 1. Start Studio and make sure a valid master resource library (MRL) is selected. In Studio, after opening a workspace, you can check this by choosing Manage, System, Settings and then looking under the Resource Path Setup settings.
- 2. Open a Windows application such as Microsoft Word. Open or create a sample document.
- 3. Select Print from the File menu and change the printer to the Docucorp virtual printer. Select OK. This generates a FAP file. You will see the green NetMove program added to the status bar at the bottom of the screen.

The new FAP file will be created in the c:\docucorp\docucreate\dfxout directory. If you installed to a drive other than C:, FAP and DCD files will be located on that drive.

4. Using a tool such as Windows Explorer, move the FAP file to the forms\ directory of your MRL.

Once you have moved the FAP file, you can delete the DCD files and any SPL files. Docucreate no longer needs these files.

If you receive an error similar to ...

PFMNAM . Error: Font Not Present for Orientation 0 in PFM: ...

Left click on the Netmove icon on the task bar and change the printer definition to DCD. See the topic, *Operating DocuCreate Output Control*, in the Printcommander documentation for more information.

Note For optimal fidelity when converting Printcommander DCD files to FAP files, the system uses static text labels for every word instead of for every line. This helps make sure justified paragraphs come out looking justified in the FAP files. This can also increase the size of the FAP files.

After you convert the file and open it in Documaker Studio, you can select a group of text labels, right click, and choose the Convert to Text Area option to combine the individual text labels into larger, more manageable text areas.

If you notice problems with underlined text, go to the printer settings (File, Print, Properties) and turn on the option to print text as graphics.

The location of this option varies, depending on the type of printer you have selected. This tells the system to treat the underlined text as a graphic and to append the FORMSX.FNT file to the Metacode. A side effect is that by having this option checked, as well as the option to use printer metrics to display the document (Tools, Options, Compatibility), you may see some garbage at the top of a tag. This will not appear in the print out.

Possible Errors

If, when printing a doc file to the raster printer, you get a message similar to the one shown here:

NetMove: netmove.exe - Unable To Locate DLL



The dynamic link library VMMW32.DLL could not be found in the specified path C:\WINNT\SYSTEM32;.;C:\WINNT\system32;C:\WINNT\system32;C:\WINNT\system32\;C:\XEClie C:\WINNT\system32;C:\WINNT;C:\WINNT\System32\Wbem,C:\WINNT\system32\nis;C:\WINNT\system32

> It indicates the system cannot find the DLL files it needs. To correct this error, set up a path to your Documaker DLL files. Normally, the installation will update the path for you, but there are situations where this may not happen, such as if the software is installed on a network drive.

Uninstalling Control Panel, Common Objects, and Printcommander

To uninstall, reverse the order in which you installed the various software tools. Uninstall Printcommander, then Control Panel, then Common Objects.

Updating Control Panel, Common Objects, and Printcommander

To update to a newer version of Control Panel, Common Objects, and Printcommander; uninstall the currently installed version and then install the newer version. You do not lose your raster printer setup but you will lose all NetMove settings so some of these steps would need to be redone.

EXAMPLE

This example describes how to build medical history sections in the Section manager

The Medical History form includes these sections: Medhead1, Medbody1, and Medfoot1. We need to create new sections, and then customize the size of the sections so they will fit on one physical page.

The three ways to create a custom sized section are:

- Use the area tool to select a portion of an existing section to make another section.
- Create the custom sized section by specifying the size of Custom and entering the correct height and width for the paper when first creating a section.
- Create the custom sized section by using the auto size feature after creating the desired objects in the section.

We will create a new full page section, add the objects needed for each part (header, body, footer), then split the section into three individual sections using the first method above.

Step A:Design a new section:

- In the Section manager, right-click Section and select New in the floating menu. An untitled section appears on the right.
- The **Medhead1** section has a box surrounding the text. *Add a box* to the new work area.
- The rest of the text is actually in a text area: this is because we want to perform word and line wrapping around the Key2 (Line of Business) name that will flood the data fields in the header. If we knew the name would always be the same, we could use text labels to add our lines. But we want both a paragraph, and we know the Line of Business (LOB) may change, so it is best to use text areas instead.
 - Insert a *Text Area* for the first line of the section, the title, inside the box created above.
- Insert a *field in the text area* that links to the LOB field.
 - If you are using and XDD, you would select the XDD rule on the field and click the Source button to retrieve the field name from the XDD. If you are not using the XDD, you can put any field rules in the Rule field, and then the mapping to that data element in the extract file on the Data field. See the Rules Reference for information on data formatting rules.
- Insert a second text area, this one containing the paragraph information. (Note for both text areas, if you plan to use this section in an Entry environment you would want to select the Can Grow and Shrink property for the text areas: this will expand the text field length in an Entry environment as a use types. It is not necessary for a Documaker Server (batch processing) environment.)
 - Insert the LOB field into this second text area paragraph as well.

- The **Medbody1** portion of the section contains two fields, one for Question and one for Answer Details. Insert a *new field* for Question. Use either the XDD or field mapping described earlier.
- Insert a text area with just the Answer/Detail field in it. Again, this is to allow the area to shrink and grow based on the varying length of data for any given transaction's medical answer elements. Again, you can check the Can Grow and Shrink property here in the Text Area Options.
- The Medfoot1 section is composed of fields and text labels that keep track of page number. Insert fields and text labels in the position you want to see this information. Note that FORM PAGE NUM is a reserved field that does not require mapping, but will be generated at print time for your page counts:

Page 1 FORM Page FORM Policy Number POLICYNUMBER KE		16800	12000 144		9600	- 1	7200	• •	1.5		4800		• •	 2400			 1 		1.1	Fp	
COPM Date COPM Deter Number DOLICYNUMPER															1		je	ag	Pa		
Page Port Policy Number Policy Number New Ke	D	KEYID	POLICYNUMBER	Number	Policy			RI	FO	je -	Pa					M	FOR				

Step B:Create custom sized sections

At this point you want to save your original one page section created above. You may check it into the library for use later.

- Click the section name in the Section manager, and then click the Edit, Selection Mode, Area Tool menu option. This tool lets you draw a box around a portion of a section.
- Draw a box around the portion of the section that needs to become Medhead1. When you release the mouse (when you have completed drawing a box), the area you selected will be highlighted in green, and a window will prompt you for section information:

•	TrainingCompany Lif
Ledi	ical history is required for TrainingCompa
Թ Select Area for Section	×
Select Area for Section	
٠	
Action	Create Section
Name	Medhead1 😁
Check In	
Keep Objects	
Horizontal	200 FAPs
Vertical	175 FAPs
Width	17825 FAPs
Height	3100 FAPs
	OK Cancel

- Enter the name of the section (ex Medhead1), and check to keep the objects you've created, and you can also tell it to check it into the library.
- Repeat the above step to create Medbody1 and Medfoot1.

If you look on the General properties for these sections, you will see the size is now Custom.

If you look on the Objects tab for these sections, you should see the list of objects you inserted:

Objects 4	Fp
MEDHEAD1_0000100002_19800101	age 1
0 X 4 Þ † +	
Page 1	TrainingCompany Life and IN: Ma
E Boxes	- Medical history is required for TrainingCompany Life & 📗 to cover
(144, 153)	mandatory for all ages in every state for all persons involved. Give
i⊂ixi Fields	2 diagnoses, dates, physicians, and other medical practitioners. Sho
IND3(7390, 968)	
E Text Areas (525, 910)	
□ (325, 910) □ (100, 150)	

Step C:Finalize your section

You can also perform functions specific to validating a section. None of these are required, but they may be part of your company's workflow when completing new sections. These include:

- Run spell and grammar check.
- Run readability statistics. For more information, see *Readability with Forms and Sections* on page 222.
- Perform data entry check.
- Run validation.
- Print the section.
- Print a section report. For more information, see *Printing a Form, Section, or Paragraph* on page 448.
- **Note** Any examples in this guide usually demonstrate one possible configuration for a given process. In Documaker there are different ways to achieve the same results, and legacy methods are supported in current versions of Studio. If your implementation is set up differently than shown in documentation, but is working, do not alter your current configuration.

ASSIGNING A SECTION BACKGROUND COLOR

In general, the background color of sections is shown white. However, a better explanation is that sections have "no color", since it is the physical paper stock that determines the actual background color.

If desired, sections have a property where you can specify a specific background color and this color will display in entry situations. Choosing to set the property for "Print in Color" will only apply when the output is to PDF. No other print types will honor the background color selection.

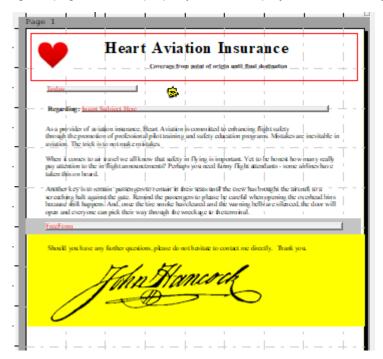
CLOSECONTACT v1.3 1/1/1980 **џ** Fρ Properties Page Section Options -C 🗶 🛨 🔍 🕑 Should you have any further questions, please do not hesitate to contact me directly. Thank you An Hancock . 👻 General • Margins Common margins 0 FAPs Тор 100 FAPs Bottom 0 FAPs Left Right 0 FAPs Page Height 5568 FAPs Width 20400 FAPs Size Custom Can size Orientation Portrait Color default CLOSECONTAC. Eil/

The Color setting appears within the General properties for a section.

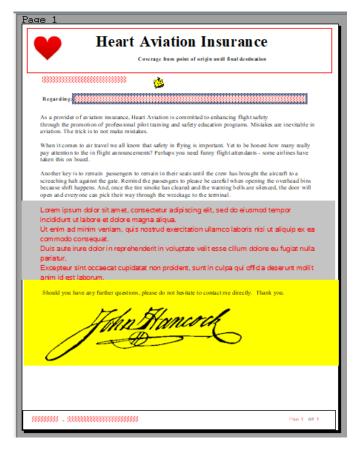
Note that the "default" assignment means that no color is applied – despite any color shown in the color example box. Only when choosing a specific (non-default) color will a background color be active.

	CLOSECONTACT v	1.3 1/1/1980*	
	perties	д	Fp
	ection Options		
G	🛛 🎗 🗘 🔍 🖉		Should you have any further questions, please do not hesitate to contact m e directly. Thank you.
÷	General	-	HI HI .
-	Margins		John Hancock
	Common margins		
	Тор	0 FAPs	
	Bottom	100 FAPs	
	Left	0 FAPs	· · · · · · · · · · · · · · · · · · ·
	Right	0 FAPs	
_	Page	/	
	Height	5568 FAPs	
	Width	20400 FAPs	
	Size	Custom	1
	Can size		
	Orientation	Portrait	
		Auto size	
	Color		
÷	Information		

All sections on a given page have this property and will display based accordingly.



If a section changes size as data maps, the section color property continues to apply.



To have the color shown in a resulting PDF requires also assigning the Print in color attribute on the color selection dialog.

Pr	operties	4	Fp	2400	4800 7200	9600
S	ection Options			Page 1		
) 🗶 🔹 🚯 🥘 General		•	FreeForm		
Ě	Margins					
I.	Common margins					
L .	-	0 FAPs				
L .	Тор					
L .	Bottom	0 FAPs				
L .	Left	0 FAPs				
L .	Right	0 FAPs				
•	Page					
L	Height 1000 FAPs					
	Width	20300 FAPs				
	Size	Custom				
L	Can size			🎮 Color Selection	×	
	Orientation	Portrait		Color Selection	ОК	
Þ		Auto size		 (1) (2) 		
	Color	print		4 9	Cancel	
0	Information			Color Selection	Light grav	l —
	Section rules	0		Print in color	Print in color	Help
۲	Entry			Red	196	
•	Mobile (not installed)		Green	196	-
Г	Omit			Blue	196	
	Context			(196.196.196)]
				Color Select		

Remember, Print in Color only applies to PDF output. No other printer output will honor this background color setting. (Also remember to use the "Send color" option from the Print dialog or via the INI SendColor=Yes setting when desiring color print.)

DAL

Use this procedure/function to assign or change the background color property assigned to a given section on a page.

Syntax:

SetSectionColor (PrefixName, Section, Form, Group)

Parameter	Description	Required?
PrefixName	A prefix name to be associated with the color attributes to set for this section. The sub-attributes are ".red", ".green", ".blue", and ".options" which should be appended to the prefix name.	Yes
Section	The name of an existing section in the form set.	Defaults to current section.
Form	Name of a form within the form set that contains the section.	Defaults to current form.
Group	Name of the form group that contains the form and section.	Defaults to current form group.

This sets the section background color by using the PrefixName parameter to find the associated color attribute values:

prefixName.red prefixName.green prefixName.blue prefixName.options

Document colors are managed by using a RGB (red, green, blue) value combination. Each color component can be in the range of 0 to 255. The combination of the values determines the overall colors. If all color components are set at 0, the color is black. Similarly, if all are set at 255, white is the color. By adjusting the red, green, and blue components, you can create any color in the rainbow.

The ".options" value determines what the section does with your new color assignment.

0 = return the section to have no color value. The red, green, blue attribute values are ignored.

1 = assign the color to be visible when viewing the section.

3 = assign the color to be visible and to also indicate to print this color when creating PDF output.

Example:

Procedure	Result	Explanation
MyColor.red = 128 MyColor.green = 0 MyColor.blue = 0 MyColor.options = 1 SetSectionColor ("MyColor")	Assigned a new color to the section	When the options value is 1, the section color is assigned the red, green, and blue values and this color will be visible when the document is displayed in an entry system.
MyColor.options = 0 SetSectionColor ("MyColor")	Reset the section to no color.	When the options value is 0, the section color is reset to the default – no color.
Bkcolor.red = 128 Bkcolor.green = 128 Bkcolor.blue = 128 Bkcolor.options = 3 SetSectionColor ("bkcolor", "MVF\2", "XYZ")	Assign a color to the section for viewing and to print to PDF.	The second occurrence of the section MVF on the form XYZ is assigned the color values. Options=3 means the color is visible during entry and will also print when Send Color is specified for print.

Take note in the examples how the *prefixName* parameter must be specified as a string value. That is why the parameter has quotes around the prefixed name.

Chapter 7

Creating Paragraph and Paragraphs Lists

Studio Lets you create Paragraph and Paragraph lists. This chapter includes the following topics:

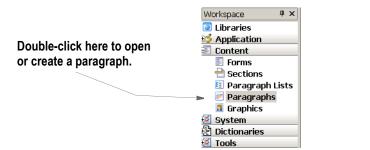
- *Creating Paragraphs* on page 472
- Creating Paragraph Lists on page 478

CREATING PARAGRAPHS

Creating a paragraph (PAR file) is very similar to creating a text area in a section. Like a text area, a paragraph is primarily text. You can insert fields, graphics, line breaks, symbols, and boxes into a paragraph. You can also perform a spell check, grammar check, and generate readability statistics for your paragraphs.

Follow these steps to create a paragraph:

1. Double-click Paragraphs in the Workspace tree.



The Open Files window appears.

2. Select a paragraph from the list or click New to create a paragraph. The Paragraph Options window appears.

Paragraph Option	ns
🗴 📃 🖲 🖀 急	(1)
 General 	
Name	Untitled1
Task Comments	
Information	
History	History
 Default 	
Font ID	24010 Albany AMT 10 PT
Tab stops	600 FAPs
 Accessibility 	
Skip Reading	
Alternate Text	

Use these properties to define the general characteristics of your paragraph:

Property	Description
General	
Name	The name of this paragraph.
Task Comments	Click the ellipsis button to display the Task Comments window and enter any comments you want associated with this paragraph. For instance, you could use this property to enter a to do list of tasks for this paragraph. Your entries appear on the Task List or Finishing Report.

Information

Property	Description
History	Click the History button to display the History window and view any comments. Studio shows you the ID of the user who entered the comments and the date and time the comments were entered. You can also enter new comments.
Default	
Font ID	The Default Font ID is applied to other new paragraphs you create.
Tab Stops	Specify the tab stop interval for this paragraph.
Accessibility	
Skip Reading	If checked on, the paragraph is excluded from being read by assistive technology.
Alternate Text	Enter the alternate text to use.

Once created, you can then add text, fields, boxes, line or paragraph breaks, graphics and symbols to your paragraph.

To delete a field, box, break, graphic, or symbol that has been inserted in the paragraph, use the Delete option on the Edit menu or the right-click menu.

Different icons available in Paragraph Option panel can be summarized as follows:

Prope	Properties		
Para	graph Options		
1	/ 4) 🕖		
🗢 Me	dical Coverage		
Na	me	Medical Coverage	
De	scription		
	bedded		
🗢 Info	omation		
		History	
e 1	Add a paragraph to the Add a trigger to the part		
()	Toggles Information Pa	ne	
۲	Documaker Studio Help	0	

INSERTING FIELDS IN PARAGRAPHS

Use the Insert, Field option or click the Insert icon in the Paragraph Options area to add a field. Once you insert a field, Studio shows you that field's properties. These properties are the same as those for a field in a section with one exception, a field in a paragraph has this additional property. Fields in a text area in a section also have the Represent With property.

Property	Description
Represent With	Enter the characters you want to use to fill the field until the system adds the actual field data.

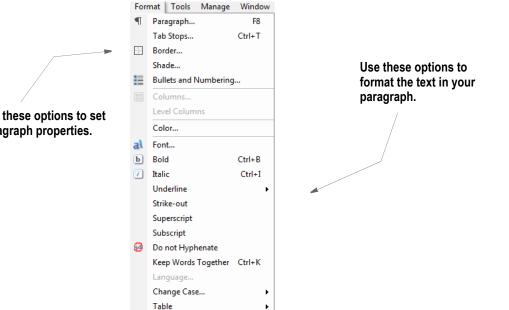
Note You cannot insert bar code and multiline text fields into a paragraph.

> To modify field properties, place your cursor on the field and then make any necessary changes to the properties.

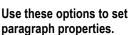
Note If a Field that is in the XDD is used in a paragraph (*.PAR) file, this Field will only be populated if it is already used somewhere else in the transaction.

FORMATTING PARAGRAPHS

To further define your paragraph, Studio provides a number of properties that let you control how paragraphs appears and prints. To set these properties, Choose Format, Paragraph.



Whether you choose the Paragraph, Tab Stops, Border, Shade, or Bullets and Numbering property, the Paragraph Properties window appears. All of these properties are available from the tabs on this window.



Use these properties to define how the paragraph displays and prints.

-

Paragraph Tab stops Border Shade Bullets		
Paragraph properties	;	
G X 9 0		
General		
Alignment	Left	
Level	0	
Direction	Left-to-right	
Indentation		
Left	0 FAPs	
Right	0 FAPs	
Special	None	
Ву	0 FAPs	
Spacing		
Before paragraph	0 FAPs	
After paragraph	0 FAPs	
Line Spacing		
Spacing	Single	
Туре	Custom	
Amount	0 FAPs	
Line Breaks		
Hyphenation	None	
Do not break		
 Edits 		

These paragraph properties are presented on the following tabs:

Tab	For more information, see
Paragraph	Defining Paragraph Properties on page 476.
Tab Stops	Defining Tab Stops on page 355.
Border	Defining Border Properties on page 356.
Shade	Defining Shade Properties on page 357.
Bullets	Defining Bullet Properties on page 357.

Note For those properties where you are entering an amount of space, your entry will be in the unit of measure you chose for the Measurement option (see Manage, System, Settings, Common/Document View). For instance, if you chose FAP units (2400 per inch) and you want to right indent.25 inches, you would enter 600.

Defining Paragraph Properties

Use these properties on the Paragraph tab to define the paragraph layout.

Paragraph Tab stops Border Shade Bullets		
aragraph properties		
) X () 🕖		
General		
Alignment	Left	
Level	0	
Direction	U Left-to-right	
Indentation	Lentongrit	
Left	0 FAPs	
Right	0 FAPs	
Special	None	
By	0 FAPs	
-	UFAPS	
Spacing	0 FAPs	
Before paragraph	0 FAPs	
After paragraph Line Spacing	UFAPS	
	CirI	
Spacing	Single	
Type Amount	0 FAPs	
Amount Line Breaks	U FAPs	
Hyphenation	None	
Do not break		
Edits No user edit		

Property	Description
General	
Alignment	Choose from Left, Right, Centered, or Left and Right to set the paragraph alignment.
Level	Choose a paragraph level value of 1-9 to have the text of this paragraph appear in the table of contents generated for a transaction. See <i>Adding Bookmarks</i> on page 317 for more information on table of contents. Choose a level of 0 to indicate that the paragraph text will not appear in the table of contents. If a level 1-9 is specified, the text of the paragraph that appears in the table of contents entry is limited to a length of 512 characters. Paragraphs without text will not appear in the table of contents. The paragraph properties associated with an Index level will reformat the text when assigned into the table of contents. Tab positions within the paragraph text will be converted to spaces when inserted as an entry in the table of contents.
Direction	The default Direction setting is left-to-right. To change the Direction setting for right-to-left languages (Urdu, Arabic, etc): 1. Select Format from the Paragraph menu or Paragraph, Format from the right click menu. 2. Paragraph properties - change the direction parameter to "right-to-left".
Indentation	
Left	Enter the amount of space you want to indent from the left.

Property	Description
Right	Enter the amount of space you want to indent from the right.
Special	Choose from these options: None, First Line, or Hanging.
Ву	Enter the amount of indentation to apply to First Line or Hanging.
Spacing	
Before Paragraph	Enter the amount of space you want before the paragraph.
After Paragraph	Enter the amount of space you want after the paragraph.
Line Spacing	
Spacing	Choose from these options: Single, Double, Exactly, At Least, Multiple.
Туре	Choose from these options: Lines Per Inch or Custom.
Amount	Enter the amount to complete your line spacing choice.
Line Breaks	
Hyphenate	Check this box to turn on automatic hyphenation.
Language	Select the language to use for spelling checks and hyphenation.
Do Not Break	Check this box to keep paragraph lines together.
Edits	
No User Edit	Check this box to prevent users from editing the content when it is imported.

Click OK to save your entries or Cancel to exit without making changes.

CREATING PARAGRAPH LISTS

Studio lets you create a list of paragraphs (PSL file) which lists all of the paragraphs from which either a Documaker Interactive/WipEdit user, Documaker Desktop user or Documaker Server can select at processing time. You insert this paragraph list into a multiline text field on a section.

Follow these steps to create a paragraph list:

1. Double-click Paragraph Lists in the Workspace tree.

	Workspace # ×
Double-click here to open	💽 Libraries
or create a paragraph list.	😼 Application
or create a paragraph list.	🖅 Content
	🗾 Forms
	岩 Sections
	Paragraph Lists
	🐖 Paragraphs
	Graphics
	🕺 System
	🔁 Dictionaries
	🕺 Tools

The Open Files window appears.

2. Select a paragraph list from the list or click New to create a paragraph list. The Paragraph Options window appears.

Click here to add a	E FORLib\NewList.psl*	$\lor \lor x$
paragraph to the list.	Paragraph Lists 📮 🌴	0
	NewList Page 1	
	-> 🗁 🥖 🦊 🕀 🦊	naph.
	ThewList It includes several	lines of text.
		an anythin <mark>PHONE</mark> g. A Cane logo, as shown here:
/	ACME	Rome logo, as shown here.
Click here to add a	FIOINIL	
	Properties 4	
trigger.	Paragraph Section Options	
	m / 0 0	
	▼ NEWPARA	
	Name NEWPARA	
	Description	
	✓ Information	
	History	
	Clistethe Add Demonstrate add a new and	
	3. Click the Add Paragraph icon to add a paragraph	-
	paragraph, Studio shows you that paragraph and	displays its properties. You can
	change the name and description if necessary.	
	Click the History button to view or add information	tion about the paragraph.
Note	Your entries in the Name and Description fields appear	to the Documaker Deskton user
		-
<u> </u>	during data entry to help that user choose which parag	
	4. Once you add all the applicable paragraphs to yo	our list, choose the File, Check
	In option to add the paragraph list to the library.	You can also choose File. Save
	to save your list if you are not yet ready to check	
	to save your list if you are not yet ready to chech	x 1t 111.

aragraph Li	sts	Р	
Untitled4			
e 🗲 🗶	☆ ↓		
Untitled4			
	cal Coverage		
🖭 Denta	il Coverage		
e	Add a paragraph to the paragraph list		
1	Add a trigger to the selected paragraph		
×	Delete the selected paragraph		
1	Moves the selected paragraph up in the lis	t of pa	ragr
ŀ.	Moves the selected paragraph down in the	list of	para

The various icons available in Paragraph list panel can be summarized as follows:

For more information on Paragraph and Paragraph Selection functionality, please refer to the topic *Paragraph options* on page 410.

Chapter 8

Using Library Project Management

Library Project Management (LPM) is an optional feature of Studio that provides you with a workflow for managing the development and distribution of library resources related to a project.

This chapter explains the LPM process and includes the following topics:

- Understanding LPM Concepts on page 482
- Setting Up Library Project Management on page 486
- Using the Projects Manager on page 499
- Example Library Project Management Workflow on page 504
- Using the Project Status Report on page 514

OVERVIEW

Library Project Management (LPM) provides a structured workflow for managing resources:

- In the LPM workflow, users are assigned one or more *roles* that correspond to the different stages of the resource development life cycle (development, test, production).
- The LPM workflow uses the current *tier*, *mode*, and *status* of each resource to determine its overall *state*.
- The state controls what *actions* a user can perform on the resource based on the roles that the user has been assigned.
- The action performed by a user moves the resources through the library tiers which represent the different stages of the resource development life cycle.

The Projects manager is a central facility for creating new projects and modifying the state of project resources. During the development process the Projects manager is used to organize library resources by project, and advance the resources through the tiers by managing the state of the library resource.

5	LPM_DEV							-
F	ilter/Search	4	9				3	3 of 3
0	Filter			Name	Type	Description	Project	1
1	10 () (d)		FOO	TERSECTION	FAP	Initial check in.	P001	
2	Filter Values	1.	HE	DERSECTION	FAP	Initial check in.	P001	
F	Project	P001	MY	FIFTHSECTION	FAP	Initial check in.	P001	
	Tasks	Developer	1					
	Filter / Search	Filter Now						
	1							
-	ctions	4						
	Actions							
6	0.0							
ŀ	Resource Proper	ties	1					
	Name	MYFIFTHSECTION						
	Туре	FAP						
	Version	00001						
	Revision	00004						
	Description	Initial check in.						
	Mode	Development						
	Status	Failed						
		Check out						
		Edit						
		Resolve						

UNDERSTANDING LPM CONCEPTS

Before you begin using LPM, there are some concepts you need to understand.

WHAT IS A ROLE?

The roles a user is assigned determine what actions they can perform on a resource as it moves through the LPM workflow. There are four *roles* in the LPM process:

- **Developer** the developer is responsible for creating and editing resources.
- **Reviewer** the reviewer is responsible for the initial approval of a resource in each of the tiers prior to it entering the next testing phase.
- Tester the tester is responsible for verifying that a resource functions properly.
- Administrator the administrator is responsible for overall coordination of the project as well as promoting resources to the next tier.

Use the Settings option on the Manage, System menu to assign roles to a user. See *Assigning Project Roles and Permissions to Users* on page 488 for more information.

WHAT IS A TIER?

The *tier* of a library represents a separate physical library repository corresponding to a logical phase in the development process. There are five library tiers in the LPM process:

- Development in which developers create and modify resources.
- Unit Test in which testers test individual resources.
- System Test in which testers perform integration testing of all resources for a project or release.
- **Model Office** in which testers perform final user acceptance testing of all resources.
- **Production** in which consumer documents are produced.

Use the Settings option on the Manage, System menu to define the library tiers. See *Defining Library Tiers* on page 493 for more information.

WHAT IS A MODE?

The mode categorizes a resource within a tier and helps to identify what actions can be performed on the resource. Mode parallels the role of the user that has access to the resource to perform the next action.

When Project Management is turned on, Studio defaults to standard Mode and Project items (i.e., the items you see in the Mode and Project pick lists).

ilter/Search				
Actions	ctions			
Actions				
 Resource Prope 	erties			
Name	MYTHIRDSECTION			
Туре	FAP			
Version	00001			
Revision	00016			
Description	Initial check in.			
Mode	Review			
Status	Submined			
	Check out			
	Edit			

LPM defines these modes:

- **Development** indicates that development work is needed or in process within the development tier.
- **Testing** shows that testing is needed or in process within one of the testing tiers.
- **Review** indicates that a review is needed or in process within any of the preproduction tiers.
- Administration indicates that the resource is ready for promotion to the next tier.
- **Production** is the final mode, no further action is permitted using LPM.

WHAT IS AN ACTION?

An action is something that a user within a specific role does to a resource when it is assigned a certain mode within a given tier. Actions change the status of a resource and correspond to normal development lifecycle activities.

Filter/Search	
Actions	
Actions	
۰) 🥹	
 Resource Prope 	rties
Name	MYTHIRDSECTION
Туре	FAP
Version	00001
Revision	00016
Description	Initial check in.
Mode	Review
Status	Submitted
	Check out
	Edit

WHAT IS THE STATUS?

The status is an indicator of the last action performed on a resource. An action performed on a resource within LPM changes its status to indicate that the action has been performed.

Filter/Search	Ą
Actions	ą
Actions	
•) 🕑	
 Resource Prope 	rties
Name	MYTHIRDSECTION
Туре	FAP
Version	00001
Revision	00016
Description	Initial check in.
Mode	Review
Otonus	Guistinited
	Check out
	Edit

WHAT IS THE STATE?

The current state of a resource is comprised of its current operational tier, mode, and status. The state determines what roles have access to a resource and what actions can be performed on it. A resource's state is used to precisely identify its position within the project management workflow.

SETTING UP LIBRARY PROJECT MANAGEMENT

You must perform the following tasks to enable Library Project Management in Studio:

- Enable a workspace to use LPM
- Assign roles and permissions to the user
- Define a project
- Define the library tiers
- Promote resources to the new tiers

ENABLING A WORKSPACE TO USE LPM

Library Project Management can be enabled for new and existing workspaces.

Enabling an Existing Workspace to Use LPM

- 1. From the menu, select File, Open Workspace to open an existing workspace.
- 2. Select Manage, System, Settings from the menu. The Settings window opens.
- 3. Under Studio Settings in the left pane, select Workspace Information. The following window appears.

🐢 LPM (DEV - Development) - D	Documaker Studio - Settings		- 🗆 🗙
Arcsplt Common Database	Workspace Information		
Development Tools Entry Import and Export Ubraries Ubraries Ubraries Ubrary Project Man Print Resource Path Set. Rules Processing WP Options by group Studio Settings Configuration Options Workspace Information Common / Document \ Forms Sections Graphics Triggers HTML Printstream Analyzer V	Shared Workspace Enable Dictionary-Rule Manager Enable Help Table Manager DXM File C:\FAP/DLL\LPM\LPM.dxm DXS File C:\FAP/DLL\LPM\LPM.DXS FSI User File (FSIUSER.IN) C:\FAP/DLL\LPM\/sixser.ini FSI System File (FSISYS.INI) C:\FAP/DLL\LPM\/sixss.ini Phojects Workspace		
		OK Cano	el Help

- 4. Check the Projects Workspace option at the bottom of the window.
- 5. Select Ok to apply your changes and to close the window.

Enabling a New Workspace to Use LPM

- 1. Follow the steps in *Creating a New Workspace* on page 47 to create a new workspace.
- 2. At the Import Resources window, check the Enable Project Management option.

Note The Enable Project Management option is available for both methods of workspace creation.

port Resources				1
Choose the Type of Work:	space Creatior			
C Create a new works	pace without im	port		
Import resources from	m an existing loc	ation		
Enable Project Manager	nent			
Directory:				1
INI file:				1
	< Back	Next>	Cancel	Help
	(DBCK	NEX >	Cancel	Help

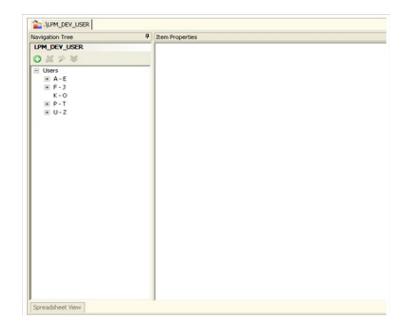
3. Continue with the workspace creation.

Assigning Project Roles and Permissions to Users

A project role classifies a user and provides that user with the ability to perform specific actions on a resource within LPM that is associated with the role. Users may be assigned any combination of roles. In addition, you can assign one or more specific project-related permissions.

To assign roles and permissions to a user, follow these steps:

1. Select Manage, System, Users. The window below opens.



2. Expand the list in the left pane and select a user. The following window appears in the right pane.

Navigation Tree	Item Properties	ą
LPM_DEV_USER		
0 # 🕫 🖌		
Users A - E	User ID:	USER1
 ₩ F - J K - O ₩ P - T ₩ U - Z USER1 	Uper Name:	
	Message.	
	Report To:	DODUMAKER
	Workstation Rights:	9
	In Use:	N
	Pacoword.	Change Password
	Security	Y Configure

3. Select the Configure button. The Security wizard opens.

ystem Administrator ser	40.00	OK
ettings brary esources		Cancel
ights ojects		Apply Al

4. Select Projects in the left pane to display the list of roles and permissions in the right pane.

System Administrator User Settings	Projects	ОК
Library Resources Resources Projects	Project Administrator Project Developer Project Tester Project Reviewer Project Promotion Project Outside	Cancel

5. Assign the user any combination of roles and permissions. You can choose from these project roles:

Role	Description
Project Administrator	A Project Administrator is responsible for overall coordination of the project as well as promoting resources to the next tier. Users may setup projects, run status reports, and promote resources for a project from one tier to the next to advance the project.
Project Developer	The Project Developer is responsible for creating and editing resources. A Project Developer performs authoring duties such as DAL scripting, resource (section, form, etc.) creation and modifications; tasks which are traditionally associated with resource development.
Project Tester	A Project Tester is responsible for verifying that a resource functions properly. Users may perform unit testing on individual resources, system testing on an entire project, or user acceptance testing prior to production deployment.
Project Reviewer	A Project Reviewer is responsible for the initial approval of a resource in each of the tiers prior to it moving to the next phase of the project. Users may review the asset for corporate development compliance, project appropriateness, or any other non-test related aspect of each resource.

In addition, there are also these project permissions:

Permission	Description
Project Promotion	Provides the user with permission to promote project resources.
Project Outside	Gives the user permission to work outside of defined projects.

6. Click Ok to close the window and apply the settings.

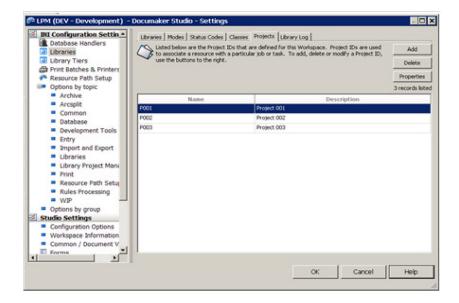
DEFINING PROJECTS

The following section describes the three available methods for defining a project.

```
Note We strongly recommend that you use Option 1 as your primary method for defining a project. Options 2 and 3 are provided as alternatives.
```

Option 1

- 1. Select Manage, System, Settings to open the Settings window.
- 2. Under INI Configuration Settings select Libraries. The Libraries window will open in the right pane.
- 3. Select the Projects tab to open the window below.



4. Use the Add button to create a project. Projects are defined by a name and description and entered into the window using *name;description*.

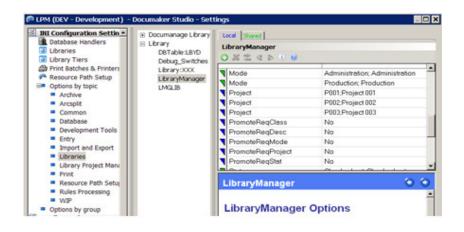
* Add Project - step	1 of 1			
Enter a Project Name	and Description.			
Project Name and I	Description			
• •				
•				
Name				
Description				
	< Back	Finish	Cancel	Help

Field	Description
Name	Project names can be a maximum of 25 characters. All characters are valid but are limited to ANSI character set.
Description	Descriptions can be a maximum of 101 characters.

5. Click Finish to create the project.

Option 2

- 1. Select Manage, System, Settings to open the Settings window.
- 2. Under INI Configuration Settings select Options by Topic, Libraries.
- 3. In the center pane expand the Library node and click LibraryManager.



4. Click the green button on the toolbar or select the Add Option from the right click menu to open the Add Configuration Option window.

Mode	Production; Production
Project	P001;Project 001
Project	P002:Project 002
Project	P003;Project 003
PromotoRonClace	No
p LibraryManager	

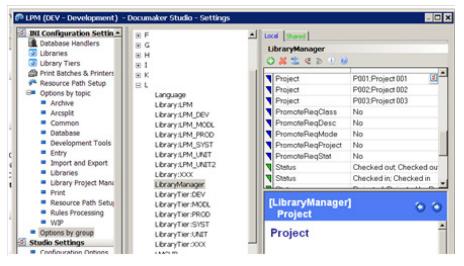
5. Make these entries in the following fields:

Field	Description
Option	Enter Project
Value	Enter the <i>name;description. Here is an</i> example: P004; Project 004

6. Click Ok to create the project.

Option 3

- 1. Select Manage, System, Settings to open the Settings window.
- 2. Under INI Configuration Settings select Options by Group.
- 3. In the center pane expand the L node and select LibraryManager. The list of Library manager options shown in Option 2 will appear.



4. Follow the instructions in Options 2 starting with step 4 to add a new project to the system.

DEFINING LIBRARY TIERS

A tier represents a separate physical library that is used to store resources within each logical phase in the development process. Each tier reflects a different stage of resource development. LPM has these categories of tiers:

Tier	Purpose
Development (DEV)	Developers create and modify resources.
Unit Test (UNIT)	Testers test individual resources.
System Test (SYST)	Testers perform integration testing of all resources for a project or a release.
Model Office (MODL)	Testers perform final user acceptance testing.
Production (PROD)	This tier is used to produce consumer documents.

Follow these steps to define library tiers:

- 1. Select Manage, System, Settings from the menu to open the Settings window.
- 2. Select Library Tiers in the left pane. The following window appears.

Bil Configuration Settix *	E Ters			Consta Terr
Database Handlers	Development			Create Tier
Libraries	001 - Development			Delete Lier
Librarviss Librarviss Library Tiers Library Tiers Resource Path Setup Options by topic Archive Archive Archive Archive Common Database Development Tools Entry Ingort and Export Librarvis Librarvis Librarvy Project Mar Print Resource Path Setu Rules Processing VgP Options by group Stadio Settings Comportion Options	01 - Development - Unit test - System test - Model Office - Production			Properties
 Workspace Information 				
Common / Document	1			
· [
		OK	Cancel	Help

Note You can create as many tiers within each category as you want. Within each category, however, you can only designate one tier as the primary (001) tier for that category. The primary tier for the Development category (001 - Development) is already defined when you first arrive at this window. This tier cannot be deleted.

Note that you do not have to use every category. For instance, you could skip Model Office or Unit Test, though we recommend that you thoroughly test resources before you place them into production.

3. Click the Create Tier button. The following window opens:

Type:	Unittest
Path:	C:\FAP\DLL\
Tier Location: Name/Description:	C:\FAP\DLL\LPM_UNIT
and a second second	

4. Enter the following information:

Option	Description
Туре	Click on the list in the Type field to select the tier type (Unit Test, System Test, Model Office, Production).
Path	Select the base path for the tier. Enter it manually or click on the column and use the ellipses to browse for and select the directory. The path automatically defaults to the directory where you installed Studio, such as c:\fap\dll.
Tier Location	This field is automatically populated with a combination of the tier path and tier name. You cannot edit it directly but you can change it by selecting a new path in the Path field.
Name/Description	This is the name for the tier. It defaults to the workspace name suffixed by the selected tier type, but you can give it another name if desired.

5. Select Next. The Database Connection window opens.

atabase Connection	2
1) 0	
 Database Connector 	
Library Name	LPM_UNIT
Library Description	
 Settings 	
Connection Type	JDBC
Database Type	Oracle
Database Name	
Database Schema	
JDBC Host	
JDBC Port Number	
JDBC Driver Class	oracle jdbc.Oracle Driver
JDBC URL	jdbc:oracle:thin:@ <host>:<port number="">:<database name=""></database></port></host>
Enable JNDI	
Enable Tracing	
User Name	
Password	
Catalog Name	LPM_UNITC
Log File Name	LPM_UNITL
Data Table Name	LPM_UNITD
Index Table Name	LPM_UNIT
Generate DDL's	Generate DDL's

Library Name	LPM_UNIT
Library Description	
Settings	
Connection Type	ODBC
ODBC Data Source	
Database Type	
Database Schema	
Enable Tracing	
User Name	
Password	
Catalog Name	LPM_UNITC
Log File Name	LPM_UNITL
Data Table Name	LPM_UNITD
Index Table Name	LPM_UNIT
Generate DDL's	Generate DDL's

6. Specify the ODBC connection and library name for the tier. The following table describes the settings in this window.

Option	Description
Database Connector	
Library Name	The default library name is the tier name. You cannot change this name on this window.
Library Description	Optional. Enter a description of the library.
Settings	
Connection Type	The technology used for connecting to the database. Choices are JDBC (Java Database Connectivity) and ODBC (Open Database Connectivity). Note: The Default connection type is JDBC.
ODBC Data Source	Click the ellipses in this setting to select a Data Source name. You are then prompted to enter Oracle ODBC Driver Connect information. Note: ODBC Data Source option is available only if the Connection Type selected is ODBC.
Database Type	 Select the database type from the drop-down list to open the JDBC connections dialog. You can select from the following available options: DB2 for Linux, Unix and Windows Microsoft SQL Server Oracle Other

Option	Description
Database Name	The name of the database that is being connected to. Note : The Database name field does not display when the Database Type is selected as Other.
Database Schema	The name of the Database schema.
JDBC Host	The name or the TCP/IP address of the server machine where the database server is running.
JDBC Port Number	The port number on the server machine that the database server is listening to for connections.
JDBC Driver Class	The Java class name of the JDBC driver being used (for example, oracle.jdbc.OracleDriver). The wizard will provide defaults for supported databases types.
JDBC URL	The connection string used by the user's JDBC driver. When the database type is one that is known, the wizard will supply a default URL based on the information provided by the user.
Enable JNDI	When this box is checked, the configuration information is stored in a JNDI.bindings file instead of in the INI file. This is not enabled by default. If checked, specify the JNDI Name and JNDI Context (location of binding file).
JNDI Name	The connection name for storing the connection information in the JNDI.bindings file.
JNDI Context	The folder where the JNDI.bindings file is located. Clicking the button in this field opens a dialog that can be used to browse for the folder.
Enable Tracing	Check this box to enable tracing. Tracing can help in monitoring and analyzing the Documaker application as it is running against the database.
User Name	The user name for the ODBC Data Source. This option is filled in for you when you select the ODBC Data Source.
Password	The password for the ODBC Data Source. The password is filled in for you when you enter the password on the ODBC Driver Connect window. The password appears as asterisks (***).
Catalog Name	The catalog table name defaults as your tier name, plus the suffix qualifier of C.
Log File Name	The log file name defaults as your tier name, plus the suffix qualifier of L.
Data Table Name	The data table name defaults as your tier name, plus the suffix qualifier of <i>D</i> .
Index Table Name	The index table name defaults as your tier name.
Generate DDLs	Selecting this option opens a window with the SQL commands used to create the tables. If your database administrator has restricted the creation of tables, confirm the table names you want to use then highlight the text and press Ctrl+C to copy it to your clipboard. You can then paste the information into an email or a text file to give to your database administrator. Note: You will not be able to proceed past this page if the tables are not created.

7. Click Finish. You will be returned to the main window where the tier you just created will appear in the list. Note that the newly created library tier is prefixed in the list with 001, designating it as the primary library tier for that category.

PLPM (DEV - Development)	- Documaker Studio - Settings	- O ×
INI Configuration Settix * Detabase Handlers Ubraries Ubrary Tiers Print Batches & Printer Resource Path Setup Options by topic Arcsplit Common Database Development Tools Entry Import and Export Ubrary Project Man Print Resource Path Setu Rules Processing WyP Options by group Studio Settings Configuration Options Workspace Information	Ters Povelopment Overlapment Unit test Overlapment System test Model office Production	Create Tier Defete Tier Properties
	OK Cancel	Неір

- 8. Repeat the previous steps to define the other library tiers as needed. Then click Ok to close the wizard.
- **Note** When you create a new workspace, you have the option of selecting the library type either Enterprise Edition or Standard Edition. Any tier you create will this be created with the same "style: as the Development tier..

PROMOTING RESOURCES TO NEW TIERS

Once the tiers have been defined you must promote resources to the new tiers using the Library manager. You should promote basic resources such as the BDF and XDD files as well as any other resources that are expected to be tested in the new tiers.

Refer to *Promoting Resources* on page 618 for a complete description of the promotion process.

USING THE PROJECTS MANAGER

The Projects manager is the main interface for managing resources through the library tiers. To open the Projects manager, select Manage, Projects from the menu.

Important If you want to strictly adhere to the LPM approach, only perform actions on resources within the Projects manager. Managing resources outside of Projects manager with a tool such as Library manager can result in the status and mode combinations of resources becoming undefined, thereby making the resources unusable by the Projects manager. Only administrators should use the Library manager for other functionality.

_	tions Actions	9
	9 🥹	
Ţ	Resource Prope	rties
	Name	MYTHIRDSECTION
	Туре	FAP
	Version	00001
	Revision	00016
	Description	Initial check in.
	Mode	Development
	Status	Checked out
1		Unlock
		Check in
		Edit

Filter/Search	
Filter	
no 10 10	
 Filter Values 	
Project	(ary)
Tasks	Develop
Filter / Search	Filter No
Filtering To make it easi	ier to work
To make it easi resources, you Actions Actions	can apply a
To make it easi resources, you Actions Actions	can apply a
To make it easi resources, you Actions () () Resource Propertie	can apply a
To make it easi resources, you Actions 1) 10 Resource Propertie Name	can apply a
To make it easi resources, you Actions Actions Resource Propertie Name Type	symbol Stymbol
To make it easi resources, you Actions Actions Resource Propertie Name Type Version	symBoL 20001
To make it easi resources, you Actions Actions Besource Propertie Name Type Version Revision	Can apply a
To make it easi resources, you Actions Actions Besource Propertie Name Type Version Revision Description	sa apply a

USING THE FILTER OPTION

Use the filter option to view a list of resources by project and role. In the Filter section, select a project and role from the lists and then click the Filter Now button. The pane on the right displays a filtered list of the resources that require action by the selected role. This filtered set of resources serves as an action list for the user.

The number of tasks the user can access depends on the

assigned to them. For example, if the user is not a System Administrator for the workspace and has been assigned the project right of Project Development, the user would only see a task of Developer. The user would not see the other task items of Administrator, Reviewer, or Tester.

Filter/Search		9				
Filter			Name	Type	Description	Project
n () 😥			FOOTERSECT	FAP	Initial check in.	P001
 Filter Values 			HEADERSECT	FAP	Initial check in.	P001
Project	P001		MYFIRSTSECT		Initial check in.	P001
Tasks	Developer	-	MYSECONDSE	FAP	Initial check in.	P001
Filter / Search	Administrator Developer Reviewer Tester	-	MYTHIRDSECT	FAP	Initial check in.	P001

USING THE ACTIONS OPTION

The Actions pane shows the resource properties for a selected resource as well as the mode and status of the resource.

The following table describes the resource properties:

Property	Description
Name	The name of the selected resource.
Туре	The type of the selected resource.
Version	The version of the selected resource.
Revision	The revision of the selected resource.
Description	Enter a description of the resource. The description entered is applied to that resource when the action is performed. For example, if you are a Reviewer, you might enter a description on a resource that you then Approve.
Mode	See <i>Mode</i> for an explanation of this value.
Status	See Status on page 501 for an explanation of this value.

Mode

The *mode* categorizes a resource within a tier and helps to identify what actions can be performed on the resource. The mode corresponds to the role of the user that has access to the resource. LPM defines these modes:

Mode	Description
Development	Indicates that development work is needed or in process within the development tier.
Testing	Shows that testing is needed or in process within one of the testing tiers.
Review	Indicates that a review is needed or in process within any of the pre-production tiers.
Administration	Indicates that the resource is ready for promotion to the next tier.
Production	This is the final mode, no further action is permitted using LPM

Status

After an action has been performed, the status of the resource is changed to reflect that action. Status indicates the most recent action performed on a resource.

Filter/Search		4			
Actions		Name	Type	Description	Project
Actions		FOOTERSEC	TIFAP	Initial check in.	P001
• •		HEADERSEC	TIFAP	Initial check in.	P001
	1	MYFIRSTSEC	TFAP	Initial check in.	P001
 Resource Propertie 		MYSECONDS	E FAP	Initial check in.	P001
Name	MYTHIRDSECTION	MYTHIRDSE	CT FAP	Initial check in.	P001
Туре	FAP				
Version	00001				
Revision	00016				
Description	Initial check in.				
Mode	Review				
Status	Submitted				
	Check out				
	Edit				

LPM defines the following statuses:

- Checked out
- Checked in
- Resolved
- Submitted
- Passed
- Failed
- Approved

- Rejected
- Promoted

Action Buttons

The buttons on the Actions pane allow you to perform an action on a resource. These buttons are specific to the state of the resource and the user's role. Each time you perform an action on a resource, the state of the resource changes and the available actions buttons change as a result.

Filter/Search	ą				
Actions	ą	Name	Type	Description	Project
Actions		FOOTERSECT	FAP	Initial check in.	P001
(1) (2)		HEADERSECT	FAP	Initial check in.	P001
		MYFIRSTSECT	FAP	Initial check in.	P001
Resource Prope		MYSECONDSE	FAP	Initial check in.	P001
Name	MYFIRSTSECTION	MYTHIRDSECT	FAP	Initial check in.	P001
Type	FAP				
Version	00001				
Revision	00014				
Description	Initial check in.				
Mode	Development				
Status	Rejected	1			
	Check out	П			
	Edit				
	Resolve				

Note The status and mode along with the current tier defines the *state* of the selected resource. The state determines what roles have access to a resource and what actions can be performed on it. Each time the user performs an action the state changes.

Role	Action	Description
Developer	Edit	Edit checks out the selected resource if it is not already checked out and opens the resource in the appropriate editor.
	Check out	A resource must be checked out by a developer before it can be worked upon.
	Check in	Once a developer completes work on a resource it must be checked in before subsequent actions can occur.
	Unlock	If a developer is unsatisfied with and chooses to discard the work completed on a resource it can be unlocked to avoid a check in of undesirable changes.
	Resolve	If a resource is rejected by a tester, but the reported issue is determined not to exist then the developer can resolve the failure without additional changes or check in.
	Submit	When the developer is satisfied with a resource they first check it into the library and then submit it for further processing within the LPM flow. By submitting a resource the developer makes it available for review by the reviewer.
Reviewer	Approve	If a reviewer determines that a resource is appropriate they approve it. The approve action causes the resource to be available for testing by testers.
	Reject	If a reviewer is not satisfied with a resource they reject it. The reject action causes the resource to be made available for further work by developers.
Tester	Pass	If a resource passes all tests performed by the tester then the tester uses the Pass action to cause the resource to be made available for promotion to the next tier.
	Fail	If a resource does not pass all tests then the tester uses the Reject action to cause the resource to be available for further work by developers.
Administrator	Promote	Administrators use the promote action to move a resource to the next tier. Following a promotion the resource is available for review within the next tier with the exception of a promotion to production which requires no further review.

LPM defines the following actions for each role:

🚰 Check In		×
Name:	MYFIRSTSECTION	
Description:		=
Version:	00001 Encrement version	
Revision:	00001	
Effective date:	1/ 1/1980	-
Mode:	Development	•
Status:		•
Class:		-
Project:	P001	•
	F Remove original file from disk	
	OK Cancel	
		11.

EXAMPLE LIBRARY PROJECT MANAGEMENT WORKFLOW

This example follows a resource as it moves through the Library Project Management workflow.

Phase 1: Developer's Role

1. The project developer initially creates a resource. For example, select File, New Sections to create a section.



2. One you save the section, from the menu select File, Check In to perform a check in. The Check In window opens.

- 3. On the Check In window:
 - **a.** Assign the resource to a project.
 - **b.** Set the mode to Development.
 - **c.** Set the status to Checked in.
 - d. Click Ok.
- 4. From the menu select Manage, Projects to open the Projects manager. If the resource you created in the previous steps does not appear in the pane on the right:
 - **a.** In the Filter section select the project you assigned the resource to in the Project list.
 - b. Select Developer from the Task list.

Ø 1	rainingCompany (C)EV - Development) - Doc	umaker Studio - [TR/	AININGCOMP	ANY_DEV]	
E Fi	le Edit View Pro	ojects Manage Window	Help			
1	2 🔛 🔛 😂 🖸		0 9			
1	C TRAININGCOMPA	NY_DEV				
II. Fields	Filter/Search		4			
d\$	Filter		Name	Type	Description	Project
05	(2) ⊕ (2)		1STSECTION	FAP	Description	P001
m	 Filter Values 					
Extract	Project	P001				
	Tasks	Reviewer				
3	Filter / Search	Filter Now				
Nav			-			
Navigation	Actions		4			
ion	Actions					
	• •		_			
G Scripts	· Resource Prope	rties	-11			
npt	Name	HEADER				
45	Туре	FAP				
	Version	00001				
	Revision	00001				
	Description					
	Mode	Review				
	Status	Submitted				
		Approve				
		Reject				

c. Click Filter Now. The resource appears in the right pane.

_		- Development) - Docu		RAININGCOMP	WY_DEV]	
		s Manage Window I				
	은 🕼 🖽 🕾 🔯 🖬	+858 00	9 4			
21	TRAININGCOMPANY_)EV				
Fields	iter/Search	ą				
8 F	Filter		Name	Tree	Description	Project
20			1STSECTION	FAP	Description	Project
× -				1.2		11001
Extract	Filter Values	D001				
ă.	Project	P001				
	Tasks	Developer				
Navigation	Filter / Search	Filter Now	4			
a 🔽	ctions Actions		1			
in t			1			
	Resource Properties	1STSECTION				
	Type	FAP				
	Version	00001				
	Revision	00001				
		00001				
	Revision Description					
	Revision Description Mode	00001 Development				
	Revision Description Mode	00001 Development Checked in				

5. Select the resource you just created in the pane on the right and select Submit.

P	TrainingCompany (D	EV - Development) - D	ocumaker	Studio - [TRA	ININGCOMP.	ANY_DEV]	
F	ile Edit View Pro	jects Manage Windov	w Help				
1 🗖	1 🗈 🥴 🖩 😂 🗔	🔤 🔸 🖻 🖻 🖻 🔊	12 0 0				
	C TRAININGCOMPA	NY_DEV					
Fields	Filter/Search		4				
d,	Filter			Name	Type	Description	Project
6	(N) (P) (D)		15	TSECTION	FAP	Description	P001
🙋 Extract	▼ Filter Values						
trac	Project	P001					
	Tasks	Administrator					
ತ	Filter / Search	Filter Now					
Navigation	ļ						
gati	Actions		4				
9	Actions						
3	۰ ک						
C Scripts	 Resource Proper 	ties					
inpt	Name	1STSECTION					
60	Type	FAP					
	Version	00001					
	Revision	00001					
	Description						
	Mode	Administration					
	Status	Approved					
		Promote					

The resource is submitted to a reviewer.

6. See *Phase 2: Reviewer's Role* on page 507 for the next step in the workflow.

Phase 2: Reviewer's Role

- 1. A designated reviewer now logs into Studio and opens the Projects manager.
- 2. In the Filter section, select Reviewer from the Tasks list and click Filter Now.

Filter/Search					
Filter					
(N) (N) (N)	202				
 Filter Values 					
Project	P001				
Tasks	Reviewer				
Filter / Search	Filter Now				

The resource the developer submitted appears in the pane on the right.

3. The reviewer reviews the resource to determine if it ready for testing and then either approves or rejects the resource:

Choose	If the resource is
Approve	Ready for testing. This action passes the resource on to the Administrator to promote the resource for further testing or production to the next appropriate tier.
	Choosing Approve does not promote to the next tier (typically the Unit testing tier) but instead updates the resource state so an administrator can promote the resource for further testing. Depending on the defined projects in the workspace, Unit testing may not have been defined; only Model office may have defined. See <i>Phase 3: Administrator's Role</i> on page 508 for more information.
Reject	Not ready for resting. Enter information about why the resource was rejected in the Description field. This action returns the resource to the developer to edit and resubmit to the reviewer. See <i>Editing a Resource</i> on page 511 for more information.

Phase 3: Administrator's Role

- 1. A designated administrator now logs into Studio and opens the Projects manager.
- 2. In the Filter section, select Administrator in the Tasks list and click Filter Now. The approved resource appears in the right pane.
- 3. Highlight the resource in the pane on the right and click Promote. This action promotes the resource to the next appropriate tier for further testing.
- 4. See Phase 4: Tester's Role on page 508.

Phase 4: Tester's Role

The tester tests all resources that have been reviewed and approved for further testing by the administrator.

- 1. The designated tester logs into Studio.
- 2. The tester changes the current tier to the Unit Test tier. From the menu, select File, Change Tier. The following window appears.

Change 1	fier	
rrent	(DEV) 001 - Development	ОК
ailable Tie	rs:	Cancel
ers	100 million (1997)	
Developr		
Unit test	Development	
	TrainingCompany_UNIT	
System t		
	TrainingCompany_SYST	
Model of		
Productio	n	

- 3. Select the Unit Test tier and click Ok.
- **Note** When you change tiers, you are indicating that you want to change your focus into a new library. When you work within that tier, Studio shows you only those resources that have been promoted to that level. The idea is that you should be able to test resources at each level to make sure only those resources that should are promoted forward. This is typically accomplished by using the Mode and Status library record members as promotion criteria.
 - 4. Open the Projects manager.
 - 5. In the Filter section select Tester from the Tasks menu and select Filter Now. The right pane shows the resource that was promoted by the administrator.

ilter/Search		4				
Filter		_	Name	Type	Description	Pro
0 9 9		1ST	SECTION		Initial check in.	P001
 Filter Values 						
Project	P001					
Tasks	Tester					
Filter / Search	Filter Now					
() (i)						
	ties					
Resource Proper Name	ties MYFIRSTSECTION					
Resource Proper						
Resource Proper Name	MYFIRSTSECTION					
Resource Proper Name Type	MYFIRSTSECTION FAP					
Resource Proper Name Type Version	MYFIRSTSECTION FAP 00001					
Resource Proper Name Type Version Revision	MYFIRSTSECTION FAP 00001 00020					
 Resource Proper Name Type Version Revision Description 	MYFIRSTSECTION FAP 00001 00020 Initial check in.					
Resource Proper Name Type Version Revision Description Mode	MYFIRSTSECTION FAP 00001 00020 Initial check in. Testing					

6. The tester now must choose to pass or fail the resource:

Choose	То
Pass	Move the resource to the Administrator's queue. The Administrator can then promote the resource to the next available tier.
Fail	Return the resource to the developer's tier. Enter information explaining why the resource was rejected in the Description field. Failed resources must be corrected by the developer and resubmitted for review and testing.

See *Editing a Resource* on page 511 for more information.

EDITING A RESOURCE

When a reviewer rejects a resource or a tester fails a resource, the resource is returned to the developer.

	NY_DEV			
Filter/Search				
Filter		_		
(N + 10)		Name		Pro P001
		1STSECTION	FAP	16001
 Filter Values 				
Project	P001			
Tasks	Developer			
Filter/Search	Filter Now			
Actions		4		
Resource Prope	rties	=		
Name	1STSECTION			
	FAP			
Type	00001			
Type Version				
	00003			
Version				
Version Revision				
Version Revision Description	00003			
Version Revision Description Mode	00003 Development			
Version Revision Description Mode	00003 Development Rejected			

The following actions are available to the developer:

- Check Out
- Edit
- Resolve

Check Out

This action locks the resource to prevent other developers from editing or checking it out.

Edit

The Edit action opens the resource in the appropriate editor outside of the Projects manager. If the developer has not checked out the resource the Edit action also checks out the resource before opening the editor.

If you edit and save the resource without checking it in, when you return to the Projects manager you will see these available actions:

- Unlock
- Check In

Filter/Search		4				
niter/search						
Actions		4	Name	Type	Description	Project
Actions		15	STSECTION	FAP		P001
1						
· Resource Prope	arties					
Name	1STSECTION					
Type	FAP					
Version	00001					
Revision	00006					
Description						
Mode	Development					
Status	Checked out					
	Unlock					
	Check in					
	Edit					

Unlock

If you are unsatisfied with the changes to the resource the Unlock action lets you discard those changes. When you select Unlock this message appears:



Click Yes to unlock the resource which discards all previous changes.

Check in

This action checks in the resource while preserving all previous changes. Once the resource is checked in, the Submit action becomes available to resubmit the resource to the reviewer.

Filter/Search		4				
Actions		4	Name	Type	Description	Project
Actions			STSECTION	FAP		P001
 Resource Prope 	tion					
Name	1STSECTION					
Type	FAP					
Version	00001					
Revision	00009					
Description						
Mode	Development					
Status	Checked in					
	Check out					
	Edit					
	Submit					

Resolve

The developer uses the Resolve action when the resource is failed by a tester but the reported issue associated with the resource is determined to not exist. The developer can resolve the failure without further changes or check in.

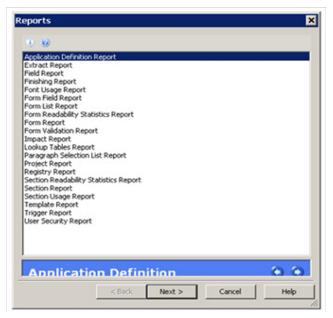
Select the resource in the pane on the right and click Resolve. The resource is removed from the developer's workflow and moved to the administrator's workflow. The developer can optionally add information to the description of that resource before clicking Submit to provide information to the Administrator as to why the resource was resolved without change.

TRAININGCOMP/	att_DEv]					
ilter/Search		4				
Actions		4	Name	Type	Description	Project
Actions		1	STSECTION	FAP		P001
• •						
Resource Prope	erties					
Name	1STSECTION					
Туре	FAP					
Version	00001					
Revision	00010					
Description						
Mode	Development					
Status	Rejected					
1000	Check out					
	Edit					
	Resolve					

USING THE PROJECT STATUS REPORT

The Project Status Report shows the project status, and can be organized by tier or resource name within a project.

1. From the menu, select Manage, Tools, Reports. The Reports window opens.



2. Select Project Report in the list and click Next. The Choose Project window opens.

Choose Project	×
Project:	
2001	<u> </u>
Report Field Sorting Type (Asc) Name (Asc)	Restore Defaults
Ver (Asc) Rev (Asc) Status (Asc) User (Asc) Mode (Asc)	Asc/Desc
Move Up Move Down	
<back next=""> Ca</back>	ncel Help

3. Select the project from the list and click Next. The Generate Report window opens.

Status	Tasks
>	Generate Report
oner	
ogress	
ogress	

4. Click Finish to generate the report. Studio then displays the report. Each development tier you have established is listed in sequence.

		Pr	oject: F	001		
		1	Tier: D	EV		
Name	Type	Ver	Rev	User ID	Status	Mode
FOOTERSECTION	FAP	00001	00006	TFO	Approved	Administration
HEADERSECTION	FAP	00001	00006	TFO	Approved	Administration
MYFIFTHSECTION	FAP	00001	00004	TFO	Failed	Development
MYFIRSTSECTION	FAP	00001	00020	TFO	Promoted	Administration
MYFOURTHSECTION	FAP	00001	00002	TFO	Promoted	Administration
MYSECONDSECTION	FAP	00001	00011	TFO	Approved	Administration
MYTHIRDSECTION	FAP	00001	00017	TFO	Approved	Administration
TEST	FAP	00001	00001	TFO		Development

Chapter 9

Working with Graphics

Graphics are bitmap objects you can place on a section. Studio does not create graphics, but it does let you manipulate them. Graphics are created in graphics applications such as Microsoft Paint or by scanning artwork. Make sure you have the needed rights to perform the function, otherwise, contact your System Administrator to update.

Click Graphics to work with graphics.

This chapter discusses these topics:

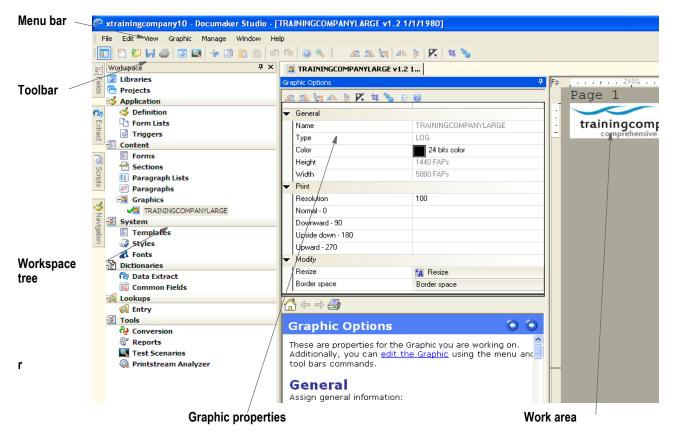
- Using the Screen on page 517
- Managing Graphics on page 525
- Creating a Text Watermark on page 534

USING THE SCREEN

Studio places all the tools you to work with graphics files at your fingertips. The screen is your graphic work area. It is important to become familiar with the general screen layout and parts of the screen. Understanding the screen layout will help you work quickly and efficiently.

Graphics are used to render logos and other customer fonts for use in the Documaker Studio Section manager. It is important to remember that Graphics will also need to print at run time. This means that you, or a system administrator, needs to create printer resources that match the graphics used on forms composition. There are utilities that can assist with this. See the Utilities Reference for more information on these tools, as well as *Converting Files* on page 527.

The first window that appears when working with graphics is shown here.



Item	Description
Menu bar	The menu bar provides the list of available pull-down menus.
Toolbar	The toolbar contains a row of icons that provide quick access to common options.
Workspace tree	The workspace tree lets you quickly access different items. It also shows which specific resources that are checked out (green check mark), which resources are checked out by another user that you would only have read-only access to (red check mark), and which resources are open in read-only mode or have never been checked into the library.
Graphic properties	Here Studio shows you the properties for the graphic you are working on.

Item

Work area

This is where you work with the graphic.

USING THE MENU BAR

Description

This section introduces you to the pull-down menus which include additional options or are only available when you are working with graphics.

Note For information on the standard menus and menu options which are always available, see *Using System Menus* on page 35.

Menu	Description
Graphic	The Graphic menu provides you with tools to manipulate a graphic image.

Using the Graphic Menu

The Graphic menu provides you with tools to manipulate a graphic. You can rotate, mirror, reverse, convert to black and white, resize, and crop a graphic. When you select Graphic, this menu appears:

<u>G</u> raphic				
	Rotate	•		
	Mirror	•		
K	Reverse			
	Convert to BW			
ъ	Resize			
	Border space			
4	Clip			

Option Description

Rotate	
Left	Rotates the graphic 90 degrees in a clockwise motion.
Right	Rotates the graphic 90 degrees in a counter-clockwise motion.
Flip	Rotates the graphic 180 degrees.
Mirror	
Horizontal	Lets you create a mirror image of the graphic by flipping it horizontally.
Vertical	Lets you create a mirror image of the graphic by flipping it vertically.
Reverse	Creates a negative image of the graphic file, where dark becomes light and vice versa.
Convert to BW	Converts a color graphic into a black and white graphic. Reducing the number of colors typically reduces the size of the graphic.

All of these options are available if you right-click in the work area.

Option	Description	
Resize	Lets you change the size of the graphic, either by entering a new height and width or by entering a percentage. For instance, if you enter 200%, Studio makes the graphic twice as big. If you enter a new height and width, make your entry in FAP units (2400 per inch).	
Border Space	Lets you specify the size of the border that surrounds the graphic. You enter the size of the top, bottom, left, and right borders in FAP units (2400 per inch).	
Clip	Lets you crop a graphic. Using the Clip option, you draw a box around the part of the graphic you want to keep. Studio deletes everything outside the box.	
All of these options are available if you right-click in the work area.		

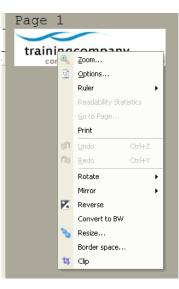
USING THE RIGHT-CLICK MENU

When working with graphic properties, you can right-click to see the following menu.

✓ General Name TRAININGCOMPANYLARGE Type LOG Color 24 bits color Height 1440 FAPs Width Print This Window Export This Window Export This Window Export This Window File Normal · 0 Rotate left Downward · 90 Hip Upside down · 180 Vertical Upward · 270 Reverse Clip Resize Promele Information Pane Tormal formation Pane	Gra	Graphic Options 🛛 🧧 🖓				
Name TRAININGCOMPANYLARGE Type LOG Color 24 bits color Height 1440 FAPs Width Print This Window ♥ Print Export This Window to File Resolution Rotate left Normal - 0 Rotate right Downward - 90 Flip Upside down - 180 Vertical Upward - 270 Reverse ♥ Modify Clip Resize Resize	4	2 🕰 🦙 🔺 🍃 🔀 🙀	% ()			
Type LOG Color 24 bits color Height 1440 FAPs Width Print This Window to File Resolution Rotate left Normal · 0 Rotate right Downward · 90 Flip Upside down · 180 Vorizontal Upward · 270 Reverse ✓ Modify Clip Resize Resize	÷	General				
Color 24 bits color Height 1440 FAPs Width Print This Window to File Resolution Rotate left Normal - 0 Rotate right Downward - 90 Filip Upside down - 180 Vertical Upward - 270 Reverse ▼ Modify Clip Resize Resize		Name	TRAININGCOMPANYLARGE			
Height 1440 FAPs Width Print This Window ✓ Print Export This Window to File Resolution Rotate left Normal · 0 Rotate right Downward · 90 Flip Upside down · 180 Vertical Upward · 270 Reverse ✓ Modify Clip Resize Resize		Туре	LOG			
Width Print This Window ► Print Export This Window to File Resolution Rotate left Normal · 0 Rotate right Downward · 90 Filip Upside down · 180 Horizontal Upward · 270 Reverse Modify Clip Resize Resize		Color	24 bits color			
		Height	1440 FAPs			
 Print Export This Window to File Resolution Rotate left Normal - 0 Rotate right Downward - 90 Flip Upside down - 180 Vertical Upward - 270 Reverse Modify Clip Resize Resize 		Width	Drint This Window			
Resolution Rotate left Normal - 0 Rotate right Downward - 90 Filip Upside down - 180 Horizontal Upward - 270 Reverse ✓ Modify Clip Resize	÷	Print				
Downward - 90 Flip Upside down - 180 Horizontal Upward - 270 Reverse ✔ Modify Clip Resize		Resolution				
Upside down - 180 Horizontal Upward - 270 Vertical Vertical Vertical ✓ Modify Clip Resize		Normal - 0	Rotate right			
Upside down - 180 Vertical Upward - 270 Reverse ✓ Modify Clip Resize Resize		Downward - 90				
Upward - 270 Reverse ✓ Modify Clip Resize Resize		Upside down - 180	r tor teor teor			
✓ Modify Clip Resize		Upward - 270				
1.0020	÷	Modify				
Border space Toggle Information Page		Resize				
bolder space		Border space	Toggle Information Pane			

Option	Description
Print	Prints a copy of the properties for this graphic.
Export this Window to File	Lets you save the contents of this window in a CSV file.
Rotate left	Rotates the graphic 90 degrees to the left.
Rotate right	Rotates the graphic 90 degrees to the right.
Flip	Rotates the graphic 180 degrees.
Horizontal	Lets you create a mirror image of the graphic by flipping it horizontally.
Vertical	Lets you create a mirror image of the graphic by flipping it vertically.
Reverse	Creates a negative image of the graphic file, where dark becomes light and vice versa.
Clip	Lets you crop a graphic. Using the Clip option, you draw a box around the part of the graphic you want to keep. Studio deletes everything outside the box.
Resize	Displays the Resize window so you can change the size of the graphic by entering new dimensions or by specifying a percentage increase or decrease.
Toggle Information Pane	Lets you display or hide the information pane.
Help	Lets you display Help information

When working with the actual graphic in the work area, you can right-click to see the following menu.



Option	Description
Zoom	Lets you see a larger or smaller version of the graphic.
Options	Lets you modify document viewing options.
Ruler	
Horizontal	Select to display the horizontal ruler. Select again to remove the ruler.
Vertical	Select to display the vertical ruler. Select again to remove the ruler.
FAPs	Select to use FAP units (2400 per inch) on the ruler.
Inches	Select to use inches on the ruler.
Centimeters	Select to use centimeters on the ruler.
Picas	Select to use picas on the ruler.
Points	Select to use points on the ruler.
Readability Statistics	If applicable, generates readability statistics for the current text.
Go to Page	Lets you go to a specific page.
Print	Prints a copy of the graphic.
Undo	Cancel or reverse your last action or choice.
Redo	Repeat the most recent change.
Rotate	
Left	Rotates the graphic 90 degrees in a clockwise motion.
Right	Rotates the graphic 90 degrees in a counter-clockwise motion.

Option	Description
Flip	Rotates the graphic 180 degrees.
Mirror	
Horizontal	Lets you create a mirror image of the graphic by flipping it horizontally.
Vertical	Lets you create a mirror image of the graphic by flipping it vertically.
Reverse	Creates a negative image of the graphic file, where dark becomes light and vice versa.
Convert to BW	Converts a color graphic into a black and white graphic. Reducing the number of colors typically reduces the size of the graphic.
Resize	Lets you change the size of the graphic, either by entering a new height and width or by entering a percentage. For instance, if you enter 200%, Studio makes the graphic twice as big. If you enter a new height and width, make your entry in FAP units (2400 per inch).
Border space	Lets you specify the size of the border that surrounds the graphic. You enter the size of the top, bottom, left, and right borders in FAP units (2400 per inch).
Clip	Lets you crop a graphic. Using the Clip option, you draw a box around the part of the graphic you want to keep. Studio deletes everything outside the box.

USING THE TOOLBAR

The toolbar provides a quicker way to select options that may be listed on a drop down menu. Here is an example of the toolbar shown when you are working with graphics:



Standard toolbar icons

Shown below are the toolbar icons that are always available. The icons are listed as they appear, from left to right.

10	s 🖬 🖬 🎦	🖻 🖬 🎒 👗 🖻 🛍 🗅 🗠 🏭
lcon	Name	Description
褶	New Workspace	Creates a workspace.
12	Open Workspace	Opens a workspace.
	Close Workspace	Closes an open workspace.
124	Toggle Workspace	Toggles between displaying and hiding the workspace.
	New	Creates a file.
È	Open	Opens a file.
	Save	Saves the open file.
4	Print	Prints the current object.
X	Cut	Removes an object and places it on the clipboard.
	Сору	Copies an object and places it on the clipboard.
â	Paste	Places an object from clipboard onto the current file.
\square	Undo	Reverses your last action
G	Redo	Reverses last undo.
2 4 4	Help	Displays the Help window

Graphic toolbar icons

Shown below are the toolbar icons that appear when you are working with graphics.

2	오 변 🕪 🗮	A 🔁 🔁 A
lcon	Name	Description
2	Rotate left	Rotates the graphic 90 degrees to the left.
9	Rotate right	Rotates the graphic 90 degrees to the right.
L	Flip	Rotates the graphic 180 degrees.
	Mirror horizontally	Lets you create a mirror image of the graphic by flipping it horizontally.
	Mirror vertically	Lets you create a mirror image of the graphic by flipping it vertically.
-	Reverse	Creates a negative image of the graphic file, where dark becomes light and vice versa.
	Clip	Lets you crop a graphic. Using the Clip option, you draw a box around the part of the graphic you want to keep. Studio deletes everything outside the box.
A ^A	Resize	Lets you change the size of the graphic.

MANAGING GRAPHICS

Once you create a graphic, you can modify it using this option. This gives you an easy way to resize, reverse, rotate, and manipulate the graphic to fit your needs.

Note Studio embeds non-LOG format bitmap files into a multiline text field. By embedding the graphic file, you can pass the WIP or archived form set to another user who only has a copy of the basic master resource library (MRL), which does not include a copy of the graphic.

The system does not embed LOG type bitmaps because those are Documaker standard format graphics files and would normally be stored in the MRL.

itor Filter Preview									14
	Name	Туре	Ver	Rev	Effective Date	Locked	User	Secured	Des
	BOAT	LOG	00001	00001	1/1/1980		JDOE		Initial che
ingcompany comprehensive insurance group	BUSINESS	LOG	00001	00001	1/1/1980		JDOE		Initial che
	CAR	LOG	00001	00001	1/1/1980		JDOE		Initial che
	FLOOD	LOG	00001	00001	1/1/1980		JDOE		Initial che
	HOUSE	LOG	00001	00001	1/1/1980		JDOE		Initial che
	LUXURY	LOG	00001	00001	1/1/1980		JDOE		Initial che
	N12345	LOG	00001	00001	1/1/1980		JDOE		Initial che
	N98798	LOG	00001	00001	1/1/1980		JDOE		Initial che
	RV	LOG	00001	00001	1/1/1980		JDOE		Initial che
	SIG	LOG	00001	00001	1/1/1980		JDOE		Initial che
	SUV	LOG	00001	00001	1/1/1980		JDOE		Initial che
	TRAININGCOMPAN	LOG	00001	00001	1/1/1980		JDOE		Initial che
	TRAININGCOMPAN	LOG	00001	00001	1/1/1980		JDOE		Initial che
	TRAININGCOMPAN	LOG	00001	00001	1/1/1980		JDOE		Initial che

When you choose Graphics, here is an example of the window that appears:

You can use the Browse button to open the following types of files:

Documaker graphic (.LOG)	Bitmap files (.BMP)
IOCA (.ICA)	TIFF (.TIF)
JPEG (.JPG)	Portable Network Graphics (.PNG)
Xerox font (.FNT)	Xerox font data (.FNT)
Xerox image (.IMG)	Xerox logo (.LGO)
Paintbrush (.PCX)	Overlay (.OVL)
Windows Metafile (.WMF)	Encapsulated PostScript (.EPS)
AFP page segment (.SEG)	

You can use the Manage, System, Settings option to specify these DPI settings in the BitmapLoaders control group:

```
< BitmapLoaders >
   WMFImportDPI =
   VectorGraphicImportDPI =
```

Option	Description
WMFImportDPI	(Optional) Enter the DPI (dots per inch) at which the graphic will be rendered into raster format. The default is 100. The maximum DPI is 2400.
VectorGraphicImportDPI	(Optional) Enter the DPI (dots per inch) at which the graphic will be rendered into vector format. The default is 100. The maximum DPI is 2400.

Note The level of support varies from format to format.

Not all PNG formats are supported. Specifically, PNG supports a transparency attribute that is not supported. Studio only supports opaque (non-transparent) bitmaps.

PNG also supports a variety of color bit patterns, such as - 1, 2, 4, 8, 16, 24, and 32 bits per pixel. Studio does not support all of these formats, but a 3rd-party PNG library included with Studio will convert the bitmaps into a pixel format the system does support.

Studio converts PNG files into bitmaps when printing. It handles monochrome (1 bit), 16-color (4-bit), 256-color (8-bit), and full color (24-bit) bitmaps. However, not all printers can support these, so make sure you use bitmaps appropriate for your printer.

PDF only supports 1-bit and 24-bit bitmaps. So, some types of PNG files may look different when you create PDF files.

Positioning JPEG Objects

You can use the Z-Index option to position JPG objects:

```
< PrtType:HTML >
IMG ZIndex = 100
```

The z-index indicates the stacking order of objects based on the order in which those objects appear in the HTML file. Higher values place objects closer to the front while lower values place them further to the back. Objects with the same value are stacked based on the order in which they appear in the HTML source.

For instance, a positive value positions an object above text that has no defined zindex. A negative value would place the object below the same text.

If you omit this option or leave it blank, Studio will not layer objects.

Opening Color Bitmaps

Studio can open the following types of color bitmaps:

- TIFF
- BMP
- LOG
- JPEG

To open another type of bitmap, first convert it to monochrome (black and white). Both gray-scale and color bitmaps can be converted to monochrome bitmaps. **Note** While Studio can open TIFF, BMP, LOG, and JPEG files, it can only import LOG files into a workspace library (MRL). To import a TIFF, BMP, and JPEG files into an MRL, first save the file as a LOG file, then import it. You can convert multiple bitmap files into LOG files using Conversion manager.

GDI and PCL print support color printing. Select File, Print to display the Print window. Select the printer type and device and click the Send Color option to print in color.

Note Color bitmap and JPG files are only supported on Windows and UNIX systems if you are using the GenPrint program to print to color GDI, PCL, or PostScript printers or if you are producing color PDF or RTF output.

Color graphics and TIF files are converted to monochrome for Metacode and AFP output, but are supported on Windows, UNIX systems.

Reverse black and white file types

Studio can also open reversed black and white bits. A flag tells you whether a bitmap was stored in the opposite method. You can automatically reverse the bit if necessary.

Converting Files

You can use the File, Save As, option to convert a graphic to one of the following file types:

- Documaker graphic file (*.LOG)
- TIFF (*.TIF)
- Bitmap (*.BMP)
- Xerox font (*.FNT)
- Xerox image (*.IMG)
- AFP page segment (*.SEG)
- JPEG (*.JPG)

To do so, open the graphic and choose the File, Save As option. Select the type of file you want to convert to in the Save File As Type field. You can also convert files using the Manage, Conversion, Convert Graphic Files option. If you have a large number of LOG files to convert into JPEG files, see the Utilities Reference for information on using the LOG2JPG utility.

Note An AFP page segment can contain a mixture of text, section objects, and graphics data objects and can be placed anywhere on a presentation page. Programs can request page segments for presentation in a page or overlay. Page segments are used for graphics, signatures, and boilerplate. A Xerox font can also include multiple graphics or signatures.

OPENING A GRAPHIC

Use the following instructions to open a graphic file for editing.

1. Choose Graphics from the Manage menu or from the Workspace tree. The Open File window appears.

Filter Preview								14 of
NGCOMPANYLAI A Name	Туре	Ver	Rev	Effective Date	Locked	User	Secured	Descri
BOAT	LOG	00001	00001	1/1/1980		JDOE		Initial check
BUSINESS	LOG	00001	00001	1/1/1980		JDOE		Initial check i
CAR	LOG	00001	00001	1/1/1980		JDOE		Initial check i
FLOOD	LOG	00001	00001	1/1/1980		JDOE		Initial check i
HOUSE	LOG	00001	00001	1/1/1980		JDOE		Initial check i
LUXURY	LOG	00001	00001	1/1/1980		JDOE		Initial check i
N12345	LOG	00001	00001	1/1/1980		JDOE		Initial check i
N98798	LOG	00001	00001	1/1/1980		JDOE		Initial check i
RV	LOG	00001	00001	1/1/1980		JDOE		Initial check i
SIG	LOG	00001	00001	1/1/1980		JDOE		Initial check i
SUV	LOG	00001	00001	1/1/1980		JDOE		Initial check i
TRAININGCOMPAN	LOG	00001	00001	1/1/1980		JDOE		Initial check i
TRAININGCOMPAN	LOG	00001	00001	1/1/1980		JDOE		Initial check i
	LOG	00001	00001	1/1/1980		JDOE		Initial check i

Note This option specifies the directory for storing graphics:

```
< MasterResource > LogoLib =
```

If you omit this option, Studio looks for graphics in the path defined for FormLib.

2. Highlight the file you want and click Ok. The graphic appears. If you want to open a file that has not been checked into the library, click Browse.

	TRAININGCOMPANYLARC	iE v1.2 1	
Gr	aphic Options		Ф Fp 2400 4800
4	2 🕰 🍢 🔺 🖕 🔀 🙀 '	• • •	Page 1
÷	General		
	Name	TRAININGCOMPANYLARGE	trainingcompany
	Туре	LOG	comprehensive insurance group
	Color	24 bits color	
	Height	1440 FAPs	
	Width	5880 FAPs	
÷	Print		
	Resolution	100	
	Normal - 0		
	Downward - 90		
	Upside down - 180		
	Upward - 270		
÷	Modify		
	Resize	*A Resize	
	Border space	Border space	

Importing a Signature or Graphic

You can import a signature or graphic out of a Xerox font that contains multiple signatures or graphics by clicking Browse and following these steps:

1. Select Xerox font data in the Files of Type field. For the import to be successful, you must know the characters which comprise the signature or graphic and you must match case when entering the characters to be imported.

Be sure you do not select Xerox font files (*.FNT) as the file type by mistake.

- 2. Select the file containing the signature or graphic and click Open.
- 3. Studio asks you to enter the characters to convert from the font file. You must enter the exact characters in the exact case for the system to properly import the signature or graphic. For example, if the characters JHNDOE are used to print a signature from John Doe, you cannot enter *jhndoe*.
- 4. Click Ok.

EDITING A GRAPHIC

Once you open a graphic, you have these options when you right-click a graphic:

- Undo
- Redo
- Rotate
- Mirror
- Reverse
- Convert to BW
- Resize
- Border Space
- Clip

Option	Description
Undo	Use the Undo option to cancel or reverse your last action or choice, and restore the graphic to its prior appearance. Since the system keeps track of all actions, you can select Undo several times to undo your most recent changes one at a time.
Redo	Use this option to repeat an action you have just reversed. For instance, if you rotate a graphic, then click Undo to restore it to its original position, you can then click Redo to rotate the graphic again.
Rotate	The Rotate option takes the current graphic and turns it in the direction you choose. You can rotate the graphic left or right or flip the graphic.
Mirror	Use this option to create a mirror image of the graphic. If you want to create a mirror image of the graphic, you can select either vertical or horizontal.

Option	Description
Reverse	The Reverse option creates a <i>negative</i> of the graphic by taking the open graphic and switching the black and white colors.
Convert to BW	Use the Convert to BW option to convert a graphic to black and white. Reducing the number of colors typically reduces the size of the graphic. The system displays the Color Selection window when you choose this option. If you select Print in Color, the system prints the graphic in the color you selected.
Resize	Displays the Resize window so you can change the size of the graphic, either by entering a new height and width or by entering a percentage. For instance, if you enter 200%, Studio makes the graphic twice as big.
Border space	If you enter a new height and width, make your entry in FAP units (2400 per inch). Displays the Border Size window so you can specify the size of the border that surrounds the graphic. You enter the size of the top, bottom, left, and right borders in FAP units (2400 per inch).
	Border Size X Image: Constraint of the second se
Clip	Lets you crop a graphic. Using the Clip option, you draw a box around the part of the graphic you want to keep. Studio deletes everything outside the box.

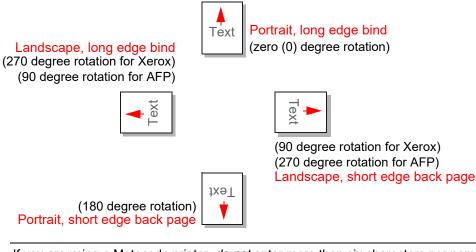
SETTING ROTATION NAMES

Use the Normal, Downward, Upside Down, and Upward fields in properties to enter graphic file names if you want to print a rotated graphic using an AFP or Xerox Metacode printer. The names you enter here are the names of the printer resources (files stored on the printer) which are to be used when printing a graphic which has a rotation of 0, 90, 180, or 270 degrees. One system graphic file can equate to four printer resource files.

Note PCL and PostScript printers do not have printer resource files, so they can automatically rotate a graphic. You only need to enter these names if you are using an AFP or Xerox Metacode printer.

AFP and Metacode printers cannot automatically print a rotated graphic. Therefore, you must create four printer resource files to support a graphic printed in any rotation. Since you cannot rotate a graphic directly on a section, you need rotated graphics when using graphics on a non-portrait long edge section. For example,

- Portrait, long edge bind requires a zero (0) degree (normal) rotation printer resource.
- Portrait, short edge back page requires a 180 degree (upside down) rotation printer resource.
- Landscape, long edge bind requires a 270 degree (upward) rotation printer resource for Xerox printers and a 90 degree rotation printer resource for AFP printers.
- Landscape, short edge back page requires a 90 degree (downward) rotation printer resource for Xerox printers and a 270 degree rotation printer resource for AFP printers.



Note

If you are using a Metacode printer, *do not* enter more than six characters per name.

Changing the Resolution

The Resolution field in the Properties lets you change the dpi (dots per inch) of the graphic. Resolution determines the clarity of the object for use with different printer types. The more dots per inch, the sharper and more defined the object appears.

Gra	aphic Options		4
4	2 🕰 🦙 🔺 🍃 🌠	¤ 🐂 🖲 🧭	
÷	General		
	Name	TRAININGCOMPANYLARGE	
	Туре	LOG	
	Color	24 bits color	
	Height	1440 FAPs	
	Width	5880 FAPs	
÷	Print		
	Resolution	Ĩ	0(
	Normal - 0		
	Downward - 90		
	Upside down - 180		
	Upward - 270		
÷	Modify		
	Resize	*A Resize	
	Border space	Border space	

SETTING RULER AND GRID OPTIONS

You can right-click in the graphic work area and select Options to turn on or off rulers and the grid.

M chudia Cattinga			
Studio Settings	Document View		
Configuration Options	🗸 🔊 🤄 🥘		
Workspace Information			
Common / Document Vier			
Forms	Show horizontal ruler		
E Sections	Show vertical ruler	V	
Filter Settings	➡ Grid Settings		
Graphics	Show Horizontal Grid		
Triggers	Show Vertical Grid	N N	
HTML		V	
🙀 Printstream Analyzer			
	Graphic Manager (Options	\odot
	instance, you use these opt	Studio displays bitmap graph tions to select the unit of le rulers, and set ruler colors	
<	Ruler Settings		~
,		OK Cancel	Help

The Grid Settings let you display or hide horizontal and vertical grid lines on the graphic. Grid lines show you the edges of the graphic. Select the appropriate Show field to display a grid line. Click Ok to exit and apply your changes.

By right-clicking on a graphic and choose the Rulers option, you can set the display options for the horizontal and vertical rulers. Select the ruler's units of measure in the field to the right. You can choose between FAP units (1/2400 of an inch), points, inches (1/6, 1/8, or 1/10), centimeters, or picas.

CREATING A TEXT WATERMARK

Studio lets you create a graphic to use as a background image on a form to simulate a watermark. This lets you, for instance, print the word "Proof" or "Confidential" on the form. You simply create a graphic (LOG) file that has the words or image you want and add that graphic from the Print window.

Follow these steps to create a text watermark:

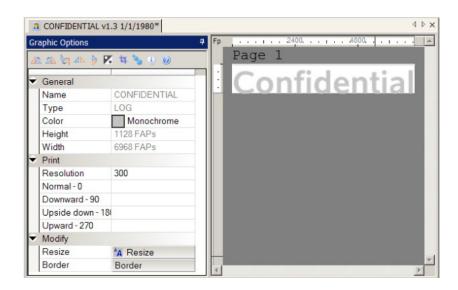
1. Open Studio's Graphics manager and select New. The Convert Text to Bitmap window appears.

Convert text to bitmap				
 Convert text to bitmap 		Cancel		
Text string	Confidential	Help		
FontID	24336 Albany AMT Bold Italic 36 PT at			

2. Make the appropriate entries into these fields:

Field	Description
Text String	Enter the text you want to appear, such as Proof or Confidential.
Font ID	Select the font you want to use.

3. When finished, click OK. Studio creates a graphic based on your entry in the Text String field and displays the Graphic Options window.



4. Use these fields to further define the graphic:

Field	Description
Name	Enter a name for the graphic file.
Туре	The default graphic file format is LOG. Use the Convert Graphic Files in Conversion Manager to convert graphic (LOG) files to other file types including BMP, SEG, JPG, etc.
Color	If you are going to use the graphic as a watermark, you can specify its color here or you can use the Watermark INI options to control the color at print time. Watermarks are typically defined in a light color, such as light gray, so the document will still be legible when the watermark is applied. Click the button that appears in this field to choose the monochrome color or to convert to monochrome.
Height	Use this field to specify the height of the graphic.
Width	Use this field to specify the width of the graphic.
Resolution	 Use this field to specify the DPI (dots per inch) of the graphic. The more dots per inch, the sharper and more defined the object appears. Normal-0 Downward-90 Upside down-180 Upward-270 If you are using an AFP or Metacode printer and you want to rotate the graphic, you must create a separate printer resource file for each rotation Note: PCL and PostScript printers can automatically rotate a graphic. You only need to enter these names if you are using an AFP or Xerox Metacode printer.
Resize	Click this button to display the Resize window where you can change the size of the graphic, either by entering a new height and width or by entering a percentage. For instance, if you select Percent Increase and enter 200%, Studio makes the graphic twice as big. If you choose to select By Dimensions and enter a new height and width, make your entry in FAP units (2400 per inch).
Border	Click this button to display the Border Size window where you can specify the size of the border that surrounds the graphic. You enter the size of the top, bottom, left, and right borders. To add white space, choose White Border in the Adjust Space Type field and enter the amount of white space you need. If you want a black border around the graphic, Select Black Border and enter the amount or thickness of the border.

Chapter 10

Using Styles

A style is a set of formatting characteristics. Style sheets let you specify default settings for objects such as text labels, text areas, boxes, etc. and associate those settings with named styles. This saves time and provides a convenient way to enforce a particular look and feel across many different sections and forms.

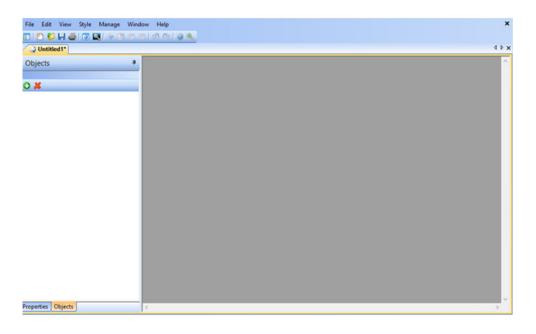
Styles can also be based on other styles. For example, if you base Style B on Style A, then all of Style B's objects will inherit the properties of the corresponding object in Style A. You can then adjust the settings on selected objects in Style B to override Style A's behavior as needed. This is useful when creating a series of styles that are mostly identical but vary from each other in small ways.

CREATING A STYLE

A style file can contain multiple styles. There are several ways to create a new style file:

- Double-click on Styles in the Workspace tree; click New on the Open File window
- Right-click on Styles in the workspace tree; select New from the right-click menu
- File, New; then select Styles on the Create New dialog

Style Manager is displayed.



Click 🚱 in the Object panel or Select Add from the Style menu.

The Style dialog displays. Enter a name for your Style in the Style Document name field.

£4	Style	×
Style Document name	[
Based on		•
	OK Cance	ł
		_//

Name		Description	
	Style Document Name	Assign a name for the style	

Name	Description		
Based on	Select an existing style if you want the new style to be created based on an existing style		

Note If this is the first style in your Style file, the Based on list will be empty.

Click OK on the Style dialog. The style is created.

Objects 🕴	tyle A	
Style A Bar Codes Cootmarks Bones Contris Fields Contris Fields	Text Label Sample 2006 A. Text area sample paragraph text in order to see what the style looks like.	≤ Seres1 Seres2 Seres3 Seres4 Seres6 Seres6 Seres6
Courses Cours		

The style contains one of each object type.

To modify the settings of an object, click on the object in the View (right panel) or in the Objects tree to select it. Then click the Properties tab. The options for the selected object are displayed.

To modify an option, check the box adjacent to the option to enable the setting and modify as needed.

For example, if you want to change a text label setting, click on Text Labels in the Objects panel to select it; then click the Properties tab. Text Label settings are displayed.

JUntitled1*		
Properties	4	Style A
Text Label Optio	ins	Text Label Sample Stv
🗢 General		Text area sample paragraph text in order to see what the
Name	Style A	style looks like.
Based on		
Font ID	24010 Albany AMT 10 P	
 Attributes 		1
	None	P
Strikeout		
Pre-printed		
Rotation	0 degrees (Normal)	
Color	default	
Adjustment	None	
Properties Object	ts	<

To change a setting such as the Font ID, click the box adjacent to the setting to select $\$ enable the setting.

Click in settings to modify the value as needed.

Properties	4	St	yle .
Text Label Options	;		Ī¢
General			Te te: stj
Name Based on	Style A		
Font ID Attributes	24010 Albany Al 👻 at 24010 Albany Al 🔨		
Underline Strikeout	24012 Albany AN 24014 Albany AN 24016 Albany AN		
Pre-printed Rotation	24017 Albany AM 24018 Albany AM 24020 Albany AM		
Color Adjustment	24022 Albany AM 24024 Albany AM 24030 Albany AM 24036 Albany AM		

The text label in the style is updated to reflect the setting change.

Properties	4	Style A	
Text Label Option	5	Text	
🔁 💥 🚯 🥘		Text Label	
			ple paragraph
🗢 General		style looks like	see what the
Name	Style A	Style looks like	
Based on			
Font ID	24012 Albany Al 💌 🏜		
Underline	None		
Strikeout			
Pre-printed			
Rotation	0 degrees (Normal)		
Color	default		
Adjustment	None		

CREATING A STYLE BASED ON

The Based on pick list displays those styles that have been created in the style file. For example, Style A has been created and another style is added. The Style dialog shows Style A in the Based on field.

You can select Style A for the Based on setting

£₽.	Style	×
Style Document name		
Based on		•
	Style A	Cancer

or

You can leave Based on empty.

P		Style		×
Style Document name	Style B			
Based on				•
			ОК	Cancel

If you set Based to Style A when you create Style B, the objects in Style B inherit the settings of Style A's objects.

For example, the text label object in Style A has a Font ID of 24012. Since Style B's objects inherit Style A's objects settings when Style B is created, Style B's text label object will also have a Font ID of 24012. After Style B has been created, its' object settings can be modified as needed.

Style Modifications

Existing Styles do not automatically inherit changes that are made to their Based on Styles.

For example, Style B was created based on Style A. After Style B was created, a change was made to the Font ID in Style A's text label object. The Font ID in Style B's text label object is unaffected by this change.

You have two ways to update apply Style A's text label font id change to Style B's text label:

- 1. Edit the text label setting in Style B, changing the Font ID from 24012 to 24112
- 2. Reapply Style A in the Based on field in Style B's text label properties

To change Style B's text label font id setting:

Check the Style file out of the library

Properties	4	St	yle A	
Text Label Option	s			
😋 🖊 🕘 🥘			Text Label Sample	Style A
🗢 General			Text area sample paragraph	
Name	Style B		text in order to see what the style looks like.	
Based on	Style A		Style looks like.	
Font ID	24012 Albany AMT 12 PT			
 Attributes 				\square
Underline	None			
Strikeout				1111111111111111
Pre-printed		St	yle B	
Rotation	0 degrees (Normal)			
Color	default		Text Label Sample	Style B
Adjustment	None			
			Text area sample paragraph text in order to see what the style looks like.	

Click the Text label object to select it

Click the Properties tab

Based on setting - reselect Style A from the picklist

Properties		ф
Text Label Option	ns	
🕄 🗶 🔅 🥘		
🗢 General		
Name	Style B	
Based on	Style A	-
Font ID		
 Attributes 	Style A	

The Font ID is updated to match Style A's text label Font ID.

Properties		[#] Sty	le A
Text Label Options			
🔁 🗶 🕄 🥘			Text Label Sample
🗢 General			Text area sample paragra text in order to see what ti
Name	Style B		style looks like.
Based on	Style A		,
Font ID	24112 Albany AMT Bold 12 P		
Underline	None		
Strikeout			
Pre-printed		Sty	le B
Rotation	0 degrees (Normal)		
Color	default		Text Label Sample
Adjustment	None		Text area sample paragra text in order to see what th style looks like.

Changing the Styles List Order

The List order is the order in which styles are displayed in the style file.

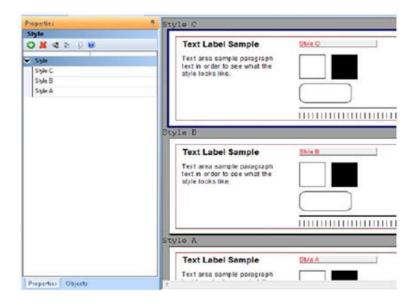
Properties	4	Style A		
Style		Text Label Sample Text area sample paragraph text in order to see what the	Style A	
Style Style A Style B Style C		style looks like.		
		Style B		
		Text Label Sample Text area sample paragraph text in order to see what the style boks like.	Stole B	
		Style C		
		Text Label Sample Text area sample paragraph text in order to see what the	Style C	

This order can be modified in Style Manager.

To modify the list order, open or check the style file out of the library:

To change the list order of Styles in the style file, right-click and select Move Up or

Move Down or use the move icons $\textcircled{\textcircled{abs}}$ on the toolbar.



BUSINESS DEFINITION FILE - DEFINING THE STYLE

A style file must be defined in the Business Application Definition file (*.BDF) to assign styles in the style file to section or paragraph objects.

To assign a style, check the Business Application Definition file out of the library.

Application Defini	ition 9		
AUTOMACA D	ition .	Recipients	ģ
 Section 2010 ⇒ NEW113_0000 ⇒ New113 > Busine 	Application Options Application Options Application Options FXR file name Primary Extract Dic Style file name	GR Client GR Office	Recipient Options Recipient Options Recipient Options Name Copy Count Code
	Color Spot Color Batch Processing	Transactions Image: NB = New Business EN = Endorsement RN = Renewal QU = Quote Categories Context	Description Address Map Transaction Code Options Transaction Code Options Transaction Code Options Transaction Code Options Transaction Code Description DLL Function

Click in the Style file name located under the Application Options group in the Application Options panel.

Select the file from the library that you wish to have available as default styles for section design.

9ª	Open file	
Editor Filte	Name Type Ver Rev Effective Date Locked User MY STYLES STY 00001 00002 1/1/1980 MSHANAHA	OK Cancel
Styles		Browse
		Open as read-only
		New
	•	

The style field is populated with your selection

3	NEW113	/1.7	1/1/1980*	
Application Defi	nition	ą	Recipients	
NEW113	Application Options		🚱 Client	Recipient Options
3 X ☆ 寻	s ⊡ # 0 Ø		Office	O N X 4 A 9 0
NEW113_0000 New113	 Application Options 			Recipient Options
Busine	FXR file name rel121.fxr			Name
	Primary Extract Dic Symbol			Copy Count
	Style file name MY STYLES	3		Code
	Color			Description
	Spot Color	0		Address Map
	Batch Processing		1	1
			Transactions	21
			NB = New Business	Transaction Code Options
			EN = Endorsement	
			RN = Renewal	Transaction Code Options
			QU = Quote	Transaction Code
				Description
				DLL
				Function
				L
	L	_	Categories Context T	ags Transactions

Save and check the Business Application Definition file into the library.

Styles pick list on section and paragraph objects lists styles contained in the Style file defined in the Business Application Definition file. For example:

Pr	operties	4	Fp		2400
Т	ext Label Option	ns		Pag	e 1
C) 🗶 🕷 🕨 🕄	0	:		
÷	General	<u> </u>	: -		Blank
	Name				Dialik
	Text		2.		
	Style	-	ġ.		
	Font ID		Ľ		
۲	Coordinates	Style A Style B	-		
	Horizontal	2050 FAPs			
	Vertical	1200 FAPs	4. 8_		
	Center	Center	0		

The object inherits the settings of that object from the selected Style file

Properties	4
Text Label C	Options
G 🗶 🔍 🛛	• • • •
Name	
Text	
Style	Style A
Font ID	24012 Albany AMT 12 PT (PCL AFP XER Oth)
Coordinates	

The object does not automatically inherit any changes made to the Style after the Style has been assigned to the object. If you want changes made in the Style to be applied to the object, you will need to reapply the style to the object.

Chapter 11

Creating Scripts

You can write DAL scripts to automate system tasks. Click Scripts to open the DAL script editor.

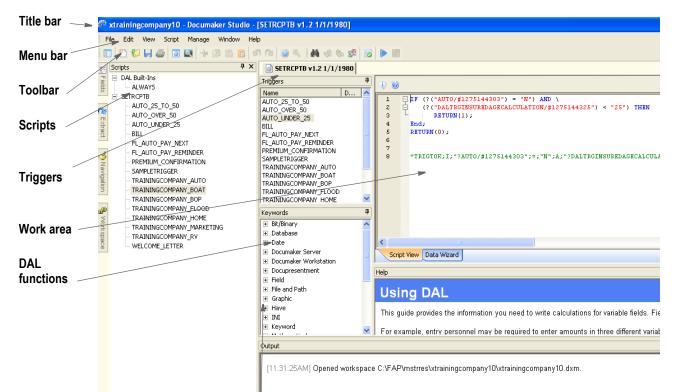
This chapter discusses the following topics:

- Using the Screen on page 548
- Overview on page 553
- Checking Syntax on page 555

USING THE SCREEN

Studio places all the tools you need to work with DAL scripts at your fingertips. The screen is your work area. It is important to become familiar with the general screen layout and parts of the screen to work quickly and efficiently.

The window that appears when working with a DAL script is shown here.



Item	Description
Title bar	The title bar displays the name of the workspace you have open, followed by Documaker Studio, and then the name of the DAL script you have open.
Menu bar	The menu bar provides the list of available pull-down menus.
Toolbar	The toolbar contains a row of icons that provide quick access to common options.
Triggers	Here Studio lists the triggers associated with this DAL scripts.
Scripts	Scripts saved in the SETRCPTB file
DAL functions	This panel lists the various categories of DAL functions and procedures. You can expand each category to see the DAL functions and procedures included within. To insert a function or procedure, simply highlight it and then drag it to the appropriate location within the script.
Work area	This is where you work with the DAL script.

USING THE MENU BAR

This section introduces you to the pull-down menus which include additional options or are only available when you are working with DAL scripts.

Note For information on the standard menus and menu options which are always available, see *Using System Menus* on page 35.

Menu	Description
Edit	To this menu, Studio adds the Syntax Check option.
Script	The Script menu provides you with options you can use when writing or editing a DAL script.

Using the Script Menu

The Script menu provides you with options you can use as you work with DAL scripts. You can insert and delete functions or convert the file into a library, trigger file, or script. When you select Script, this menu appears:

Scri	pt	
	Insert New Function	
	Delete Function	
	Convert To Library	
	Convert To Script File	-
	Library Scrolling	
6	Syntax Check	Ctrl+K
	Library Syntax Check	Ctrl+L
	Run	
	Stop	

Option	Description
Insert New Function	Use to insert a DAL function.
Delete Function	Use to remove a DAL function.
Convert to Library	Use to convert this file into a library file.
Convert to Script File	Use to convert this file into a script file.
Library Scrolling	Scrolls the library file in the Script View. Toggles on or off.
Syntax Check	Verifies that the syntax of an open script is correct. Verification displays in the Output pane.
Library syntax check	Verifies that the Library file's syntax is correct. Verification displays in the Output pane.
Run	Run the open script.
Stop	Stop running the current open script.

USING THE RIGHT-CLICK MENU

When working with scripts, you can right-click to see the following menu.

1 2 3 4 5 6 7 8	End; RETURN	("DA RET I(O)	LTRGINSUR URN(1);	EDAGECAL) = "N") AND \ CULATION/#127514432. 303";=;"N";A;"?DALT:
		-lo	Cu <u>t</u>	Ctrl+X	
		Ð	⊆ору	Ctrl+C	
			Paste	Ctrl+V	
		ж	<u>D</u> elete	Del	
<			Select <u>A</u> ll	Ctrl+A	
	t View Da	鹤	Eind	Ctrl+F	
		5	R <u>e</u> place	Ctrl+H	
Help		4	Print		
Usi	ng D		Insert Symb	ol	
	uide provi		Insert Func	tion 🕨	ed to write calculation

Option Description

-	-
Cut	Remove a highlighted selection and place it on the clipboard. Use Paste to insert the selection into another part of the script.
Сору	Make a copy of the selection and place it in the clipboard. Use Paste to insert the selection into another part of the script.
Paste	Insert the contents of the clipboard at the cursor location.
Delete	Erase the selection. The selection is not stored on the clipboard so you must immediately select Undo if you change your mind.
Select All	Select all of the script. You can then cut or copy the script.
Find	Select to find a text string in the file.
Replace	Select to find a text string and replace it with another text string.
Print	Send the current file to the printer.
Insert Symbol	Opens a window to insert special characters and symbols into a script in the Script View pane.
Insert Function	Opens a menu of the DAL Keyword function or procedure list pane to insert into the current script open in the Script View pane.

Note

To learn more about individual DAL functions and procedures, see the DAL Reference.

USING THE TOOLBAR

The toolbar provides a quicker way to select options that may be listed on a drop down menu. Here is an example of the toolbar shown when you are working with scripts:

12 🕼 🖥 📾 📓 🥔 🕹 🛍 🕲 🗅 🗠 🐐 🛤 🖏 🛝 🕼 😡

Standard toolbar icons

Shown below are the toolbar icons that are always available. The icons are listed as they appear, from left to right.

1	s 🖬 🖪 🎽	🖻 🖬 🎒 👗 🖻 🛍 🗠 🗠 🙀
lcon	Name	Description
褶	New Workspace	Creates a workspace.
12	Open Workspace	Opens a workspace.
	Close Workspace	Closes an open workspace.
124	Toggle Workspace	Toggles between displaying and hiding the workspace.
*	New	Creates a file.
Ē	Open	Opens a file.
	Save	Saves the open file.
4	Print	Prints the current object.
X	Cut	Removes an object and places it on the clipboard.
	Сору	Copies an object and places it on the clipboard.
â	Paste	Places an object from clipboard onto the current file.
\square	Undo	Reverses your last action
G	Redo	Reverses last undo.
2 4 4	Help	Displays the Help window

Script toolbar icons

Shown below are the toolbar icons that appear when you are working with scripts.

M ⁰	L 🏩 🕼 🛛	
lcon	Name	Description
酋	Find	Select to find a text string in the file.
<u>м</u>	Repeat	Select to repeat the last action.
<u>*</u>	Find previous	Select to return to reverse the search.
A . ▶B	Replace	Select to find a text string and replace it with another text string.
	Check syntax	Select to check your script for syntax errors.

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Ξ.

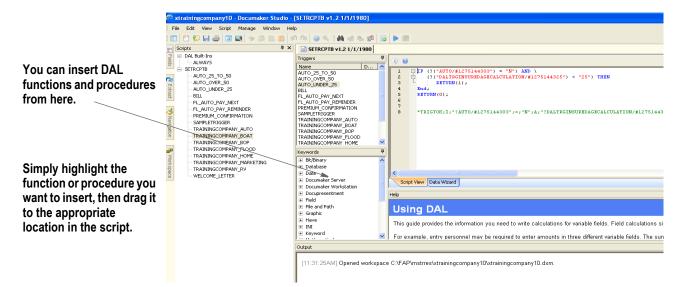
OVERVIEW

Working with DAL scripts usually requires some knowledge of scripting language, and Oracle offers training on DAL scripting. There is also a DAL Reference that describes DAL functions and parameters.

You can work in the Scripts table to build simple trigger scripts. Usually this means that the Extract Dictionary file has been configured, and you can use the DAL wizard to build your script. This builds the script for you, displayed in the Script View pane.

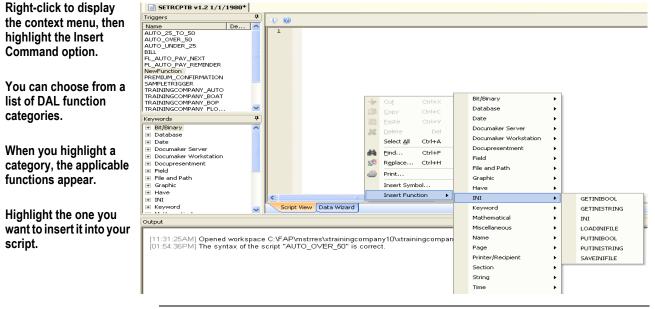
When you open the Scripts manager, you are opening the SETRCPTB file from the library.

Select the script you want to edit, and the system displays in a window similar to the one shown here:



When adding a new script, right-click in the Triggers or Work area pane, or use the Scripts menu, and choose Insert New Function.

You can add new functions through dragging and dropping from the Keywords pane, by typing in the new functions, or using the DAL Wizard pane. You can also add or edit script functions through the floating menu. This menu is only available when you are working on the Script view pane:



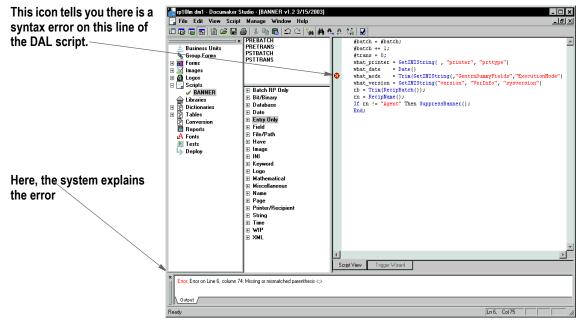
Note To learn more about individual DAL functions and procedures, see the DAL Reference.

CHECKING SYNTAX

When creating a DAL script, you can easily check for syntax errors by choosing the Edit, Check Syntax option.

Note You can also check for syntax errors by clicking this icon on the toolbar:

Here is an example of what you will see when you check the syntax of a DAL script:



The following icon marks each line with a syntax error:



An explanation of the syntax error appears in the status bar

```
Error: Error on Line 6, column 74: Missing or mismatched parenthesis <>
```

Output

Studio tells you the line and column number to make it easier to find the error. This table discusses the types of things Studio checks for:

Error	Description
Out of memory	This can indicate you are running low on memory or have some other internal memory problem.
	Try closing any other applications or open documents within the program to free memory before trying again.
Open failure on script file	This indicates the program could not locate or open the referenced script file. This could mean the file name or path is incorrect or that the file did not contain the expected DAL information. You would typically not receive this error during a syntax check.

Error	Description
Syntax error	This message indicates that something on or about the line where it was encountered that did not meet the syntax requirements. Check parentheses for matches; that quoted strings are defined correctly; and that semicolons are used to separate multiple statements on a single line.
Wrong number of parameters	This is an unlikely message to receive during a syntax check. The syntax check does not actually execute internal functions and therefore only minimal parameter validation occurs. This message indicates that a DAL function or procedure was called with the incorrect number of parameters. Check the documentation of the function for more information.
Wrong type of parameter	This message indicates that a parameter passed to a DAL function or procedure is not of a type that can be used by that routine. In most cases, DAL automatically handles the conversion of variables types, however, there are some variable types it cannot convert. For instance, a list variable can be assigned to another list variable, but it cannot be converted to a number or string. Therefore passing a list variable to a function expecting a string might cause such an error. This is an unlikely message to receive during a syntax check. The syntax check does not actually execute internal functions and therefore only minimal parameter validation occurs.
Invalid or unknown symbol	During a syntax check, Studio can only verify that the defined symbol follows the correct naming requirements. The syntax check cannot verify whether functions or variables you might use will exist at runtime. Encountering this error during a syntax check means the defined item does not conform to naming requirements. If a DAL variable or function you reference does not exist at the point where it is referenced during the runtime execution of the script, you will not receive this message at that time.
Invalid assignment statement	This means you have created an invalid arithmetic or assignment statement. Typically this indicates you forgot the assignment operator or omitted an expected arithmetic operator. For instance, AVAR=BVAR is correct syntax; using AVAR==BVAR would generate the invalid assignment statement message because the operator == is unknown. AVAR BVAR (with no operator specified) also generates the invalid assignment statement message.
Cannot modify target	This message indicates the script is incorrectly trying to assign or change data associated with a constant (or keyword) item that cannot be changed. An example of this is to use a statement like 1 = AVAR. You cannot change the constant value of 1 in this case. A situation where you might encounter this error is when you attempt use a variable that happens to have the same name as a defined function or DAL routine.
Unexpected internal error	This message indicates the script processing has resulted in a condition that was not expected. It is difficult to predict when you might receive this error, although it is probably more likely to be encountered during runtime execution of the script than during a syntax check. Typically, this message indicates you have an expression or function parameters that do not resolve to an expected state.
Missing or mismatched parenthesis	This message indicates the number of opening and closing parentheses used within the statement do not match. For each open parenthesis, there should be a closing parenthesis.

Error	Description
Invalid IF statement	This message indicates there is some problem with the construction of the IF statement. It could mean you have forgotten a parenthesis, or a quote around a constant, or that a subsequent keyword limited to use within an IF statement was encountered outside of the IF structure. This would include these keywords: ELSE, ELSEIF, and END.
Unexpected after ELSE	(24) The ELSE statement is the final branch of an IF statement. This error will be generated if another ELSE or ELSEIF condition is found that appears to belong to the same IF statement.
CONTINUE outside of WHILE	(25) The CONTINUE statement is only valid when used within a WHILE-WEND statement group.This error may not always be caught by syntax checking, but will be during runtime execution.
BREAK outside of WHILE	(26) The BREAK statement is only valid when used within a WHILE-WEND statement group.This error may not always be caught by syntax checking, but will be during runtime execution.
Invalid WHILE statement	(27) This message indicates a WHILE statement did not end with a WEND or that a WEND statement was encountered without a WHILE.
Unexpected WEND statement	(28) Similar to the invalid WHILE statement message, this message indicates a WEND statement was encountered incorrectly.This error may not always be caught by syntax checking, but will be during runtime execution.
Unexpected end of script	This message indicates the end of the script was encountered before finding an expected keyword or that the script was empty. Such a condition can occur if you fail to terminate an IF statement with an END or a WHILE statement with a WEND before encountering the end of the script. This error may not always be caught by syntax checking, but will be during runtime execution.
Invalid expression syntax	This error indicates the expression did not result in a value as expected. Such a situation can occur if you called a function or procedure that expected a value and none was returned. Since the syntax check does not actually execute internal functions, it is not always possible to identify this problem prior to runtime. This error may not always be caught by syntax checking, but will be during runtime execution.
Attempt to divide by zero	This message indicates the expression results in an attempt to divide a numerator by zero. This is an undefined mathematical situation and is flagged as an error by most processors. In most cases, this message appears during runtime execution. The syntax checker only catches this situation if the expression explicitly uses a zero constant as a devisor.
No result value returned	This message is unlikely to be generated during a syntax check. The message indicates that a function or called DAL script or routine did not place a return value on the internal stack. If the code is calling a DAL routine, make sure all the RETURN statements in the called script include a return parameter and that there is a RETURN statement at the end of the script.
Statement label already used	This message indicates the same label used as a destination for a GOTO statement has been defined in multiple places within the same script. This error may not always be caught by syntax checking, but will be during runtime execution.

Error	Description
Unknown statement label	This message indicates the label defined as the destination for a GOTO statement could not be located within the defined script. Typically, this means you have incorrectly identified the label in the GOTO statement or have omitted the label destination in the script. Make sure to name the destination label on the GOTO statement with the tailing colon. GOTO BOB (incorrect) GOTO BOB: (correct)
Invalid statement label	This message indicates the defined label does not conform to the definition requirements of a GOTO label. Statement labels have the same requirement as string variables and must begin with a letter and be no more than 64 characters in length, including the terminating colon on the end of the name.
Function out of place	This message indicates you have called a function which must return a value, but did not define the expression in a way to use the resulting value. For instance, the HaveForm function must return a zero or one to indicate if the defined form is included in the document set. If you use this function without capturing or testing the returned value, this message appears. Since the syntax checker does not actually execute internal functions, it is unable to identify when such a situation might exist. These errors occur during the runtime execution of the script.
Illegal parameter value	This message indicates you have called a function or procedure with an invalid parameter value. Since the syntax checker does not actually execute internal functions, it is unable to identify when such a situation might exist. These errors occur during the runtime execution of the script.
Table has not been opened	(22) This message indicates a function or procedure was called with a parameter naming a table, such as a database file, that was not explicitly opened.Since the syntax checker does not actually execute internal functions, it is unable to identify when such a situation might exist. These errors occur during the runtime execution of the script.If you encounter this error, make sure that the DBOPEN statement was not skipped due to an IF statement or GOTO operation.

Chapter 12

Managing Resources

This chapter discusses how you can store the resources that comprise your forms in libraries and use Studio and other tools to manage those resources.

Included in this chapter is information on:

- *Overview* on page 560
- *Creating Libraries* on page 578
- Working with Libraries on page 604
- Using the LBYPROC Utility on page 653
- Troubleshooting on page 654

OVERVIEW

You use a variety of resources to build a form set. These resources can include sections (FAP files), graphics (LOG files), and processing scripts (DAL scripts).

Studio creates a library that stores these resources and provides features that let you manage those resources. For instance, Studio lets you date stamp a resource so it will not be used until its *effective date* is reached.

As you work with resources, such as sections or graphics, Studio lets you check resources into and out of the library. When a resource is checked out, Studio marks that resource as being locked and prevents others from checking it out until it is checked back in. In this way Documaker Studio facilitates a multiple user work environment.

Documaker Entry environments use the library management capabilities to get the appropriate version of a resource, based on the effective date of the documents being generated.

Likewise, Documaker Server uses the library management capabilities to load the correct resources from the library when needed. And, the Documaker Bridge for Docupresentment uses library management capabilities to retrieve the correct version of each of the resources used when the document was archived.

To better understand library management, it is important for you to become familiar with the following topics:

- Terminology on page 561
- Concepts on page 563
- *How It All Works* on page 572
- Managing Workflow on page 577
- Working with Libraries on page 604

TERMINOLOGY

Before you begin managing your resources in libraries, there are some terms you should understand and concepts you should be familiar with.

Check in

The process of putting a resource into the library initially, or back into the library after you have checked that resource out.

Check out

The process of selecting a resource from a library. When you select the resource, it is locked to your User ID. It remains locked until you check the resource back in.

Effective dates

A field in the library index that is associated with a resource in the library. This field indicates the date at which the resource is available for use, or when it will become effective.

Default effective dates

A default effective date can be set for new resources being checked into a workspace. Documaker Studio remembers the last date used for a new resource and uses that date as the default for the next new resource.

Effective Date Management

The Effective Date Management configuration options Stringent Checking and Effective Date Management allow you to define a date which Studio will use when evaluating which version or revision of a resource to select and display. See *Working with Configuration Options* for information on Effective Date Management.

Expire

The process of designating a library resource as being unavailable for use beginning with a supplied expiration date.

Extract

The process of making a copy of a resource in a library and writing that copy to disk.

Libraries

Refers to the physical files in which the resources are stored. Logically, a library is divided into an index portion and a data portion.

Modification dates

A field in the library index that contains a timestamp indicating the date and time the resource was last modified or checked in to the library. This field is in hexadecimal format in the index but is formatted to a more readable format when displayed in the tools.

Revisions

A field in the library index that indicates the minor change number. The revision number is generally incremented by one each time a resource is checked out and back in. If, however, the version number is incremented, the revision number is reset to 1 for that version. A revision number consists of five digits, such as 00001.

Note When a resource is expired, the revision field is set to EXP.

Response files

In Documaker terms, a file created by the LBRYMGR utility that contains commands and data. These commands and data are then read by Studio (or the LBRYMGR utility) and processed accordingly.

Promotion

The process of copying (or promoting) resources from one library to another library, based on criteria you specify. Resources from the source library that have a newer modification date than resources, with a corresponding name, in the target library, are copied to the target library.

Unlock

The process of removing the lock from a resource that you have previously checked out. Only the user who locked the resource can unlock it.

Versions

A field in the library index that indicates the major change number. The version number is only incremented upon check in when you check the Increment Version field. If you want to change the effective date for the resource you are checking in, you are forced to check the Increment Version field before you are allowed to type a new effective date.

In Documaker 10.2 and higher, a version number consists of five digits, such as 00001.

CONCEPTS

In addition to the terminology you should be familiar with, there are several concepts:

- Understanding Library File Structure on page 563
- Processing with Effective Dates on page 565
- Setting the Default Effective Date on page 566
- Stringently Checking Resources on page 568
- Understanding Run Dates on page 570
- *Refreshing the Display* on page 571

To begin working in the library, please to go Working with Libraries on page 604.

Understanding Library File Structure

Documaker library model is a Structured Query Language (SQL) index with an Open Database Connectivity (ODBC) file repository. The library has these components:

- Index table
- Data table
- Catalog table
- Library Log table
- **Note** You are only concerned with the library type when you are creating a new workspace or using Manage, Settings, Libraries to define a new library.

The index table includes these fields. The maximum length is indicated in parentheses:

Field	Description
FileType (3)	This field can contains a value that defines the type of resource this row refers to, such as FAP, LOG, BDF, GRP, or DAL.
FileSTyp (3)	This field indicates the sub type of the resource this row refers to. This field is not currently used and is usually set to the value of the FileType field.
FileName (100)	This field indicates the name of the resource, such as Q1SNAM, Q1ADDR, or IMAGE1. The name can consist of up to 100 characters.
Resource (25)	Reserved for future use.
Descript (100)	This field contains a description of the resource or the last change made to it. You can enter up to 100 characters.

Field	Description
Effective (10)	This field contains the date on which you want this resource to become available for processing. This date is stored in D4 format (YYYYMMDD) in the library index. Depending on your locale setting (Choose Settings, then go to the Locale option in the Language control group), you may see the date displayed in other formats like MMDDYYYY or DDMMYYYY.
ModifyTm (10)	This field indicates the date and time the resource was last checked in or modified. This date appears in the appropriate format for your locale setting, along with the time.
FileIndx (8)	This field contains a number that, for xBase implementations, connects this index record to a compressed file in the data portion of the library.
RecStat (3)	This field indicates whether this resource is locked or not. If locked, the field contains <i>LOC</i> , otherwise it is blank.
Version (5)	This field contains the version number of this resource. The version number starts at 00001 and, as the resource is checked out and checked in, is incremented if you have checked the Increment Version field.
Revision (5)	This field contains the revision number of this resource. The revision number starts at 00001 and, as the resource is checked out and checked in, is incremented. If you have checked the Increment Version field, the version number is incremented instead of the revision number and the revision number is reset to 00001. When a resource is expired, the revision field is set to <i>EXP</i> .
UserID (64)	This field shows you the user ID of the user who last modified the resource, or who has the resource checked out. This ID can consist of up to 64 characters.
UsrLevl (2)	Reserved for future use.
Passwd (64)	Reserved for future use.
Unique_ID (26)	This field contains a unique identifier used for internal purposes.
ArcKey (18)	This key is used with DBMS implementations of the library to connect this index record to a row in the data table of the library. When using a DBMS, this field is used instead of the FILEINDX field, which is used in xBase implementations of the library.
LibName (129)	This is the name of the library. This name can consist of up to 129 characters.
AppData (10)	This field can contains up to 10 characters of additional, customer-specific application data.
Mode (25)	This field indicates the mode of the resource. You define the modes using the Manage, Settings options. For instance, you could set up modes to denote milestones in the development process such as Development, Testing, and Production. You can enter up to 25 characters. For more information, see <i>Defining Mode, Status, Class, and Project Options</i> on page 646.
Status (25)	This field indicates the status of the resource. You define the status codes using the Manage, Settings options. For instance, you could have codes like Pass or Fail. You can enter up to 25 characters. For more information, see <i>Defining Mode, Status, Class, and Project Options</i> on page 646.

Field	Description
Class (25)	This field indicates the class of the resource. You define classes using the Manage, Settings options. You can use classes to group resources by product lines or by geographical regions, such as GA, TX, or MD. You can enter up to 25 characters. For more information, see <i>Defining Mode, Status, Class, and Project Options</i> on page 646.
Project (25)	This field indicates the project code that last modified this resource. You define project codes using the Manage, Settings options. You can enter up to 25 characters. For more information, see <i>Defining Mode, Status, Class, and Project Options</i> on page 646.

While the index portion of the library contains attributes for each version/revision combination of a resource that is stored in the library, the data portion of the library contains the resources themselves.

The structure of the data portion of the library depends on how the library is defined (xBase, DBMS, Documanage), but in general, the data portion contains each of the version/revision combinations of the resources listed in the library index.

Processing with Effective Dates

Because document requirements change over time, your forms will evolve. Studio lets you assign effective dates to resources so you can make changes ahead of time while making sure those changes are put in effect only when appropriate. You can change the content of a form as necessary and control the date at which the new form takes effect. Using effective dates also lets you preserve prior versions of a form so when you need to retrieve a version of a form that was effective, for example, a year ago, you can.

In the Documaker system, a form can be composed of one or more sections. A section is also called a FAP file because *fap* is the extension the Studio applies. So, if a form needs to be changed, then one or more of the sections (FAP files) that comprise the form need to be changed.

For example, you have a form called *DEC PAGE*. This form consists of these sections...

- Q1SNAM
- Q1MDC1
- Q1MDC2
- Q1MDC3

The Q1SNAM section contains the company's corporate address. The company's corporate address is going to change next month. and you want to go ahead and change the address to reflect the change.

You can check out the Q1SNAM section (FAP), make the address change, then check in the Q1SNAM section and set the effective date for this new version of Q1SNAM to the first of next month.

If the DEC PAGE form is assembled at any time this month, the version of Q1SNAM that is effective this month (the older one) is used. If the DEC PAGE form is assembled next month, the version of Q1SNAM that is effective next month (the newer one) is used.

This example uses a FAP file to demonstrate how the effective date of a resource can be used to cause a different version of that resource to be used at the appropriate time. You can also manage graphics (LOG files) and DAL scripts in the same way.

Note Keep in mind if you are triggering forms based on effective date processing: If possible, avoid creating forms with effective dates that require updated printer resource files, such as fonts, form overlays, bitmap files, and so on.

Otherwise, make sure you have the corresponding set of printer resource files for the forms based on the effective date to be processed.

Setting the Default Effective Date

You can set a default effective date for new resources being checked into a workspace. Previously, workspace creation and import would default the date to

1-1-1980, while the check-in window for a new resource would default to the current date.

Studio now remembers the last date used for a new resource or workspace creation and uses that date as the default for the next new resource. You can, of course, override the date.

Note If no default value is found for the workspace, Studio uses Jan 1, 1980.

The default date is stored as a registry item by workspace name so if you have more than one workspace, each can have a different default. The date string is stored in

YYYYMMDD format.

When a workspace is created, the default library date is stored in the registry. When new resources are checked into the workspace, the library effective date field defaults to the last value used for a new resource.

Studio does not update the registry for existing library items that you give a new version effective date. To modify the default date for a workspace, change the effective date on a new library resource.

Also, other locations that query for a default effective date will use this same value. This includes the various import and conversion features where resources are checked into the library.

Retrieving Resources with Version and Revision Numbers

When a resource is added to the library it is assigned a *version* number and a *revision* number. A resource added to the library for the first time is given a version number of 00001 and a revision number of 00001. The version number and revision number change as the resource is checked out, changed, and checked back in.

Generally, if you check out a resource to make a small change, the revision number of the resource is incremented by one when you check in the resource. If you make a major change to the resource, or if this change requires you also change the effective date, the version number is incremented by one. The version number is considered a *major* number and the revision number is considered a *minor* number. Typically, version/revision numbers are shown in this format:

version.revision

and leading zeros are omitted. So version 00001, revision 00003 is referred to as 1.3.

Note Documaker (versions 10.2 and higher) enforces the rule that all revisions of a particular version of a resource must have the same effective date. Prior to version 10.2, Documaker allowed revisions of a particular version of a resource to have different effective dates.

When you request a resource, the request generally supplies a resource type (FAP, LOG, or DAL), a name (such as Q1SNAM) and a run date (such as 20071225, which is December 25, 2007). Studio searches the library index for items that match that name and type, then chooses the one which has an effective date closest to, but not exceeding, the run date.

If Studio finds there are two or more versions of the same resource with the same effective date, it chooses the one with the higher version/revision number. For instance, the version/revision 2.1 is considered to be higher than the version/revision 1.2, so between these two resources, Studio would choose 2.1.

Stringently Checking Resources

In Documaker 10.3

In Documaker 10.3 and higher, the StringentChecking option defaults to Yes. Stringent checking means that if Studio finds versions of a resource in the library but none are effective yet — their effective date is greater than the run date being used it will not return any of those resources.

Although you should leave the StringentChecking option set to Yes, you can, however, override it, as shown here:

```
< LibraryManager >
StringentChecking = No
```

When StringentChecking is set to No, Studio tries to return some version of the resource, even if that resource is not yet effective. If Studio finds versions of a resource in the library but none are effective yet, Studio returns the resource with the oldest effective date.

If the StringentChecking option is set to No and Studio does not find any versions of the resource in the library, it tries to find the resource on disk, in the location designated for that resource type in the INI file. If it finds the resource on disk, it returns that resource.

In Documaker 10.2 and earlier

In Documaker 10.2 and earlier, the StringentChecking option defaults to No. If the system finds versions of a resource in the library but none of those versions are effective yet, it returns the oldest version/revision of that resource.

If the system does not find any versions of the resource in the library, it tries to find the resource on disk, in the location designated for that resource type in the INI file. If it finds the resource on disk, it returns that resource.

For DDT files only, if you want the system to issue an error message or to perform specialized processing, you can set the StringentChecking option to Yes. In Documaker 10.2, stringent checking is only available for DDT resources and only affects the GenData program.

You can use these INI options to control the stringent checking of DDT resources:

```
< DDTResource >
   ErrorOnMissingFile = Yes
   RemoveImageMissingDDT = No
   StringentChecking = No
   WarnOnMissingFile = Yes
```

Option	Description
ErrorOnMissingFile	The system normally generates an error if a DDT file cannot be found for a triggered section. Errors are written to a file, named using the ErrFile option in the Data control group.
	This file is typically called ERRFILE.DAT. Set this option to No to prevent the system from generating an error message when it cannot find the DDT file. The default is Yes.

Option	Description		
RemoveImageMissingDDT	A DDT file is normally required for any triggered section and not finding a section is a fatal error for a transaction. Setting this option to Yes tells the system that when it cannot find a DDT file for a triggered section, it should remove the section from the form set.		
	This can result in the removal of the form as well if all sections are removed. An empty form set can result if all of the forms are removed. If this results in an empty form set, the system generates an error message. The default is No.		
StringentChecking	Normally, if the system does not find an effective version of the file, it returns the oldest version/revision of the file. If, however, you set this option to Yes, only an effective version of the file will be returned. If no such file exists, nothing is returned. Stringent checking is only applicable when you use the system to control effective date eligibility of DDT files. The default is No.		
WarnOnMissingFile	Normally, the system generates an error if it cannot find a DDT file for a triggered section. You can, however, suppress this error by setting the ErrorOnMissingFile option to No. When you suppress this type of error, the system assumes you still want a warning message but by setting this option to No, even the warning message is suppressed. The default is Yes.		

Understanding Run Dates

The idea behind effective date processing is that, within a library, there can be multiple versions of a resource, each with a different effective date. When the system creates a form set, it is built with the version (and revision) of the resources that were, or will be, effective on a given date. In Documaker, this date is called the *run date*. In Documaker Desktop it is called the *create date*.

When using Studio to manage your resources, you must use run dates for the system to construct, archive, and retrieve your form sets correctly. Be sure to:

- Define the RunDate field in your TRNDFDFL.DFD, RCBDFDFL.DFD, and APPIDX.DFD Data Format Definition (DFD) files.
- Create the extract file to include the run date for each transaction's set of records.
- Use the TRN_FIELDS control group to indicate the location of the RunDate and other fields in the extract file. The GenTrn program uses this control group.
- Set the RunDate option in the Trigger2Archive control group as shown here to make the GenArc program populate the APPIDX file with the RunDate from the NEWTRN file:

```
< Trigger2Archive >
RunDate = RunDate
```

• Set the RunDate option in the AFEWIP2ArchiveRecord control group to make Documaker Desktop (PPS) populate the APPIDX file with the value of the creation date in the WIP index:

```
< AFEWIP2ArchiveRecord >
RunDate = CreateTime,X
```

If you follow the guidelines above, the system will behave as described here:

- When the GenTrn program runs, the value in the RunDate field for each transaction is read from the extract file and copied into the TRNFILE.
- When the GenData program runs, it uses the value in the RunDate field in the TRNFILE for each transaction and loads the appropriate resources from the library.
- When the GenPrint program runs, it uses the value in the RunDate field, if necessary, in the recipient batch files for each transaction.
- When the GenArc program runs, it copies the value in the RunDate field from the NEWTRN file into the APPIDX file, using the RunDate option in the Trigger2Archive control group.
- When you archive a form set in Documaker Desktop, the value in the CreateTime field is converted from hexadecimal format to D4 format (YYYYMMDD) and copied into the APPIDX file.

When you retrieve that form set, the value in the CreateTime field that was saved into the APPIDX file can be used to load objects, such as FAP files and graphics, from the library as required to reconstruct the form set.

Keep in mind the run date should be in D4 format, which is YYYYMMDD. If your run date is not in D4 format, you can convert it using additional INI options.

To make sure the value in the RunDate field is part of the TRNDFDFL.DFD, RCBDFDFL.DFD, and APPIDX.DFD files, make sure these DFD files contain entries for the RunDate field, as shown below. The DFD files shipped with your system contain similar entries. DFD files are generally stored in the \DEFLIB directory. In each of these DFD files, you should have an entry for the RunDate field and an entry that describes the attributes of the RunDate field. These entries will look similar to those shown here:

```
< Fields >
   FieldName
                 = RunDate
< FIELD:RunDate >
             = CHAR_ARRAY
h = 8
   EXT_Type
EXT_Length
   EXT Precision = 0
   INT_Type
               = CHAR ARRAY
   INT Length
               = 8
   INT Precision = 0
                 = No
   Key
                 = Yes
   Required
```

If you did not place the RunDate field in the TRNDFDFL.DFD, RCBDFDFL.DFD, and APPIDX.DFD files, you can use the GetRunDate rule to get the current system date and use it as the RunDate for each transaction. Keep in mind that using the GetRunDate rule limits you to using the current date as the run date, which may not always be the date you want to use.

Refreshing the Display

By default, Studio refreshes the display automatically. You can, however, use the LibAutoRefresh INI option to turn off the automatic refresh:

libraryManager	
9 X Z 4 9 9 0	
LibraryManager	
Class	
DefaultPromoteSelectedOn	No
KeepFileOnCheckin	No
LRYLogFile	
LibAutoRefresh	No

In most cases, there is no need to change this option from the default (Yes) to No. If, however, you have multiple users in Studio and performance slows, setting this option to No can improve performance.

Keep in mind that if you set the LibAutoRefresh option to No, you will have to manually refresh your screen.

How IT ALL WORKS

The following topics describe how Documaker software uses these concepts in everyday processing.

In Documaker Desktop

Entry

When you use Documaker Desktop (or PPS) to create a new form set or transaction, the current system date is used to note when the form set was created. This value is stored in the CreateTime field, which is equivalent to the RunDate field in Documaker.

You can change this date by clicking on the Effective Date control and choosing a different date from the calendar. You can hide the Effective Date control using this option:

```
< Control >
ShowEffectiveDate = No
```

The effective date specified — whether the current date or another date — is the date compared against the effective dates associated with the resources, such as FAP files and graphics, pulled from the library.

Example 1 - Multiple versions, different effective dates

Say today's date is 10/25/2007 and the form set you are creating requires a form called *DEC PAGE*. The DEC PAGE form is comprised of these FAP files:

- Q1SNAM
- Q1MDC1
- Q1MDC2
- Q1MDC3

Assume the following versions of the Q1SNAM FAP are in the library:

Form set	Version	Revision	Effective Date
Q1SNAM	00001	00001	20070131
Q1SNAM	00001	00002	20070731
Q1SNAM	00002	00001	20071231

Since the run date is 20071025 (10/25/2007), Studio chooses version 00001, revision 00002 (version 1.2) of Q1SNAM because it has an effective date (20070731) and that is the latest date that does not exceed the run date (20071025).

Note This example shows two revisions, 1.1 and 1.2, of version 1 which contain different effective dates. Though Documaker 10.2 and higher enforce the rule that all revisions of a particular version of a resource must have the same effective date, if you have migrated a library from a prior version, your library can contain resources that do not adhere to this restriction. This situation will not cause errors.

Example 2 - Multiple versions, same effective dates

Say today's date is 10/25/2007 and the form set you are creating requires a form called *DEC PAGE*. The DEC PAGE form is comprised of these FAP files:

- Q1SNAM
- Q1MDC1
- Q1MDC2
- Q1MDC3

Assume the following versions of the Q1SNAM FAP are in the library:

Form set	Version	Revision	Effective Date
Q1SNAM	00001	00001	20070731
Q1SNAM	00001	00002	20070731
Q1SNAM	00001	00003	20070731
Q1SNAM	00002	00001	20071231

The run date is 20071025 (10/25/2007), so the latest effective for Q1SNAM that does not exceed the run date is 20070731. There are three version/revisions of Q1SNAM that have the most correct effective date, versions 1.1, 1.2, and 1.3. Studio chooses version 1.3 because it has the highest version/revision number.

Sometimes, you might create a form set and decide to base that new form set on an older one from archive. To do this, you first choose the New, Retrieve Data option to select the form set from archive. By default, the new form set would consist of the same version/revisions of the forms from the archived form set.

If, instead, you want the new form set to be comprised of the same forms as the archived form set, but with newer versions/revisions of those forms — if they exist — you must use this INI option:

```
< FormSelection >
RetrieveVersionInfo = No
```

WIP

When you save a form set to WIP (by choosing File, Save or WIP, Save), the system writes a record to the WIP index table and two WIP data files are written to the \WIP directory. By default, the WIP index table is named *WIP* and is composed of these files:

- WIP.DBF
- WIP.MDX

The two WIP data files written to the \WIP directory are essentially an NAFILE and a POLFILE. These files may be named something like:

D4234FF15243414FB1B504379EC76D0D.dat (this is the NAFILE) D4234FF15243414FB1B504379EC76D0D.pol (this is the POLFILE)

Prior to version 10.2 of Documaker Desktop, the WIP data files had names such as:

00000001.dat (this is the NAFILE) 00000001.pol (this is the POLFILE)

If you migrated to version 10.2 of Documaker Desktop from a prior version and have a WIP index (WIP.DBF and WIP.MDX), your WIP data files have the shorter names. Depending on the configuration, the resources in the NAFILE.DAT file may have version, revision, and effective date information in the \NA=... record. Here is an example:

```
\NA=qlsnam,LN=1,DUP=OFF,SIZE=C,TRAY=U,X=0,Y=0,PA=1,OPT=D\
\ENDIMAGE\
\NA=qlmdc1,LN=1,DUP=OFF,SIZE=C,TRAY=U,X=0,Y=3360,PA=1,OPT=DS,V=1,R=1
,D=20020911\
ENDIMAGE\
```

Notice the \NA=q1mdc1... record contains these options and values:

- V=1
- R=1
- D=20020911

These values represent the specific version, revision, and effective date of Q1MDC1, pulled from the library when this form set was created. Notice that the \NA=q1snam... record does not contain these values.

After saving this form set to WIP, you might later return to retrieve this form set. When reconstructing the form set, for those sections listed in the NAFILE.DAT file that contain the V, R, and D options and values, the system retrieves the specific version and revision of the section listed.

For those sections listed in the NAFILE.DAT file that do not contain the V, R, and D options, Documaker Desktop gets a run date and uses that date to retrieve the correct version/revision of the sections. Documaker Desktop gets its run date by looking for a value in these locations:

- The RunDate field in the WIP index
- The CreateTime field in the WIP index
- The current system date

If the RunDate field does not exist or is empty, Documaker Desktop looks in the CreateTime field. If the CreateTime field does not exist or is empty, it uses the current system date.

Archive and retrieval

When a form set is archived, its NAFILE and POLFILE contents are stored in an archive file or table (called a CARFile — Compressed Archive File) and some (or all) of the information that was in the WIP index (if it was archived from WIP) or in the NEWTRN file (if it was archived using the GenArc program) is stored into the application index (APPIDX) table. One of the fields in the APPIDX table is called *RunDate*.

You can retrieve a form set from archive in Documaker Desktop by choosing the Retrieve, Formset option. When reconstructing the form set, for those sections listed in the NAFILE file that contain the V, R, and D options and values, the system retrieves the specific version and revision of the section that is listed.

For those sections listed in the NAFILE that do not contain the V, R, and D options, Documaker Desktop gets a run date and uses that date to retrieve the correct version/ revision of the sections. Documaker Desktop gets its run date by looking for a value in these locations:

- The RunDate field in the application index (APPIDX)
- The CreateTime field in the application index
- The current system date

If the RunDate field does not exist or is empty, Documaker Desktop looks in the CreateTime field. If the CreateTime field does not exist or is empty, it uses the current system date.

In Documaker Server

The GenData and GenPrint programs in Documaker Server will generally need to load resources (such as FAP files, LOG files, and DAL scripts). To retrieve the resource with the appropriate effective date, the system needs to know the run date for each form set to be generated.

The GenTrn program gets the run date from the extract file, for each transaction and writes the run date to the TRNFILE.

The GenData program gets the run date from a Global Variable Manager (GVM) variable named *RunDate*. The RunDate GVM is set by:

• A value in the TRNFILE file

or

• The GetRunDate rule, which copies the current system date into the RunDate GVM

As the GenData program processes transactions, the run date is written to the NEWTRN file and to the recipient batch files, provided the TRNDFDFL.DFD and RCBDFDFL.DFD files contain the RunDate field.

The GenPrint program reads the NAFILE, POLFILE, and recipient batch files. When it needs to load a resource referenced in the NAFILE, such as a FAP or graphic file, it asks for the specific version and revision of the resource if those values are listed in the NAFILE.

For example, in this NAFILE excerpt:

```
\NA=q1snam,LN=1,DUP=OFF,SIZE=C,TRAY=U,X=0,Y=0,PA=1,OPT=D\
\ENDIMAGE\
\NA=q1mdc1,LN=1,DUP=OFF,SIZE=C,TRAY=U,X=0,Y=3360,PA=1,OPT=DS,V=1,R=1
,D=20070911\
\ENDIMAGE\
```

The Q1MDC1 FAP file contains these options:

- V=1
- R=1
- D=20070911

These options and values represent version 1, revision 1 (1.1) and an effective date of 9/11/2007. If the GenPrint program needs to load Q1MDC1, it asks for version 1.1 of this file.

On the other hand, for Q1SNAM, the V, R, and D options and values do not exist in the NAFILE, so if the GenPrint program needs to load this file, the system uses the run date specified in the recipient batch file to determine the correct version and revision of the FAP file to retrieve.

In Docupresentment (IDS)

When you use the Documaker Bridge to retrieve archived form sets, you can also use library management to retrieve the correct version and revision of any objects, such as FAP and graphic files, referenced in the form set.

To configure Docupresentment to use library management, follow these steps:

1. For each request type in the DOCSERV.INI file you want to use, specify the DPRInitLby rule in the rules list. Here is an example of how you can use the DPRInitLby rule and its location in the rule list for the PRT request type:

```
[ ReqType:PRT ]
function = atcw32->ATCLogTransaction
function = atcw32->ATCLoadAttachment
function = dprw32->DPRSetConfig
function = dprw32->DPRInitLby
function = dprw32->ATCUnloadAttachment
function = dprw32->DPRRetrieveFormset
function = dprw32->DPRPrint
function = dprw32->DPRProcessTemplates
```

2. For each configuration you want to use, specify the library name in that configuration's INI file. For example, if you are using the RPEX1 configuration, you would specify options similar to these in the RPEX1.INI file:

```
< MasterResource >
FormFile = master.lby
LogoFile = master.lby
DALFile = master.lby
LbyLib = e:\fap\mstrres\rpex1\deflib\
```

The FormFile, LogoFile, and DALFile options name the library and the LbyLib option names the location of the library.

3. Set the ARCEFFECTIVEDATE attachment variable before calling any rules that use the library, such as DPRRetrieveFormset. Refer to the Documaker SDK Reference Guide to determine which rules use the ARCEFFECTIVEDATE attachment variable.

The ARCEFFECTIVEDATE attachment variable is used by the Documaker Bridge to locate the appropriate version/revision of a resource if a specific version/revision is not indicated in the retrieved NAFILE. If you are using the Docupresentment CGI client, you can set the ARCEFFECTIVEDATE by specifying the following in the appropriate HTML templates:

```
<FORM METHOD="POST" ACTION="#EXENAME,#">
<INPUT NAME="USERID" VALUE="#USERID,%s#" TYPE="HIDDEN">
<INPUT NAME="DOCTYPE" VALUE="#DOCTYPE,%s#" TYPE="HIDDEN">
<INPUT NAME="REQTYPE" VALUE="PRT" TYPE="HIDDEN">
<INPUT NAME="CONFIG" VALUE="#CONFIG,%s#" TYPE="HIDDEN">
<INPUT NAME="CONFIG" VALUE="#CONFIG,%s#" TYPE="HIDDEN">
<INPUT NAME="ARCEFFECTIVEDATE" VALUE="#RUNDATE,%s#" TYPE="HIDDEN">
<INPUT NAME="ARCEFFECTIVEDATE" VALUE="#RUNDATE,%s#" TYPE="HIDDEN">
```

This copies the value of the RunDate attachment variable into the ARCEFFECTIVEDATE attachment variable. The RunDate attachment variable comes from the RunDate field of the archive application index (APPIDX) file. See *Understanding Run Dates* on page 570 to see how to make sure the APPIDX RunDate field is populated correctly.

MANAGING WORKFLOW

You can also manage the development, testing, and promotion of resources. Using one or more libraries, you can coordinate the creation and modification of section (FAP), graphics (LOG), and DAL script files. Locking of resources as they are checked out prevents multiple users from trying to change a particular resource at the same time. Prior versions of a resource are kept safe and can be restored if necessary.

As you test resources checked into a library, you can mark the resources as having passed or failed using the Status field on the File Information window. You can also promote them to another library for additional testing or for production use.

CREATING LIBRARIES

The way you create a resource library differs depending on how the library is stored. You have these choices:

- Using xBase and CARFiles on page 579
- Using the DB2 Native Driver on page 581
- Using the DB2 ODBC Driver on page 586
- Using the SQL Server ODBC Driver on page 591
- Using the Oracle ODBC Driver on page 594
- Using Oracle JDBC Driver on page 599

Specifying a catalog table for each library

You can specify a catalog table for each library stored in a database management system (DBMS). If you do this, Studio will only update the catalog table once per library per session, which reduces the chances of you receiving the duplicate index or -803 SQL error message.

You specify the catalog table using INI options. Here is an example:

```
< Library:LBYI >
   Catalog = LBYC
< DBTable:LBYC >
   DBHandler = DB2
< DB2_FileConvert >
   Catalog = DAP112 LBYC R1
```

USING XBASE AND CARFILES

You can use the xBase or CARFile format for the library on Windows, and Linux operating systems. By default, a Documaker library is stored in this file format:

- The index portion is stored as a xBase file (actually two files)
- The data portion is stored in a compressed file format referred to as a CARFile

The default library name is *MASTER.LBY*. Using this name, the system creates these files:

File	Description
MASTER.DBF	The DBF and MDX files make up the index portion of the library. The DBF component contains the index data and the MDX component contains tag information.
MASTER.MDX	The DBF and MDX files make up the index portion of the library. The DBF component of the index contains the index data and the MDX component contains tag information.
MASTER.LBY	The LBY file makes up the data portion of the library. This file contains the actual resources the index refers to. This file is in a compressed archive file (CARFile) format.

Creating the CARFile and Index Files

On Windows, and Linux

If you are using the xBase/CARFile format for the library index and data, Studio can create the library index and data files.

Sample INI options

Use INI options like the following to create a library in a CARFile format (index in xBase format) and to load resources from that library:

```
< MasterResource >
   BDFFile = master.lby
   DALFile = master.lby
   DDTFile = master.lby
   FORFile = master.lby
   GRPFile = master.lby
   LbyLib = ..\mstrres\deflib\
   LogoFile = master.lby
<< LibraryManager >
   LbyLogFile= lbylog
```

Option Description

MasterResource control group

BDFFile	This option tells the system you want to retrieve business definition (BDF) resources from a library named MASTER.LBY.
DALFile	This option tells the system you want to retrieve DAL scripts and DAL script libraries from a library named <i>MASTER.LBY</i> .
DDTFile	This option tells the system you want to retrieve DDT files from a library named <i>MASTER.LBY</i> .

Option	Description
FORFile	This option tells the system you want to retrieve form (FOR) resources from a library named MASTER.LBY.
FormFile	This option tells the system you want to retrieve FAP files from a library named <i>MASTER.LBY</i> .
GRPFile	This option tells the system you want to retrieve group form (GRP) resources from a library named MASTER.LBY.
LbyLib	This option tells the system that the MASTER.LBY file and the two files that make up its index (MASTER.DBF and MASTER.MDX), reside in the location specified by the relative path\mstrres\deflib\.
LogoFile	This option tells the system you want to retrieve graphics (LOG) files from a library named <i>MASTER.LBY</i> .
LibraryManager control group	

i f	This option tells the system the name of the library log file is <i>LBYLOG</i> . The library log contains information about resources added to, deleted from, or updated in the library. The library log file does not have to use the same type of database handler as the library index and data portions.
--------	--

Specifying a DFD file for the library data table

A Data Format Definition (DFD) file is used to describe the layout of the fields in another file. The description includes the name, data type, and length of each field in the file.

Several files used by Documaker adhere to pre-defined internal structure definitions so there is usually no need to create and specify DFD files for those files. The library's data and index portions are two examples of files that usually adhere to a pre-defined internal structure.

There are cases, however, when you must specify the structure of the data portion of the library using a DFD file. Prior to version 11.2, you made this DFD specification via the CARFileDFD option. For example, if your library data table was called *LBYD* and the DFD was named *CARDB2.DFD*, you would have specified the DFD as shown here:

```
< ArcRet >
CARFileDFD= DEFLIB\cardb2.dfd
```

This CarFileDFD option, however, is also used by the GenArc program and if a different value was needed for archival purposes, you had to maintain a different INI file for that process. In version 11.2 and in subsequent versions, instead of using the CARFileDFD option, you can specify the library data file's DFD using the DFD option, as shown here:

```
< DBTable:LBYD >
DBHandler = DB2
DFD = DEFLIB\LBYD_DB2.dfd
```

This DFD option does not conflict with the CARFileDFD option used by the GenArc program.

USING THE DB2 NATIVE DRIVER

You can use the DB2 native driver — using DB2 but not going through ODBC — with the Windows, and Linux operating systems.

Creating the Database and Tables

On Windows, and Linux

On Windows, and Linux you can have the LBRYMGR utility create the library index, data and catalog tables or you can create them beforehand. To tell the LBRYMGR utility to create the library and catalog tables, specify this INI option:

```
< DBHandler:DB2 >
CreateTable = Yes
```

Note For more information about the LBRYMGR utility, see the Utilities Reference.

To create the DB2 library and catalog tables manually, execute an SQL script like the one provided with the RPEX1 sample resources in this directory:

..rpex1\deflib\db2\lbysqlr.cmd

This file is also listed below:

CONNECT TO LBYLIB;

_____ -- DDL Statements for table "DAP110 CAT R1" _____ CREATE TABLE "DAP110 CAT R1" ("CATALOGID" CHAR(10) , "CARFILE" CHAR(8) , "MEDIAID" CHAR(11) , "LASTNUM" CHAR(8) , "STATUS" CHAR(1)) IN "USERSPACE1" ; -- DDL Statements for table "DAP110 LBYI R1" -----CREATE TABLE "DAP110 LBYI R1" ("FILETYPE" CHAR(3) , "FILESTYP" CHAR(3) "FILENAME" CHAR(100) , "RESOURCE" CHAR(25) , "DESCRIPT" CHAR(100) , "EFFECTIV" CHAR(10) , "MODIFYTM" CHAR(10) , "FILEINDX" CHAR(8) , "RECSTAT" CHAR(3) , "VERSION" CHAR(5) , "REVISION" CHAR(5) , "USERID" CHAR(64) , "USRLEVL" CHAR(2) , "PASSWD" CHAR(64) , "UNIQUE ID" CHAR(26) "ARCKEY" CHAR(18) , "MODE" CHAR(25) "STATUS" CHAR(25) , "CLASS" CHAR(25) ,

TERMINATE;

If you manually create the DB2 tables by running using this script, set the CreateTable option to No when you later run Documaker. Here is an example:

< DBHandler:DB2 > CreateTable = No

Sample INI Options

Here is an example of how you can set up your INI options to use the DB2 native driver to load resources from a library defined in DB2:

```
< MasterResource >
```

```
BDFFile = LBYI
   DALFile = LBYI
   DDTFile = LBYI
   FORFile = LBYI
   FormFile = LBYI
   GRPFile = LBYI
LogoFile = LBYI
< LibraryManager >
   LBYLogFile= LBYLOG
< Library:LBYI >
   DBTable = LBYD
< DBTable:LBYI >
   DBHandler = DB2
< DBTable:LBYD >
   DBHandler = DB2
   UniqueTag = ARCKEY+SEQ_NUM
< DBTable:LBYLOG >
   DBHandler = DB2
< DBTable:CATALOG >
   DBHandler = DB2
   UniqueTag = CATALOGID
< DBHandler:DB2 >
   Class
           = DB2
   CreateIndex= No
   CreateTable= Yes
   Database = LBYDBASE
            = No
   Debug
          = password
   Passwd
   UserID = userID
< DB2 FileConvert >
   LBYI
           = DAP110 LBYI R1
   LBYD
           = DAP110 LBYD R1
   LBYLog
          = DAP110_LBYLOG_R1
```

Option Description

MasterResource control group

BDFFile	This option tells the system you want to retrieve business definition (BDF) resources from a library named <i>LBYI</i> .
DALFile	This option tells the system you want to retrieve DAL scripts and DAL script libraries from a library named <i>LBYI</i> .
DDTFile	This option tells the system you want to retrieve DDT files from a library named LBYI.
FORFile	This option tells the system you want to retrieve form (FOR) resources from a library named <i>LBYI</i> .
FormFile	This option tells the system you want to retrieve FAP files from a library named LBYI.
GRPFile	This option tells the system you want to retrieve group form (GRP) resources from a library named <i>LBYI</i> .
LogoFile	This option tells the system you want to retrieve graphics (LOG) files from a library named <i>LBYI</i> .

LibraryManager control group

LbyLogFile	This option tells the system the name of the library log file is <i>LBYLOG</i> . The library log contains information about resources added to, deleted from, or updated in the library. The LbyLogFile does not have to use the same type of database handler as the library index and data portions.

Library:LBYI control group

	DBTable	This option tells the system the data component of the library named <i>LBYI</i> is called <i>LBYD</i> . In this example, the names LBYI and LBYD have been chosen to emphasize that one table, LBYI, represents the library index and one table, LBYD represents the library data.
		You can call these tables any name you like but the name cannot exceed eight characters. See the DB2_FileConvert control group if you need to map these eight-character names to longer table names.

DBTable:LBYI control group

DBHandler	This option tells the system to access the table known as <i>LBYI</i> using the database handler named <i>DB2</i> . Based on this option, the system expects to find a control group named <i>DBHandler:DB2</i> .
-----------	---

DBTable:LBYD control group

DBHandler	This option tells the system to access the table known as <i>LBYD</i> using the database handler named <i>DB2</i> . Based on this option, the system expects to find a control group named <i>DBHandler:DB2</i> .
UniqueTag	This option tells the system the columns ARCKEY and SEQ_NUM can be combined to represent a unique tag for the table. This unique tag is only used for internal purposes. If you do not specify a unique tag for this table, and a column with the name UNIQUE_ID does not exist within the table, you receive warning messages indicating no unique tag is defined. Include this value to avoid those warning messages.

DBTable:LBYLOG control group

DBHand	ler	This option tells the system to access the table known as <i>LBYLOG</i> using the database handler named <i>DB2</i> . Based on this option, the system expects to find a control group named <i>DBHandler:DB2</i> .
--------	-----	---

DBTable:CATALOG control group

	DBHandler	This option tells the system to access the table known as <i>CATALOG</i> using the database handler named <i>DB2</i> . The CATALOG table temporarily stores the CATALOGID values used to construct an ARCKEY.
	UniqueTag	This option tells the system the column CATALOGID represents a unique tag for this table. This unique tag is only used for internal purposes. If you do not specify a unique tag for this table, and a column with the name UNIQUE_ID does not exist within the table, you receive warning messages indicating there is no unique tag defined. Include this value to avoid those warning messages.

DBHandler:DB2 control group

Class	This option tells the system this database handler represents a handler for IBM's DB2
	database management system. The Class option is unnecessary if the name of the handler (DB2 in this case) matches one of the Documaker pre-defined values, such as DB2, ODBC,
	ORA, or DMS.

Option	Description
CreateIndex	This option tells the system not to create database indexes. This option should <i>always</i> be set to No.
CreateTable	This option tells the system to create any missing required tables at run time.
Database	This option tells the system the name of the database for this database handler is <i>LBYDBASE</i> .
Debug	This turns off tracing for the Documaker DB2 database handler. Normally you would omit the Debug option or set it to No. In troubleshooting situations, set this option to Yes and examine the trace messages written to the trace file.
Passwd	This option tells the system the password to use when connecting to the database management system.
UserID	This option tells the system the user ID to use when connecting to the database management system.

DB2_FileConvert control group

LBYI	This option tells the system the table referenced in INI options as LBYI is really named $DAP110_LBYI$ on the database management system.
	This control group lets you map table names of eight characters or less to table names longer than eight characters.
	The table name you specify must adhere to the table naming conventions for the database management system.
LBYD	This option tells the system the table referenced in INI options as <i>LBYD</i> is really named <i>DAP110_LBYI</i> on the database management system.
LBYLog	This option tells the system the table referenced in INI options as <i>LBYI</i> is really named <i>DAP110_LBYI</i> on the database management system.

USING THE DB2 ODBC DRIVER

You can use the DB2 ODBC driver on the Windows operating system.

Creating the Database and Tables

You can let the LBRYMGR utility create the library index, data, and catalog tables or you can create them beforehand. To have the LBRYMGR utility create the library and catalog tables, specify this INI option:

```
< DBHandler:DB2 >
CreateTable = Yes
```

Note For more information about the LBRYMGR utility, see the Utilities Reference.

To create the DB2 library and catalog tables manually, execute an SQL script like the one provided with the RPEX1 sample resources in this directory:

..rpex1\deflib\db2\lbysqlr.cmd

This file is also listed below:

CONNECT TO LBYLIB;

```
_____
-- DDL Statements for table "DAP110 CAT R1"
_____
CREATE TABLE "DAP110 CAT R1"
                         (
               "CATALOGID" CHAR(10) ,
               "CARFILE" CHAR(8) ,
              "MEDIAID" CHAR(11) ,
              "STATUS" CHAR(1) )
              IN "USERSPACE1" ;
_____
-- DDL Statements for table "DAP110 LBYI R1"
------
CREATE TABLE "DAP110 LBYI R1"
                          (
              "FILETYPE" CHAR(3) ,
              "FILESTYP" CHAR(3)
              "FILENAME" CHAR(100)
              "RESOURCE" CHAR(25) ,
              "DESCRIPT" CHAR(100) ,
               "EFFECTIV" CHAR(10) ,
               "MODIFYTM" CHAR(10) ,
               "FILEINDX" CHAR(8) ,
               "RECSTAT" CHAR(3) ,
               "VERSION" CHAR(5),
               "REVISION" CHAR(5) ,
               "USERID" CHAR(64) ,
               "USRLEVL" CHAR(2) ,
               "PASSWD" CHAR(64)
               "UNIQUE ID" CHAR(26) ,
               "ARCKEY" CHAR(18) ,
               "MODE" CHAR(25)
               "STATUS" CHAR(25) ,
              "CLASS" CHAR(25)
              "PROJECT" CHAR(25) )
              IN "USERSPACE1" ;
```

```
-- DDL Statements for table "DAP110_LBYD_R1"

CREATE TABLE "DAP110_LBYD_R1" (

    "ARCKEY" CHAR(18) ,

    "SEQ_NUM" CHAR(5) ,

    "CONT_FLAG" CHAR(1) ,

    "TOTAL_SIZE" INTEGER ,

    "CARDATA" LONG VARCHAR FOR BIT DATA )

    IN "USERSPACE1" ;
```

COMMIT WORK;

CONNECT RESET;

TERMINATE;

If you manually create the DB2 tables by running using this script, set the CreateTable option to No when you later run Documaker. Here is an example:

< DBHandler:ODBC > CreateTable = No

Sample INI Options

Use INI options like the following to create a library in DB2, using the DB2 ODBC driver, and to load resources from that library:

```
< MasterResource >
```

```
BDFFile = LBYI
   DALFile = LBYI
   DDTFile = LBYI
   GRPFile = LBYI
   FORFile = LBYI
FormFile = LBYI
LogoFile = LBYI
<LibraryManager>
   LBYLogFile= LBYLOG
< Library:LBYI >
   DBTable = LBYD
< DBTable:LBYI >
   DBHandler = ODBC
< DBTable:LBYD >
   DBHandler = ODBC
   UniqueTag = ARCKEY+SEQ_NUM
< DBTable:LBYLOG >
   DBHandler = ODBC
< DBTable:CATALOG >
   DBHandler = ODBC
   UniqueTag = CATALOGID
< DBHandler:ODBC >
   Class
            = ODBC
   CreateIndex= No
   CreateTable= Yes
           = No
= password
   Debug
   Passwd
   Qualifier = LBYDBASE
   Server = LBYDB2
   UserID
           = userID
< ODBC FileConvert >
   LBYI = DAP110 LBYI R1
           = DAP110_LBYD_R1
   LBYD
   LBYLog
          = DAP110_LBYLOG_R1
```

Option Description

MasterResource control group

BDFFile	This option tells the system you want to retrieve business definition (BDF) resources from a library named <i>LBYI</i> .
DALFile	This option tells the system you want to retrieve DAL scripts and DAL script libraries from a library named <i>LBYI</i> .
DDTFile	This option tells the system you want to retrieve DDT files from a library named LBYI.
FORFile	This option tells the system you want to retrieve form (FOR) resources from a library named <i>LBYI</i> .
FormFile	This option tells the system you want to retrieve FAP files from a library named LBYI.
GRPFile	This option tells the system you want to retrieve group form (GRP) resources from a library named <i>LBYI</i> .
LogoFile	This option tells the system you want to retrieve graphics (LOG) files from a library named <i>LBYI</i> .

LibraryManager control group

LbyLogFile	This option tells the system the name of the library log file is <i>LBYLOG</i> . The library log contains information about resources added to, deleted from, or updated in the library. The LbyLogFile does not have to use the same type of database handler as the library index and data portions.
------------	--

Library:LBYI control group

DBTable	This option tells the system the data component of the library named <i>LBYI</i> is called <i>LBYD</i> . In this example, the names LBYI and LBYD have been chosen to emphasize that one table, LBYI, represents the library index and one table, LBYD represents the library data.	
		You can call these tables any name you like but the name must be eight characters or less. See the ODBC_FileConvert control group to map these eight-character names to longer table names.

DBTable:LBYI control group

DBHandler	This option tells the system to access the table known as <i>LBYI</i> using the database handler named <i>ODBC</i> . Based on this option, the system expects to find a control group named <i>DBHandler:ODBC</i> .
	Microsoft's SQL Server is an ODBC-compliant database.

DBTable:LBYD control group

DBHandler	This option tells the system to access the table known as <i>LBYD</i> using the database handler named <i>ODBC</i> . Based on this option, the system expects to find a control group named <i>DBHandler:ODBC</i> .
UniqueTag	This option tells the system the columns ARCKEY and SEQ_NUM can be combined to represent a unique tag for the table. This unique tag is only used for internal purposes. If you do not specify a unique tag for this table, and a column with the name UNIQUE_ID does not exist, you receive warning messages indicating no unique tag is defined. Include this option to avoid those warning messages.

DBTable:LBYLOG control group

DBHandler	This option tells the system to access the table known as <i>LBYLOG</i> using the database handler named <i>ODBC</i> . Based on this option, the system expects to find a control group named <i>DBHandler:ODBC</i>
-----------	---

DBTable:CATALOG control group

DBHandler	This option tells the system to access the table known as <i>CATALOG</i> using the database handler named <i>ODBC</i> . The CATALOG table temporarily stores the CATALOGID values used to construct an ARCKEY.
UniqueTag	This option tells the system the column CATALOGID represents a unique tag for this table. This unique tag is only used for internal purposes. If you do not specify a unique tag for this table, and a column with the name UNIQUE_ID does not exist within the table, you receive warning messages indicating no unique tag is defined. Include this option to avoid those warning messages.

DBHandler:ODBC control group

Class	This option tells the system this database handler represents a handler for Microsoft's Open
	Data Base Connectivity (ODBC) standard. The Class parameter is unnecessary if the name of the handler, <i>ODBC</i> in this case, matches one of the Documaker pre-defined
	values, such as DB2, ODBC, ORA, or DMS.

Option	Description
CreateIndex	This option tells the system not to create database indexes. This option should <i>always</i> be set to No.
CreateTable	This option tells the system that if a table needed by the system does not exist, to create it.
Debug	This option turns off tracing for the Documaker ODBC database handler. Normally you should omit the Debug option or set it to No. In troubleshooting situations, set this option to Yes and examine the trace messages that are written to the trace file.
Passwd	This option tells the system the password to use when connecting to the database management system.
Qualifier	This option tells the system that the name of the database for this database handler is <i>LBYDBASE</i> . If you omit this option, the system uses the database set up as the default database for the LBYDB2 ODBC Data Source.
Server	This option tells the system the name of the ODBC Data Source for this database handler is <i>LBYDB2</i> . You will need to have defined an ODBC Data Source by this name.
UserID	This option tells the system the user ID to use when connecting to the database management system.

ODBC_FileConvert

LBYI	This option tells the system the table referenced in INI options as LBYI is really named <i>DAP110_LBYI</i> on the database management system. This control group lets you map table names of eight characters or less to table names longer than eight characters. The table name you specify must adhere to the table naming conventions for the database management system.
LBYD	This option tells the system the table referenced in INI options as <i>LBYD</i> is really named <i>DAP110_LBYI</i> on the database management system.
LBYLog	This option tells the system the table referenced in INI options as <i>LBYI</i> is really named <i>DAP110_LBYI</i> on the database management system.

USING THE SQL SERVER ODBC DRIVER

You can use the SQL Server ODBC driver on Windows.

Creating the Database and Tables

On Windows, you can use Studio to create the library index and data files. You can also use the LBRYMGR utility do it.

Note For more information about the LBRYMGR utility, see the Utilities Reference.

Sample INI Options

Use INI options like the following to create a library in SQL Server, using the SQL Server ODBC driver, and to load resources from that library:

```
< MasterResource >
  BDFFile = LBYI
  DALFile = LBYI
  DDTFile = LBYI
  FORFile = LBYI
  FormFile = LBYI
  GRPFile = LBYI
  LogoFile = LBYI
< LibraryManager >
  LBYLogFile= LBYLOG
< Library:LBYI >
  DBTable = LBYD
< DBTable:LBYI >
  DBHandler = ODBC
< DBTable:LBYD >
  DBHandler = ODBC
  UniqueTag = ARCKEY+SEQ NUM
< DBTable:LBYLOG >
   DBHandler = ODBC
< DBTable:CATALOG >
   DBHandler = ODBC
   UniqueTag = CATALOGID
< DBHandler:ODBC >
  CreateIndex = No
  CreateTable= Yes
           = No
  Debug
   Passwd
           = password
   Qualifier = LBYDBASE
          = LBYSQL
= userID
   Server
  UserID
< ODBC FileConvert >
  LBYI = DAP110 LBYI
   LBYD
           = DAP110 LBYD
   LBYLog
          = DAP110 LBYLOG
```

Option Description

MasterResource control group

BDFFile	This option tells the system you want to retrieve Business Definition (BDF) resources from a library named <i>LBYI</i> .
DALFile	This option tells the system you want to retrieve DAL scripts and DAL script libraries from a library named <i>LBYI</i> .

Option	Description
DDTFile	This option tells the system you want to retrieve DDT files from a library named LBYI.
FORFile	This option tells the system you want to retrieve form (FOR) resources from a library named <i>LBYI</i> .
FormFile	This option tells the system you want to retrieve FAP files from a library named LBYI.
GRPFile	This option tells the system you want to retrieve group form (GRP) resources from a library named <i>LBYI</i> .
LogoFile	This option tells the system you want to retrieve graphics (LOG) files from a library named <i>LBYI</i> .

LibraryManager control group

LbyLogFile	This option tells the system the name of the library log file is <i>LBYLOG</i> . The library log contains information about resources that are added to, deleted from, or updated in the library.
	The LbyLogFile does not have to use the same type of database handler as the library index and data portions.

Library:LBYI control group

DBT	DBTable	This option tells the system the data component of the library named <i>LBYI</i> is called <i>LBYD</i> . In this example, the names LBYI and LBYD emphasize that one table, LBYI, represents the library index and one table, LBYD, represents the library data.
		You can call these tables any name you like but the name must be eight characters or less. See the ODBC_FileConvert control group to map these eight-character names to longer table names.

DBTable:LBYI control group

DBHandler	This option tells the system to access the table known as <i>LBYI</i> using the database handler named <i>ODBC</i> . Because of this INI value, the system later expects to find a control group named <i>DBHandler:ODBC</i> .
	Microsoft's SQL Server is an ODBC-compliant database.

DBTable:LBYD control group

DBHandler	This option tells the system to access the table known as <i>LBYD</i> using the database handler named <i>ODBC</i> . Because of this INI value, the system later expects to find a control group named <i>DBHandler:ODBC</i> .
UniqueTag	This option tells the system the columns ARCKEY and SEQ_NUM can be combined to represent a unique tag for the table. This unique tag is only used for internal purposes. If you do not specify a unique tag for this table, and a column with the name UNIQUE_ID does not exist within the table, you receive warning messages indicating no unique tag is defined. Include this option to avoid those warning messages.

DBTable:LBYLOG control group

DBHandler	This option tells the system to access the table known as <i>LBYLOG</i> using the database handler named <i>ODBC</i> . Because of this INI value, the system later expects to find an INI control group named <i>DBHandler:ODBC</i> .
-----------	---

DBTable:CATALOG control group

Option	Description
DBHandler	This option tells the system to access the table known as <i>CATALOG</i> using the database handler named <i>ODBC</i> . The CATALOG table is used to temporarily store CATALOGID values which are used to construct an ARCKEY.
UniqueTag	This option tells the system the column CATALOGID represents a unique tag for this table. This unique tag is only used for internal purposes.
	If you do not specify a unique tag for this table, and a column with the name UNIQUE_ID does not exist within the table, you receive warning messages indicating no unique tag is defined. Include this option to avoid those warning messages.

DBHandler:ODBC control group

Class	This option tells the system this database handler represents a handler for Microsoft's Open Data Base Connectivity (ODBC) standard. This option is unnecessary if the name of the handler (<i>ODBC</i> in this case) matches one of the Documaker pre-defined values such as, DB2, ODBC, ORA, or DMS.
Debug	This option turns off tracing for the Documaker ODBC database handler, which is the default. Normally you should omit the Debug option or set it to No. In troubleshooting situations, set this option to Yes and examine the messages written to the trace file.
CreateIndex	This option tells the system not to attempt to create database indexes (always set to No).
CreateTable	This option tells the system that if a table needed does not exist at run time, it should create it.
Passwd	This option tells the system the password to use when connecting to the database management system.
Qualifier	This option tells the system the name of the database for this database handler is <i>LBYDBASE</i> . If you omit this option, the database set up as the default database for the LBYSQL ODBC Data Source is used.
Server	This option tells the system the name of the ODBC Data Source for this database handler is <i>LBYSQL</i> . You must define an ODBC Data Source by this name.
UserID	This option tells the system the user ID to use when connecting to the database management system.

ODBC_FileConvert control group

	LBYI	This option tells the system the table referenced in INI options as <i>LBYI</i> is really named <i>DAP110_LBYI</i> on the database management system.
		This control group lets you map table names of eight characters or less to table names longer than eight characters.
		The table name you specify must adhere to the table naming conventions for the database management system.
	LBYD	This option tells the system the table referenced in INI options as <i>LBYD</i> is really named <i>DAP110_LBYI</i> on the database management system.
	LBYLog	This option tells the system the table referenced in INI options as <i>LBYI</i> is really named <i>DAP110_LBYI</i> on the database management system.

USING THE ORACLE ODBC DRIVER

You can use the Oracle ODBC driver on Windows.

- Note You can have up to 32 SQL static variables.
 - If using Oracle database and ODBC connection, the Oracle Instant Client version 11.2.0.3 must be used as the Client for the Data Source Name. Refer to the Instant Client ODBC readme for installation details.

Data Format Definition (DFD) Requirements

Sample CARFILE.DFD file

To use a library using the Oracle ODBC driver, you must use an Oracle supplied CARFILE.DFD file that differs from the standard (internal) DFD definition. The supplied CARFILE.DFD file is included in the sample RPEX1 resources in the directory:

..\DEFLIB\ODBC_ORA\CARFILE.DFD

The contents of the CARFILE.DFD file are listed below:

```
; CARFILE.DFD - use this DFD when referencing a library or archive
with the Oracle ODBC driver.
< Fields >
      FieldName = ARCKEY
      FieldName = SEQ NUM
      FieldName = CONT FLAG
      FieldName = TOTAL SIZE
      FieldName = CARDATA
< Field:ARCKEY >
       INT_Type = CHAR_ARRAY
       INT\_Length = 18
      EXT_Type = CHAR_ARRAY
EXT_Length = 18
      Key = N
      Required = N
< Field:SEO NUM >
       INT TYPE = CHAR ARRAY
       INT LENGTH = 5
      EXT_TYPE = CHAR ARRAY
      EXT\_LENGTH = 5
      KEY = N
      REQUIRED = N
< Field:CONT FLAG >
      INT TYPE = CHAR_ARRAY
      INT LENGTH = 1
      EXT TYPE = CHAR ARRAY
      EXT LENGTH = 1
      KEY = N
      REQUIRED = N
< Field:TOTAL SIZE >
       INT TYPE = LONG
       INT LENGTH = 4
      EXT TYPE = DOUBLE
      EXT LENGTH = 4
      KEY = N
      REQUIRED = N
< Field:CARDATA >
```

```
INT TYPE = BLOB
      INT\_LENGTH = 252
      EXT_TYPE = BLOB
      EXT LENGTH = 252
      KEY = N
      REQUIRED = N
< Keys >
      KEYNAME = ARCKEY
      KEYNAME = SEQ NUM
      KEYNAME = CAR_KEY
< Key:ARCKEY >
      EXPRESSION = ARCKEY+SEQ NUM
      FIELDLIST = ARCKEY, SEQ NUM
< Key:SEQ NUM >
      EXPRESSION = SEQ NUM
      FIELDLIST = SEQ NUM
< Key:CAR KEY >
      EXPRESSION = ARCKEY
      FIELDLIST = ARCKEY
```

To use the supplied CARFILE.DFD file, follow these steps:

- 1. Copy the CARFILE.DFD file into the directory where you store other DFD files (generally the \DEFLIB directory).
- 2. Tell the system to use the CARFILE.DFD file by adding this option to the INI file:

```
< ArcRet >
    CARFileDFD = ..\DEFLIB\CARFILE.DFD
```

Creating the Database and Tables

On Windows, you can use Studio to create the library index and data files. You can also use the LBRYMGR utility do it.

Note For more information about the LBRYMGR utility, see the Utilities Reference.

Sample INI Options

Use INI options like the following to create a library using the Oracle ODBC driver and to load resources from that library:

```
< MasterResource >
   BDFFile = LBYI
   DALFile = LBYI
   DDTFile = LBYI
   FORFile = LBYI
   FormFile = LBYI
   GRPFile = LBYI
LogoFile = LBYI
< LibraryManager >
   LBYLogFile= LBYLOG
< Library:LBYI >
  DBTable = LBYD
< DBTable:LBYI >
   DBHandler = ODBC
< DBTable:LBYD >
   DBHandler = ODBC
   UniqueTag = ARCKEY+SEQ NUM
< DBTable:LBYLOG >
   DBHandler = ODBC
```

```
< DBTable:CATALOG >
    DBHandler = ODBC
    UniqueTag = CATALOGID
< DBHandler:ODBC >
    CreateIndex = No
    CreateTable = Yes
    Debug = No
    Passwd = password
    Qualifier = LBYDBASE
    Server = LBYORA
    UserID = userID
< ODBC_FileConvert >
    LBYI = DAP110_LBYI
    LBYD = DAP110_LBYLOG
```

MasterResource control group

BDFFile	This option tells the system you want to retrieve business definition (BDF) resources from a library named <i>LBYI</i> .
DALFile	This option tells the system you want to retrieve DAL scripts and DAL script libraries from a library named <i>LBYI</i> .
DDTFile	This option tells the system you want to retrieve DDT files from a library named LBYI.
FORFile	This option tells the system you want to retrieve form (FOR) resources from a library named <i>LBYI</i> .
FormFile	This option tells the system you want to retrieve FAP files from a library named LBYI.
GRPFile	This option tells the system you want to retrieve group form (GRP) resources from a library named <i>LBYI</i> .
LogoFile	This option tells the system you want to retrieve graphics (LOG) files from a library named <i>LBYI</i> .

LibraryManager control group

LbyLogFile	This option tells the system the name of the library log file is <i>LBYLOG</i> . The library log contains information about resources added to, deleted from, or updated in the library.
	The LbyLogFile does not have to use the same type of database handler as the library index and data portions.

Library:LBYI control group

DBTable	This option tells the system the data component of the library named <i>LBYI</i> is called <i>LBYD</i> . In this example, the names LBYI and LBYD emphasize that one table, LBYI, represents the library index and one table, LBYD represents the library data.
	You can call these tables anything you like but the name must be eight characters or less. Use the ODBC_FileConvert control group if you need to map these eight character names to longer table names.

DBTable:LBYI control group

DBHandler	This option tells the system to access the table known as <i>LBYI</i> using the database handler named <i>ODBC</i> . Because of this INI option, the system later expects to find a control group named <i>DBHandler:ODBC</i> .
	Microsoft's SQL Server is an ODBC-compliant database.

DBTable:LBYD control group

DBHandler	This option tells the system to access the table known as <i>LBYD</i> using the database handler named <i>ODBC</i> . Because of this INI option, the system later expects to find a control group named <i>DBHandler:ODBC</i> .
UniqueTag	This option tells the system the columns ARCKEY and SEQ_NUM can be combined to represent a unique tag for the table. This unique tag is only used for internal purposes. If you do not specify a unique tag for this table, and a column with the name UNIQUE_ID does not exist, you receive warning messages indicating no unique tag ID defined. Include this option to avoid those warning messages.

DBTable:LBYLOG control group

DBHandler	This option tells the system to access the table known as <i>LBYLOG</i> using the database handler named <i>ODBC</i> . Based on this INI option, the system expects to find a control group named <i>DBHandler:ODBC</i> .
	handler named ODBC. Based on this INI option, the system expects to find a control group

DBTable:CATALOG control group

DBHandler	This option tells the system to access the table known as <i>CATALOG</i> using the database handler named <i>ODBC</i> . The CATALOG table temporarily stores the CATALOGID values used to construct an ARCKEY.
UniqueTag	This option tells the system the column CATALOGID represents a unique tag for this table. This unique tag is only used for internal purposes. If you do not specify a unique tag for this table, and a column with the name UNIQUE_ID does not exist, you receive warning messages indicating no unique tag is defined. Include this option to avoid those warning messages.

DBHandler:ODBC control group

Class	This option tells the system this database handler represents a handler for Microsoft's Open Data Base Connectivity (ODBC) standard. This option is unnecessary if the name of the handler (ODBC in this case) matches one of the Documaker pre-defined values, such as DB2, ODBC, ORA, or DMS.
CreateIndex	This option tells the system not to attempt to create database indexes (always set to No).
CreateTable	This option tells the system that, if a table needed does not exist at run time, it should create it.
Debug	This option turns off tracing for the Documaker ODBC database handler, which is the default. Normally you should omit the Debug option or set it to No. In troubleshooting situations, set this option to Yes and examine the trace messages written to the trace file.
Passwd	This option tells the system the password to use when connecting to the database management system.
Qualifier	This option tells the system the name of the database for this database handler is <i>LBYDBASE</i> . If you omit this option, the system uses the database set up as the default database for the LBYORA ODBC Data Source.
Server	This option tells the system the name of the ODBC Data Source for this database handler is <i>LBYORA</i> . You must define an ODBC Data Source by this name.
UserID	This option tells the system the user ID to use when connecting to the database management system.

ODBC_FileConvert control group

LBYI	This option tells the system the table referenced in INI options as <i>LBYI</i> is really named <i>DAP110_LBYI</i> on the database management system.
	This control group lets you map table names of eight characters or less to table names longer than eight characters.
	The table name you specify must adhere to the table naming conventions for the database management system.
LBYD	This option tells the system the table referenced in INI options as <i>LBYD</i> is really named <i>DAP110_LBYI</i> on the database management system.
LBYLog	This option tells the system the table referenced in INI options as <i>LBYI</i> is really named <i>DAP110_LBYI</i> on the database management system.

USING ORACLE JDBC DRIVER

You can use the Oracle JDBC driver on Windows.

Data Format Definition (DFD) Requirements

Sample CARFILE.DFD file

To use a library using the Oracle JDBC driver, you must use an Oracle supplied CARFILE.DFD file that differs from the standard (internal) DFD definition. The supplied CARFILE.DFD file is included in the sample RPEX1 resources in the directory:

..\DEFLIB\JDBC_ORA\CARFILE.DFD

The contents of the CARFILE.DFD file are listed below:

```
; CARFILE.DFD - use this DFD when referencing a library or archive
with the Oracle JDBC driver.
< Fields >
       FieldName = ARCKEY
       FieldName = SEQ NUM
       FieldName = CONT FLAG
       FieldName = TOTAL SIZE
      FieldName = CARDATA
< Field:ARCKEY >
       INT Type = CHAR_ARRAY
       INT\_Length = 18
       EXT_Type = CHAR_ARRAY
       EXT Length = 18
       Key = Y
      Required = Y
< Field:SEQ NUM >
       INT_TYPE = CHAR_ARRAY
      INT_LENGTH = 5
EXT_TYPE = CHAR_ARRAY
EXT_LENGTH = 5
      KEY = Y
      REQUIRED = Y
< Field:CONT FLAG >
      INT TYPE = CHAR ARRAY
       INT LENGTH = 1
       EXT_TYPE = CHAR_ARRAY
       EXT\_LENGTH = 1
       KEY = N
      REQUIRED = N
< Field:TOTAL SIZE >
      INT TYPE = LONG
       INT LENGTH = 4
       EXT TYPE = DOUBLE
       EXT LENGTH = 4
      KEY = N
      REOUIRED = N
< Field:CARDATA >
       INT TYPE = BLOB
       INT LENGTH = 252
       EXT TYPE = BLOB
      EXT LENGTH = 252
      KEY = N
      REQUIRED = N
< Keys >
      KEYNAME = ARCKEY
```

```
KEYNAME = SEQ NUM
      KEYNAME = CAR KEY
< Key:ARCKEY >
      EXPRESSION = ARCKEY+SEQ NUM
      FIELDLIST = ARCKEY, SEQ NUM
      FILTER
                 =
      UNIOUE
                 = 1
< Key:SEQ NUM >
      EXPRESSION = SEQ NUM
      FIELDLIST = SEQ NUM
      FILTER
                 =
      UNIQUE
                 = 0
< Key:CAR KEY >
      EXPRESSION = ARCKEY
      FIELDLIST = ARCKEY
      FILTER
                 =
      UNIOUE
                 = 0
```

To use the supplied CARFILE.DFD file, follow these steps:

- 1. Copy the CARFILE.DFD file into the directory where you store other DFD files (generally the \DEFLIB directory).
- 2. Tell the system to use the CARFILE.DFD file by adding this option to the INI file:

```
< ArcRet >
CARFileDFD = ..\DEFLIB\CARFILE.DFD
```

Creating the Database and Tables

On Windows, you can use Studio to create the library index and data files. You can also use the LBRYMGR utility do it.

Note For more information about the LBRYMGR utility, see the Utilities Reference.

Sample INI Options

Use INI options like the following to create a library using the Oracle ODBC driver and to load resources from that library:

```
< MasterResource >
   BDFFile = LBYI
  DALFile = LBYI
  DDTFile = LBYI
  FORFile = LBYI
  FormFile = LBYI
  GRPFile = LBYI
  LogoFile = LBYI
< LibraryManager >
  LBYLogFile= LBYLOG
< Library:LBYI >
  DBTable = LBYD
< DBTable:LBYI >
  DBHandler = JDBC
< DBTable:LBYD >
  DBHandler = JDBC
  UniqueTag = ARCKEY+SEQ NUM
< DBTable:LBYLOG >
   DBHandler = JDBC
< DBTable:CATALOG >
   DBHandler = JDBC
```

```
UniqueTag = CATALOGID
< DBHandler:JDBC >
   CreateIndex = No
   CreateTable = Yes
   Debug = No
   Passwd = password
   Qualifier = LBYDBASE
   Server = oracle.jdbc.OracleDriver;jdbc:oracle:thin@dbHost:1521:XE
   UserID = userID
< JDBC_FileConvert >
   LBYI = DAP110_LBYI
   LBYD = DAP110_LBYD
   LBYLog = DAP110_LBYLOG
```

MasterResource control group

BDFFile	This option tells the system you want to retrieve business definition (BDF) resources from a library named <i>LBYI</i> .
DALFile	This option tells the system you want to retrieve DAL scripts and DAL script libraries from a library named <i>LBYI</i> .
DDTFile	This option tells the system you want to retrieve DDT files from a library named LBYI.
FORFile	This option tells the system you want to retrieve form (FOR) resources from a library named <i>LBYI</i> .
FormFile	This option tells the system you want to retrieve FAP files from a library named LBYI.
GRPFile	This option tells the system you want to retrieve group form (GRP) resources from a library named <i>LBYI</i> .
LogoFile	This option tells the system you want to retrieve graphics (LOG) files from a library named <i>LBYI</i> .

LibraryManager control group

LbyLogFile	This option tells the system the name of the library log file is <i>LBYLOG</i> . The library log contains information about resources added to, deleted from, or updated in the library.
	The LbyLogFile does not have to use the same type of database handler as the library index and data portions.

Library:LBYI control group

DBTable	This option tells the system the data component of the library named <i>LBYI</i> is called <i>LBYD</i> . In this example, the names LBYI and LBYD emphasize that one table, LBYI, represents the library index and one table, LBYD represents the library data.
	You can call these tables anything you like but the name must be eight characters or less. Use the JDBC_FileConvert control group if you need to map these eight character names to longer table names.

DBTable:LBYI control group

DBHandler	This option tells the system to access the table known as <i>LBYI</i> using the database handler named <i>JDBC</i> . Because of this INI option, the system later expects to find a control group named <i>DBHandler:JDBC</i> .
	Microsoft's SQL Server is an JDBC-compliant database.

DBTable:LBYD control group

	Option	Description
	DBHandler	This option tells the system to access the table known as <i>LBYD</i> using the database handler named <i>JDBC</i> . Because of this INI option, the system later expects to find a control group named <i>DBHandler:JDBC</i> .
	UniqueTag	This option tells the system the columns ARCKEY and SEQ_NUM can be combined to represent a unique tag for the table. This unique tag is only used for internal purposes. If you do not specify a unique tag for this table, and a column with the name UNIQUE_ID does not exist, you receive warning messages indicating no unique tag ID defined. Include this option to avoid those warning messages.
	DBTable:LBYLOG control group	
	DBHandler	This option tells the system to access the table known as <i>LBYLOG</i> using the database handler named <i>JDBC</i> . Based on this INI option, the system expects to find a control group

DBTable:CATALOG control group

named DBHandler:JDBC.

DBHandler	This option tells the system to access the table known as <i>CATALOG</i> using the database handler named <i>JDBC</i> . The CATALOG table temporarily stores the CATALOGID values used to construct an ARCKEY.
UniqueTag	This option tells the system the column CATALOGID represents a unique tag for this table. This unique tag is only used for internal purposes. If you do not specify a unique tag for this table, and a column with the name UNIQUE_ID does not exist, you receive warning messages indicating no unique tag is defined. Include this option to avoid those warning messages.

DBHandler:JDBC control group

Class	This option tells the system this database handler represents a handler for the Java Data Base Connectivity (JDBC) standard. This option is unnecessary if the name of the handler (JDBC in this case) matches one of the Documaker pre-defined values, such as DB2, JDBC, ORA, or DMS.
CreateIndex	This option tells the system not to attempt to create database indexes (always set to No).
CreateTable	This option tells the system that, if a table needed does not exist at run time, it should create it.
Debug	This option turns off tracing for the Documaker JDBC database handler, which is the default. Normally you should omit the Debug option or set it to No. In troubleshooting situations, set this option to Yes and examine the trace messages written to the trace file.
Passwd	This option tells the system the password to use when connecting to the database management system.
Qualifier	This option tells the system the name of the database for this database handler is <i>LBYDBASE</i> . If you omit this option, the system uses the database set up as the default database for the LBYORA JDBC Data Source.
Server	This option provides the JDBC URL needed for your JDBC driver to connect to your database. The format of the URL varies by database vendor and driver.
UserID	This option tells the system the user ID to use when connecting to the database management system.

JDBC_FileConvert control group

Optic	on	Description
LBYI		This option tells the system the table referenced in INI options as <i>LBYI</i> is really named <i>DAP110_LBYI</i> on the database management system.
		This control group lets you map table names of eight characters or less to table names longer than eight characters.
		The table name you specify must adhere to the table naming conventions for the database management system.
LBYD		This option tells the system the table referenced in INI options as <i>LBYD</i> is really named <i>DAP110_LBYI</i> on the database management system.
LBYL	og	This option tells the system the table referenced in INI options as <i>LBYI</i> is really named <i>DAP110_LBYI</i> on the database management system.

WORKING WITH LIBRARIES

Studio lets you open a library, add resources to a library, delete, or extract resources from a library and edit some of the properties of a resource. You can also run a response file, print a list of resources, and view a history of changes made to a resource. For initialization settings, Studio uses the INI files referenced in the Studio workspace file. The Studio workspace file usually references the FSIUSER.INI and FSISYS.INI INI files.

- Opening a Library on page 605
- Adding Resources to a Library on page 607
- Importing Files on page 609
- Importing Libraries on page 610
- Checking Out Resources on page 613
- Checking In Resources on page 615
- Unlocking Resources on page 616
- Promoting Resources on page 618
- Filtering Resources on page 623
- Editing Resource Information on page 625
- Deleting Resources on page 626
- Collapsing Resources on page 627
- Extracting Resources on page 633
- Expiring Resources on page 635
- Comparing Resources on page 635
- Reviewing a History of Resource Changes on page 643
- Running Response Files on page 644

OPENING A LIBRARY

A workspace is associated with a specific library. When you click Library, the contents of the library appear, as shown below. This is known as the *library view*.

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Workspace 4 >	Filter/Search		д									70 of 70
	Filter											100110
- Application	N ! # C 0	 		Name	Туре	Ver	Rev	Effective Date	Locked	User	Secured	Desc_
🏫 🗳 Definition		~ · · · ·		XTRAININGCOMP/	BDF	00001	00002	1/1/1980		DOCUCORP		Test for GE
Triggers	➡ Filter Values		-	NAME	DAL	00001	00001	1/1/1980		JDOE		Initial checł
Triggers	Name			SETRCPTB	DAL	00001	00001	1/1/1980		JDOE		Initial Checl
-e Content	Туре	(any)		AUTO 25 TO 50	FAP	00001	00001	1/1/1980		JDOE		Initial checł
orms	Version	(all)		AUTO OVER 50	FAP	00001	00001	1/1/1980		JDOE		Initial check
Z dections	Revision	(last)		AUTO UNDER 25	FAP	00001	00001	1/1/1980		JDOE		Initial check
Paragraph Lists	Effective Date	(any)		BACK OF STUB	FAP	00001	00001	1/1/1980		JDOE		
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System	Locked	(any)	_									
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System Templates Styles Complete Styles Styles	User ID	(any)		FL AUTO PAY REM	FAP	00001	00001	1/1/1980		JDOE		Initial check
- MA FORCES	Mode	(any)		FL BILL 1	FAP	00001	00001	1/1/1980		JDOE		Initial check
Dictionaries	Status	(any)		FL BILL 2	FAP	00001	00001	1/1/1980		JDOE		Initial check
🕅 Data Extract	Class	(any)		FL BILL 3	FAP	00001	00001	1/1/1980		JDOE		Initial checł
🗮 Common Fields	Project	(anu)	-	FL BILL 4	FAP	00001	00001	1/1/1980		JDOE		Initial checł
Lookups			-	FL BILL ADDR A	FAP	00001	00001	1/1/1980		JDOF		Initial check
🙀 Entry	Filtering	0	۲	FL BILL ADDR B	FAP	00001	00001	1/1/1980		JDOE		Initial check
Tools			~	FL BILL ADDR C	FAP	00001	00001	1/1/1980		JDOE		Initial check
Conversion	To make it easi	er to work with	~									
🖑 Reports	Preview Filter/Search				FVD	00001	00001	1/1/1990		IDUE		Initial chect
Test Scenarios	Filer/Search	Floperdes										

Here you see all the resources in the library along with their type, version/revision, effective date, description, last modified date, mode, status, class, and project, along with information about the user who created the resource and whether or not it is locked.

From this window you can perform these tasks:

То	Do this
Check out a resource	Highlight the resource and press the right mouse button. Select Check Out from the right click menu. See <i>Checking Out Resources</i> on page 613 for more information.
Check in a resource	Highlight the resource, then right-click. Select Check In from the right click menu.
Open a resource without checking it out	Highlight the resource, then right-click. Select Read from the right click menu.
Display the library log	Highlight the resource, then right-click. Select Item History from the right click menu. See <i>Reviewing a History of Resource Changes</i> on page 643 for more information.
Secure the resource	Highlight the resource, then right-click. Select Secure Resource from the right click menu. This option requires System Administrator or Library Administrator rights
Make a copy of the resource and name the copy	Highlight the resource, then right-click. Select Copy and Rename from the right click menu.

То	Do this
Compare two resources	Highlight the resource, then right-click. Select Compare Selected Resources from the right click menu. Note : If you collapse a resource, it will not be available for comparison using Documaker Compare. For more information, see <i>"Working with Libraries"</i> <i>Comparing Resources, Library Collapse and Comparison</i> topic in this guide.
Compare revisions of a resource	 Highlight the resource, then right-click. Select Compare with Previous Revision from the right-click menu. Note: If you collapse a resource, it will not be available for comparison using Documaker Compare. For more information, see <i>"Working with Libraries"</i>, <i>Comparing Resources, Library Collapse and Comparison</i> topic in this guide.
Expire the resource	Highlight the resource, then right-click. Select Expire from the right-click menu. This option requires System Administrator or Library Administrator rights See <i>Expiring Resources</i> on page 635 for more information
View the Item Descendants of the resource	Highlight the resource, then right-click. Select Item Descendants from the right-click menu.
Print the Document View of the resource	Highlight the resource, then right-click. Select Sample Print from the right click menu. Note: This option is only available for the resource types Form (*.FOR), Graphic (*.LOG), Paragraph (*.PAR), Section (*.FAP) and Template (*.TPL).
Search the library grid for whole or partial matches.	Select Find from the right-click menu.
Generate the Library Grid Report	Select Library Grid Report from the right-click menu.
Export the contents of this window to a Comma Separated Value (*.CSV) file	Select Export This Window to File from the right-click menu.
To change the layout of the library grid	Select Grid Layout from the right-click menu
To invoke the Library Search Wizard	Select Search Wizard from the right-click menu

Note

The right-click menu can also be accessed by pressing Shift + F10.

ADDING RESOURCES TO A LIBRARY

When you add resources to a library, the system writes information about the resource into the index portion of the library and places the resource itself in the data portion of the library.

There are several ways to add a resource to your library. For instance, you can use the Library, Import Files options to add several files at once. See *Importing Files* on page 609 for more information. You can also add a single resource to your library.

To add a single resource to your library, you simply choose the File, Check In option. For example, suppose you have opened a bitmap file and you want to check it into the library as a LOG file.

Graphic Op	ptions		р	Fp	p
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- Gener	al		-	4	- · · · · · · · · · · · · · · · · · · ·
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workir <u>Graphi</u> comm	These are properties for the Graphic you are working on, Additionally, you can <u>adit the</u> <u>Graphic</u> using the menu and tool bars commands.				
Ger	ieral		~		

Follow these steps:

- 1. Choose File, Check In. The Save As window appears.
- 2. Make sure you have the name and location you want to assigned to the resource and click Save. The Check In window appears.

🚰 Check In	
Name:	PROCESS
Description:	process flow for design
Version:	00001 Increment version
Revision:	00001
Effective date:	1/ 1/1980 💌
Mode:	DEV
Status:	TEST
Class:	GA
Project:	P001
	Remove original file from disk
	OK Cancel

3. Make entries into the following fields as necessary:

Field	Description
Description	You can enter up to 100 characters to indicate what type of change was made to the resource. This field defaults to the contents of the Description field of the resource checked out, but you can enter a different description if you like.
	The Description field appears on the Check Out Section window that appears when you select a file to check out.
Increment	Check this box if you want Studio to increment the version number.
Version	If you only make a minor change you will probably want to just increment the revision number and not the version number. The revision number is automatically incremented by one if you do not check the Increment Version field.
	If you make a major change, or if you need to change the effective date of the resource that you are checking in, check the Increment Version field. This tells Studio to increment the version number by one and set the revision number to one.
	Once this field is checked, you can modify the Effective Date field. This makes sure all revisions of a resource have the same effective date. When a resource is checked out, changed, and checked back in, the older version/revision combinations of that resource remain in the library and can be loaded by the GenData and GenPrint programs or retrieved by Documaker Desktop or Docupresentment as needed.
	Keep in mind, however, you can only check out the latest revision of each version of a resource.
Effective Date	All revisions of a specific version of a resource must have the same effective date. This field is only available if you check the Increment Version field.
	The effective date defaults to MM/DD/YYYY, but may have a different format depending on your locale setting.
Mode	Use this field to assign a mode to the resource as it is checked in. For instance, you can use the Mode field to specify where in the development cycle the resource is.
	See Defining Mode, Status, Class, and Project Options on page 646 for information on how to set up modes.
Status	Use this field to assign a status to the resource as it is checked in. For instance, you could use the Status field to indicate whether a resource has passed or failed testing. See <i>Defining Mode, Status, Class, and Project Options</i> on page 646 for information on how to set up statuses.
Class	Use this field to assign a class to the resource as it is checked in. For instance, you could use the Class field to indicate the market in which a resource was applicable.
	See Defining Mode, Status, Class, and Project Options on page 646 for information on how to set up classes.
Project	Use this field to assign a project ID to the resource as it is checked in. For instance, you could use the Project field to indicate which project a resource was associated with. See <i>Defining Mode, Status, Class, and Project Options</i> on page 646 for information on how to set up projects.

4. Click Ok when finished or Cancel to exit without checking in the file.

IMPORTING FILES

You can use the Library, Import Files option to add a number of files into your library. When you choose this option, the Import Files window appears:

Թ Import Files				
Application	Туре	Name	Additional Resource Path	ОК
of Definition				Cancel
C Form Lists				Cancer
Triggers				Browse Files
Form Definition File				Duran Californi
Content				Browse Folder
Forms				Delete
ections 🔁				
🗄 Paragraph Lists				Edit Dependency
🐖 Paragraphs				
Graphics				
System				
Templates				
🖓 Styles	_			
Dictionaries	•		>	
🖓 Data Extract	Mode:	▼ Effectiv	e Date: 1/ 1/1980 💌	
Lookups	, The base			
🕵 Entry	Status:	Desc	cription: Initial check in.	i i i i i i i i i i i i i i i i i i i
	Class:	-		
	Project:	•		
				~

On the left pane, click the type of files you want to import. This activates the Browse Files and Browse Folders button on the right. You can use the Browse buttons to select the files you want to import. When you finish, click Ok and Studio adds them to the library. You can then modify the property settings as necessary.

IMPORTING LIBRARIES

You can use the Library, Import Library option to import resources from another library to the workspace library. You can only import resources from a library that is in xBase/CARFile format. You cannot import resources from a library that is in a DBMS format or one that is in Documanage.

When you choose this option, the Open window appears:

Open					? ×
Look in	DEFLIB		•	⇔ 🗈 💣 📰•	
History History Desktop Documents Computer	MASTER.	LEY			
	File name:	MASTER		-	Open
Network	Files of type:	Library Files (*.LBY)		•	Cancel

When you select a library and click Open, the following window appears:

Importing		
	_	 Cancel
		cancel

You can click Cancel to stop the import. Studio lists the resources as it imports them in the Status bar. If you right-click in the Status bar and select Print, you can print a list of the resources it imported.

MIGRATING A WORKSPACE LIBRARY

You can easily change the format of a library within a workspace. For instance, if you have administrator level security, you can use the migration wizard to quickly change a library from xBase to SQL or Documanage.

In addition to moving the contents of the library, the wizard changes the applicable workspace INI options so the new location becomes the primary library for the workspace. This is often useful if you find the default library is too limited for the solution you are creating.

Be sure to back up your library and workspace settings before migrating a library. Also, Note make user no users are actively using the system. Once the library changes, users will need to load the new workspace settings.

To migrate a library, choose the Migrate option from the Library menu. The Library Migration window appears.

	Library Migration			
	Choose how you would like to migrate your library.			
Choose from these options to tell Studio how you would like to migrate the library	Migration C Create a new library and copy the current library contents. C Merge the current library contents into an existing library. Image the associated workspace library without copying contents.			

You can choose from these options:

Migration option	Description
Create a new library and copy the current library contents	When creating a new library, you specify the name, location, and description. If you specify an existing library, Studio copies all of the resources into that library. If there are existing resources with the same name, Studio treats this occurrence the same as a promotion and will not migrate the resource if it has the same modification date.
Merge the current library contents into an existing library	Keep in mind the library must exist on disk or in the workspace's list of associated libraries. If there are existing resources with the same name, Studio treats this occurrence the same as a promotion and will not migrate the resource if it has the same modification date.
Change the associated workspace library without copying contents	When choosing a library, you can choose from the workspace's list of associated libraries or browse for another library on disk. Studio does not try to migrate resources but assumes the library is already populated for this workspace.

After you choose the appropriate migration option, click Next. The Migration Options window appears so you can select the library you want to migrate.

	Migration Options	×			
Click Browse to select the library you want to migrate	Click the Browse button to select the existing library for migration.				
	Library Name DEFLIb\master.lby Browse				
	DEFLib\master.lby				
		_			
	< <u>B</u> ack <u>N</u> ext > Cancel Help				

Click Next and the Finish Migration window appears.

	Finish Migra	ition	X
	Click Finish	to start the migration.	
	Status	Tasks	-
		Migrate Resources	-
	×	Modify INI Settings	
	×	Save New INI Settings	
	×	Load New INI Settings	
Click Finish to start the			
migration process. Studio			
shows its progress here.			
		< <u>B</u> ack Finish Cancel He	p

Click Finish to start the migration process.

CHECKING OUT RESOURCES

Studio lets you check out resources, edit them and check them back in. While you have a resource checked out, it is *locked* and others cannot check it out, although they can open it in view-only mode.

There are several ways to check out resources. For instance, to check out a section you simply double click Sections, then select the section you want to check out on the Open File window and click Ok.

Another way to check out a resource is to double click Library in the workspace to bring up the library view, then right-click a resource in the library view and select Check Out.

Red check marks indicate	XTrainingCompa	ny10_DEV										
	Filter/Search	4										
resources checked out by	Filter		Auto Hide Name	- T	Ver	Rev	Effective Date		User	Secured	Description	
other users.	🔊 ! 🏘 🚺 😂	Ð 🕖	XTRAININGCOMP/	Type BDF	00001	00002	Lifective Date	Locked	DOCUCORP	Secured	Test for GENTRAN	10/15/2
	▼ Filter Values		NAME	DAL	00001	00001	1/1/1980		JDOE		Initial check in.	5/28/20
	Name		SETRCPTB	DAL	00001	00001	1/1/1980		JDOE		Initial Check In	6/1/201
	Type	lang	AUTO 25 TO 50	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/28/20
	Version	(all)	AUTO OVER 50	FAP	00001	-00001_	1/1/1980		JDOE		Initial check in.	5/28/20
	Revision	(last)	AUTO UNDER-25	FAP	00001	00002	1/1/1980	🗸 DOCUCO	DOCUCORP		Initial check in.	10/16/2
	Effective Date	(any)	BACK OF STUB	FAP	00661	00001	1/1/1980		JDOE			6/3/201
	Description		BILL INFO	FAP	00001	00001	1/171980		JDOE		Initial check in.	5/28/20
	Locked	(any)	FL ADDRESS	FAP	00001	00002	1/1/1980	V DOCUCO	DOCUCORP		Initial check in.	10/16/2
Green check marks	Secured	(any)	FL AUTO PAY NEX	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/30/20
indicate resources you	User ID	(any)	FLAUTO PAY REM	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/28/20
have checked out.	Mode	(any)	FL BILL 1	FAP	00001	00002	1/1/1980	🧹 USER1 -	USER1		Initial check in.	10/16/2
nave checked out.	Status	(any)	FL BILL 2	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/28/20
	Class	(any)	FL BILL 3	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	9/9/201
	Project	(anu)	FL BILL 4	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/30/20
	Filtering	0 0	FL BILL ADDR A	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/28/20
		^	FL BILL ADDR B	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	9/21/20
	To make it easi	er to work with	FL BILL ADDR C	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/30/20
	Preview Filter/Search		FL RILLADDR2	FAP	00001	00001	1 /1 /1 920		IDOF		Initial chack in	9/27/20
	Titoriov Titori Jodi Ci											

Note You can only check out the latest revision of a specific version of a resource. You cannot, for example, check out version 1.4 of Q1SNAM if a version 1.5 exists.

When you check out a resource, this is what happens:

• In the library index record for the resource you are checking out, the RecStatus column is set to LOC and your user ID is placed into the UserID column.

In the library index, the Locked column will contain a green check mark to indicate you have checked out the resource (a red check mark indicates another user has checked out the resource).

• A long (or *versioned*) resource name for the resource is created and the resource is retrieved from the library and placed onto disk with the long file name. The long file name consists of the resource name concatenated with the version, revision and effective date of the resource. For example, if version 2, revision 3 of Q1ADDR, with an effective date of 4/21/2007 is checked out, it will be written to disk with this name:

Q1ADDR_0000200003_20070421.FAP

The file is marked as a read/write file. The version, revision, and effective date for the resource appear on the title bar so you can tell which version/revision of the resource you are editing.

The resource is stored on disk in the appropriate directory. You specify these directories in the MasterResource control group, as shown below:

<	MasterResour	ce >
	$BDFLib = \setminus B$	DFLIB
	$GRPLib = \backslash G$	RPLIB
	FORLib = $\setminus F$	ORLIB
	FormLib= \H	ORMS
	$DDTLib = \setminus D$	EFLIB
	LogoLib= \H	ORMS
	$DEFLib = \setminus D$	EFLIB

Option Description

BDFLib	BDF (business definition) files are stored here.
GRPLib	GRP (group) files are stored here.
FORLib	FOR (form) files are stored here.
FormLib	FAP files (sections) are stored here.
DDTLib	DDT files are stored here. (Legacy systems only)
LogoLib	Graphics (LOG) files are stored here. This is often the same directory used for FAP files.
DEFLib	DAL (Document Automation Language) files are stored here.

CHECKING IN RESOURCES

Once you finish making changes, you can check in the resource.

When you check in the resource, Studio asks for information the system needs to assign the appropriate version, revision and effective dates.

To check in a resource follow these steps:

1. With the resource open, choose File, Check In. The Check In window appears.

Check In	×
Name:	BASE3
Description:	PASE
Version:	00001 Increment version
Revision:	00002
Effective date:	02/19/2003
Mode:	
Status:	
Class:	
Project:	
OK	Cancel

2. Make entries into the following fields as necessary:

Field	Description
Description	You can enter up to 100 characters to indicate what type of change was made to the resource. This field defaults to the contents of the Description field of the resource checked out, but you can enter a different description if you like. Your entry in the Description field appears in the grid displayed on the Open File window and in the library view.
Increment Version	Check this box if you want Studio to increment the version number. If you only make a minor change you will probably want to just increment the revision number and not the version number. The revision number is automatically incremented by one if you do not check the Increment Version field. If you make a major change, or if you need to change the effective date of the resource that you are checking in, check the Increment Version field. This tells Studio to increment the version number by one and set the revision number to one. Once this field is checked, you can modify the Effective Date field. This makes sure all revisions of a resource have the same effective date. When a resource is checked out, changed, and checked back in, the older version/revision combinations of that resource remain in the library and can be loaded by the GenData and GenPrint programs or retrieved by Documaker Desktop or Docupresentment as needed. Keep in mind, however, you can only check out the latest revision of each version of a resource.
Effective Date	All revisions of a specific version of a resource must have the same effective date. This field is only available if you check the Increment Version field. When you enter an effective date, keep in mind the date must be equal to or later than the effective date of the prior version of the resource. The effective date defaults to MM/DD/YYYY, but may have a different format depending on your locale setting.

Field	Description
Mode	Use this field to assign a mode to the resource as it is checked in. For instance, you can use the Mode field to specify where in the development cycle the resource is. For more information, see <i>Defining Mode, Status, Class, and Project Options</i> on page 646.
Status	Use this field to assign a status to the resource as it is checked in. For instance, you could use the Status field to indicate whether a resource has passed or failed testing. For more information, see <i>Defining Mode, Status, Class, and Project Options</i> on page 646.
Class	Use this field to assign a class to the resource as it is checked in. For instance, you could use the Class field to indicate the market in which a resource was applicable. For more information, see <i>Defining Mode, Status, Class, and Project Options</i> on page 646.
Project	Use this field to assign a project ID to the resource as it is checked in. For instance, you could use the Project field to indicate which project a resource was associated with. For more information, see <i>Defining Mode, Status, Class, and Project Options</i> on page 646.

3. Click Ok when finished or Cancel to exit without checking in the resource.

This is what happens when you check in a resource:

• The contents of the long (or versioned) resource file are written to the data portion of the library and the long file name is deleted. For example, if you had originally checked out version 2, revision 3 of Q1ADDR FAP, with an effective date of 4/21/2007, the file written to disk during check out would have a long file name of:

Q1ADDR_0000200003_20070421.FAP

During check in, after this file is added to the data portion of the library, the file is deleted from disk.

• A new library index record for the resource is added to the library index file. This record contains the name, type, version, revision, effective date, modification date, description, mode, status, and so on of the resource.

Note the version or the revision, or both, of this library index record differs from those of the library index record for the resource originally checked out.

• The library index record for the resource originally checked out is updated so the RecStatus column is changed from *LOC* to blank. This shows the resource is no longer checked out.

On the Open File window and in the library view, Studio removes the green check mark that was in the Locked column.

UNLOCKING RESOURCES

When a resource is checked out it becomes locked. You can tell which resources are locked and by whom by looking at the Locked and User columns of the Open File window, shown here:

	3 XTrainingCompar	NTO DEV										
	Filter/Search	<u>4</u>										
	Filter											
	N ! M [] [] (0.00	Auto Hide Name	Туре	Ver	Rev	Effective Date	Locked	User	Secured	Description	
	10 : - 7 0 0		XTRAININGCOMP/	BDF	00001	00002	1/1/1980		DOCUCORP		Test for GENTRAN	10/15/2
	➡ Filter Values	-	NAME	DAL	00001	00001	1/1/1980		JDOE		Initial check in.	5/28/20
	Name		SETRCPTB	DAL	00001	00001	1/1/1980		JDOE		Initial Check In	6/1/201
	Туре	(any)	AUTO 25 TO 50	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/28/20
	Version	(all)	AUTO OVER 50	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/28/20
These files have been	Revision	(last)	AUTO UNDER 25	FAP	00001	00002	1/1/1980 🍗	🗸 DOCUCO	DOCUCORP		Initial check in.	10/16/2
abaakad aut by athar	Effective Date	(any)	BACK OF STUB	FAP	00001	00001	1/1/1980		JDOE			6/3/201
checked out by other	Description		BILL INFO	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/28/20
users.	Locked	(any)	FL ADDRESS	FAP	00001	00002	1/1/1980	🗸 DOCUCO	DOCUCORP		Initial check in.	10/16/2
	Secured	(any)	FL AUTO PAY NEX	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/30/20
	User ID	(any)	FL AUTO PAY REM	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/28/20
	Mode	(any)	FL BILL 1	FAP	00001	00002	1/1/1980	🧹 USER1	USER1		Initial check in.	10/16/2
	Status	(any)	FL BILL 2	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/28/20
	Class	(any)	FL BILL 3	FAP	00001	00001	1/1/1980	A	JDOE		Initial check in.	9/9/201
	Project	(anu)	FL BILL 4	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/30/20
This file has been	Tille air a	00	FL BILL ADDR A	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/28/20
	Filtering	00	FL BILL ADDR B	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	9/21/20
checked out by the	To make it easie	r to work with 🔗	FL BILL ADDR C	FAP	00001	00001	1/1/1980		JDOE		Initial check in.	5/30/20
current user (USER1).	·	an anniv a filtor to 🛛 💌	FLRILLADDR2	FAP	00001	00001	17171990		IDOF		Initial check in	8/27/20
	Preview Filter/Search	Properties	1									

Only the user who has locked the resource can resume editing the resource or unlock it.

There are several ways to unlock a resource:

- If you are editing a resource and you want to unlock the resource, choose the File, Unlock option. A window appears telling you your changes will be lost if you unlock the resource and asks whether you want to unlock it. Click Yes to unlock the resource.
- Double click Library in the workspace. From the library view, right-click the resource you want to unlock and choose Unlock from the menu.
- If the resource is in the workspace and has a green check mark next to it, you can either right-click the resource and choose Unlock from the popup menu or highlight the resource and choose Unlock from the File menu.

PROMOTING RESOURCES

You can promote one or more resources from one library to another and in the process have Studio modify the Mode, Status, Class, and Project fields. When you choose the Library, Promote option, the Promote Resources window appears.

Note You must have sufficient access rights to promote resources. If this option is unavailable to you, contact your system administrator.

Promote	
Promote	
(N) (I) (I) (I) (I) (I) (I) (I) (I) (I) (I	
 Target Library Values 	
Target Tier	TrainingCompany_UNIT
Library	TRAININGCOMPANY_DEV
Mode	Production
Status	Promoted
Class	GA
Project	
 Source Final Values 	
Mode	Development
Status	Passed
Class	GA
Project	
 Promote Commands 	
Promote Selected Files Only	
Include Descendants In Promote	V
Collapse Revisions Before Promote	
Preview	Preview
Promote	Promote Now

Changing properties of resources after promotion in the target library

On the Promote Resources window, you enter the Target Library Values you want the resources to have *after* they have been promoted to the new library. If you do not want to change these values, leave these fields blank.

The Promote Panel - Target Library Values group now displays the setting Target Tier. The Target Tier pick list will contain a listing of all defined library tiers for that workspace and this list depends on the current tier. The system populates the Target Tier name based on the current tiers and defined tiers.

If you do not want these values to change, simple ignore these Target Library fields.

Field	Description
Library	Select the name of the library that contains the resources you want to promote.
Mode	Select which mode you want Studio to look for when selecting resources to promote. For more information, see <i>Defining Mode, Status, Class, and Project Options</i> on page 646.
Status	Select which status you want Studio to look for when selecting resources to promote. For more information, see <i>Defining Mode, Status, Class, and Project Options</i> on page 646.

Field	Description
Class	Select which class you want Studio to look for when selecting resources to promote. For more information, see <i>Defining Mode, Status, Class, and Project Options</i> on page 646.
Project	Select which project ID you want Studio to look for when selecting resources to promote. For more information, see <i>Defining Mode, Status, Class, and Project Options</i> on page 646.

Changing the Mode, Status, Class, and Project values in the source library

In addition, you can have Studio change the Mode, Status, Class, and Project values for resources in the *source* library *after* they are successfully promoted. For instance, you can tell Studio to select resources with a Mode of DEV, promote them, then change the Mode value in the source library to TEST. This is done in the Source Final Values pane.

Field	Description
Mode	Select which mode you want Studio to assign after it moves a copy of the resource into the target library. For more information, see <i>Defining Mode, Status, Class, and Project Options</i> on page 646.
Status	Select which status you want Studio to assign after it moves a copy of the resource into the target library. For more information, see <i>Defining Mode, Status, Class, and Project Options</i> on page 646.y
Class	Select which class you want Studio to assign after it moves a copy of the resource into the target library. For more information, see <i>Defining Mode, Status, Class, and Project Options</i> on page 646.
Project	Select which project ID you want Studio to assign after it moves a copy of the resource into the target library. For more information, see <i>Defining Mode, Status, Class, and Project Options</i> on page 646.

If you do not want these values to change, simply ignore the Source Final Value fields.

Using a promotion script

You can save your resource promotion settings and reuse them. To save your settings, enter a name for the script in the Script File field and click Save Script. Studio appends an LSC extension onto the name you entered and stores the script in the DEFLIB directory.

icript File : Open Script Save Script Clear Script

To open a script, click Open Script and choose the script you want to run or edit. You can clear the settings from a script by clicking Clear Script.

Performing the Promotion

Click the Filter/Search tab to identify resources that you want to promote:

ter/Search Filter		
s 🚦 🏘 🚺 🚳 🤄 🥥		
· Filter Values		
Name		
Туре	Sections	
Version	(last)	
Revision	(last)	
Effective Date	(any)	
Description		
Locked	(any)	
Secured	(any)	
User ID	(any)	
Mode	DEV	
Status	PASSED	
Class	(any)	
Project	(any)	
Modified	(any)	
Filter / Search	Filter Now	
Search for references to		
Туре		

Back on the Promote tab, click Preview to see a list of the resources that qualify for promotion.

Studio tells you how many resources it selected and lets you scroll through the list

Promote List									
									23 records listed
Build List	Name	Туре	Ver	Rev	Effective Date	Locked	User	Description	Modi 🔺
Refresh List	ARR1	LOG	00001	00001	20030315			ARR1	05/27/2004 C
THEITESTI LISU	ARR1	LOG	00001	00002	20030315		MWN	ARR1	05/27/2004 C
Clear List	ARR1	LOG	00001	00003	20030315		MWN	ARR1	08/03/2004 C
	ARR1	LOG	00001	00004	20030315		MWN	ARR1	10/19/2004 C
	ARR1	LOG	00002	00001	20040315			ARR1	05/27/2004 C 🖵
	•			1	· · ·				•
Results									
Preview									
Promote Now									
Close									
Help									
	,								11.

Inspect the resources shown in the list. If necessary, make changes to your selection criteria and build the list again. When you have the list as you want it, click Preview. Studio runs a test promotion and shows you the results.

Note At this point, no changes have been made. Preview simply shows you what the result of your promotion script would be if you actually ran it.

If necessary, make changes to your selection criteria and preview the promotion again.

When you are satisfied with the results, click Promote Now to promote the resources. Note the Promote Commands fields listed on the Promote pane:

Promote		4
Promote		
© ♥ @		
 Target Library Values 		_
Target Tier	TrainingCompany_UNIT	
Library	TRAININGCOMPANY_DEV	
Mode	Production	
Status	Promoted	
Class	GA	
Project		
 Source Final Values 		
Mode	Development	
Status	Passed	
Class	GA	
Project		
 Promote Commands 		
Promote Selected Files Only	I	
Include Descendants In Promote	3	
Collapse Revisions Before Promote		
Preview	Preview	
Promote	Promote Now	

Note Be careful when collapsing revisions. This removes earlier revisions that may be needed for archive retrieval.

If you are sure you have the resources that meet your criteria, click the Promote Now button.

Promote Commands

- Skip Locked Files When checked on, the system will not promote any files that are locked (checked out).
- Promote Selected Resources Only To manually select the resources to promote, select the files in the library grid, then check this option on.
- Include Descendants in Promote The system will promote the descendants of the selected resource. To see an items descendants, right click after selecting a resource in the library grid. Select Item Descendants from the right click menu. The items descendants are displayed in the Descendants dialog.
- Collapse Revisions Before Promote Collapses all revisions and only show the most recent revision of a resource.
- Preview Runs a test based on your current promotion settings; does not perform a promotion. Results are listed in the output area.
- Promote Performs the promotion based on the promotion settings. Results are listed in the output area.

FILTERING RESOURCES

To make it easier to work with resources, you can apply a filter to select a subset of your resources. For instance, you can apply a filter to see only FAP files (sections) or only graphics with a given effective date. The filter tab is available on the Open File window and in the library view.

To create a filter, click the Filter tab:

Filter Values	
Name	
Туре	Sections
Version	(last)
Revision	(last)
Effective Date	(any)
Description	
Locked	(any)
Secured	(any)
User ID	(any)
Mode	DEV
Status	PASSED
Class	(any)
Project	(any)
Modified	(any)
Filter / Search	Filter Now
Search for references to	·
Туре	

Field	Description
Name	Enter the name or partial name of a resource or group of resources. You can use wildcards in your entry. For instance, <i>bil*.fap</i> will give you all the FAP files with names beginning with <i>bil</i> .
Туре	Select the type of file you want to filter on. You can choose from all types of files stored in the library.
Version	Choose either all or last to see all versions or only the last version.
Revision	Choose all, last, or EXP to see all revisions, only the last revision, or only expired revisions
Effective Date	Check this field and then select the effective date you want to filter on.
Locked	Choose from yes, no, or any to see only locked files, only files that are not locked, or any file.
User ID	Enter a user ID to see only files assigned to that user.
Mode	Select which mode you want to filter on.
Status	Select which status you want to filter on.
Class	Select which class you want to filter on.
Project	Select which project ID you want to filter on.
Script Name	Enter a name for the filter script you are creating or enter the name of the script you want to retrieve.

Click Save Script to save this filter script so you can reuse it.

- **Note** If you save a filter script, Studio remembers the script name and tries to use that script the next time you open the Open File window or the library view. To prevent Studio from remembering the script and trying to use it the next time, remove the script name before you exit this window.
 - Beginning with 12.4, Context tag is added as one of the items in "search for references to" drop-down box.

EDITING RESOURCE INFORMATION

The steps below tell you how to edit the Description, Effective Date, Mode, Status, Class, and Project fields for a resource.

1. From the library view, highlight the resource whose properties you want to modify and click the Properties tab.

Properties		4				
Properties				-		
🞽 📙 😻 🕘 🙆 👘			Name	Туре	Ver	Re
			XTRAININGCOMPA		00001	0000
Resource Properties			NAME	DAL	00001	0000
Name	AUTO 25 TO 50		SETRCPTB	DAL	00001	0000
Туре	FAP		AUTO 25 TO 50	FAP	00001	0000
Version	00001		AUTO OVER 50	FAP	00001	0000
Revision	00001		AUTO UNDER 25	FAP	00001	0000
Effective Date	1/1/1980		BACK OF STUB	FAP	00001	0000
Description	Initial check in.		BILL INFO	FAP	00001	0000
User ID	JDOE		FL ADDRESS	FAP	00001	0000
Mode	(blank)		FLAUTO PAY NEX	FAP	00001	0000
Status	(blank)		FL AUTO PAY REM	FAP	00001	0000
Class	(blank)		FL BILL 1	FAP	00001	0000
Project	(blank)		FL BILL 2	FAP	00001	0000
1						1

2. Make your changes. You cannot edit some fields, such as the version number. This table discusses the fields you can edit:

Field	Description
Effective Date	All revisions of a specific version of a resource must have the same effective date. The effective date for a resource must equal or fall after the effective date for the prior version of that resource. Studio prevents you from entering a prior date. The effective date defaults to MM/DD/YYYY, but may have a different format depending on your locale setting.
Description	You can enter up to 100 characters to indicate what type of change was made to the resource. This field defaults to the contents of the Description field of the resource checked out, but you can enter a different description if you like. Your entry in the Description field appears in the grid displayed on the Open File window and in the library view.
Mode	Use this field to assign a mode to the resource as it is checked in. For instance, you can use the Mode field to specify where in the development cycle the resource is. For more information, see <i>Defining Mode, Status, Class, and Project Options</i> on page 646.
Status	Use this field to assign a status to the resource as it is checked in. For instance, you could use the Status field to indicate whether a resource has passed or failed testing. For more information, see <i>Defining Mode, Status, Class, and Project Options</i> on page 646.
Class	Use this field to assign a class to the resource as it is checked in. For instance, you could use the Class field to indicate the market in which a resource was applicable. For more information, see <i>Defining Mode, Status, Class, and Project Options</i> on page 646.
Project	Use this field to assign a project ID to the resource as it is checked in. For instance, you could use the Project field to indicate which project a resource was associated with. For more information, see <i>Defining Mode, Status, Class, and Project Options</i> on page 646.

3. Click the Update Resource icon on the toolbar to record your changes.

Click Update Resource to save your changes.

DELETING RESOURCES

You must be a library or system administrator or have been assigned the specific right to delete library resources. If you do not have the appropriate rights, the red X icon shown below will not be enabled.

In all but very rare circumstances, if you have ever used the resource, you should not delete it. For example, suppose a form was used when a policy was archived and you later delete that form. If you later try to retrieve that form from archive, you will encounter problems because the system will not be able to load the form you deleted.

If you delete a resource from the library while it is checked out, you cannot later check in the resource. If you try, Studio tells you the resource has not been checked out. You would then have to close the resource and delete it from disk.

Note When you delete a resource from the library, Studio does not remove the file from disk if you had it checked-out or extracted a copy there. Studio merely removes the resource from the library. Once removed, you cannot undo this action.

 $\triangleleft \triangleright \mathbf{x}$ DEFLib\master.lby Properties **ņ** C:\FAP\dll\MyNewWorkspace\DEFLib\master.dbf 4 of 4 Properties Name Type Ver Rev Effective Date Locked User 🗶 🛃 😻 🔅 MYNEWWORKSPA BDF 00001 00001 01/01/2007 MWN SETROPTR DAL 00001 00001 01/01/2007 MWN Resource Properties TESTIMAGE FAP MWN 00001 01/01/2007 Name TESTIMAGE SYMBOL XDD 00001 00002 01/01/2007 MWN Туре FAP 00001 Version Revision Effective Date 1/1/2007 Description UserID MWN Mode (blank) Status (blank) Class (blank) (blank) Project Þ Preview Filter/Sea... Properties

To delete a resource from Library manager, first select the resource. Then, on the Properties tab for the resource, click the red X, as shown below.

Studio warns you that you cannot undo this action and lets you confirm the deletion.

🌮 De	ete Library	Items		×
Â		e able to undo this action. you want to delete the sele	cted item(s) from	the library?
		Run Impact Report(s)	Yes	No

Click Yes to delete the resource you selected. Studio then deletes the resource from the library and from your hard disk.

Click here to delete the selected resource.

Note There is a Delete option on the pop-up menu for the Workspace window and a Delete button on the Workspace List window. These options delete a file from disk and do not affect the library storage of the selected item — assuming it came from the library. Unlike deleting a resource from the library, you do not have to have special rights to use these Delete options.

COLLAPSING RESOURCES

Collapse is a destructive process that deletes library revisions. Once a resource has been collapsed, there is no Undo.

Therefore, it is extremely important you review and consider the following critical points before using the Collapse functionality.

- 1. Collapse should never be used on a resource that has made it into production. If done, this diminishes the ability to replicate a transaction from a smart archive, a reprint of an existing WIP transaction, or the import of any export that might have occurred from the original generation.
- 2. The most useful time to use collapse is at the first point where you consider a newly created resource to be complete and ready for testing. For instance, suppose you start a new form and it goes through several rounds of development and approvals before you are ready to promote it to a testing situation. Prior to promotion, this is where you might collapse the revisions since the development work to reach that first point of turnover may not be considered necessary historical artifacts that should be retained.
- 3. Be aware that collapsing revisions will make your selected row the revision 1 (00001) for that version. This means all the historical check-ins are lost between revision 1 up to the revision you collapsed.

If after reviewing the critical steps discussed above, you still wish to proceed with Collapsing a library resource, these steps outline the process

Collapse is available on the Properties panel in Library Manager.

You must have System Administrator rights to the workspace or the specific Library-Collapse Revision right.



Collapse is a destructive process that deletes library revisions. It makes your selected row the revision 1 for that version.

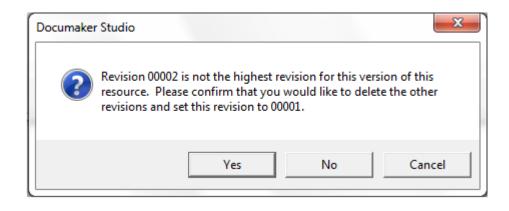
Clicking the collapse icon displays the Collapse Revision for the selected (highlighted) resource:

Highlight the highlighted wi					to keep, the	n click Collap:	se. The other re	visions will be removed	from the lbra	ary and the r	evision you	have
Name	Type	Ver	Rev	ffective Dat	Locked	User	Description	Modified	Mode	Status	Class	Project
DEC PAGE 1	FAP	00001	00001	19800101	DOCUMAKE	DOCUMAKE		01:43:04 PM				
DEC PAGE 1	FAP	00001	00002	19800101	DOCUMAKE	DOCUMAKE		01:43:14 PM				
DEC PAGE 1	FAP	00001	00003	19800101	DOCUMAKE	DOCUMAKE		01:43:29 PM				

If a lower revision is selected when the collapse button is pressed:

VP 0000	1 00001	ffective Dat 19800101 19800101 19800101	DOCUMAKE DOCUMAKE	User DOCUMAKE DOCUMAKE	Description	Modified 01:43:04 PM 01:43:14 PM 01:43:29 PM	Mode	Status	Class	Project
VP 0000	1 00002	19800101	DOCUMAKE	DOCUMAKE		01:43:14 PM				
VP 0000	1 00003	3 19800101	DOCUMAKE	DOCUMAKE		01-42-20 PM				
						01:45:29 PM				
										Collapse

A warning message is displayed:



Highlight the r highlighted wil				to keep, th	ien click Collap	pse. The other re	evisions will be removed	from the libr	ary and the r	evision you	have
Name	Type	Ver R	w ffective Da	Locked	User	Description	Modified	Mode	Status	Class	Projec
DEC PAGE 1	FAP	00001 00	01 19800101	DOCUMAK	E DOCUMAKE		01:43:14 PM				

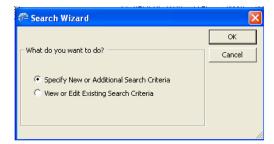
Once a resource has been collapsed, there is no Undo.

```
Note If you collapse a resource, it will not be available for comparison using Documaker Compare. For more information, see "Working with Libraries", Comparing Resources, Library Collapse and Comparison topic in this guide.
```

SEARCHING THE LIBRARY

You can use the Library, Search wizard option to identify resources that reference (or contain) other resources or resource elements. For instance, since FAP files can contain references to graphics (LOG resources), fields, rule names, and text labels, you can use this option to search the library for FAP files that contain a given field name or that use a certain rule.

When you choose the Library, Search Wizard option, the Search wizard appears.



Defining the resources

If you use a New search, then the Search window appears:

Name		
Туре	(any)	
Version	(all)	
Revision	(last)	
Effective Date	(any)	
Description		
Locked	(any)	
Secured	(any)	
User ID	(any)	
Mode	(any)	
Status	(any)	
Class	(any)	
Project	(any)	
Modified	(any)	
Search for references to		
Туре		

Field Description

	-
Name	Enter the name or partial name of a resource or group of resources. You can use wildcards in your entry. For instance, specifying a type of FAP and a name value of <i>bil*</i> tells Studio to search all FAP files with names that begin with the letters <i>bil</i> .
Туре	Select the type of resource you want to filter on. You can choose from these types of resources: BDF, GRP, FOR, and FAP.
Version	Choose either all or last to see all versions or only the last version.
Revision	Choose all, last, or EXP to see all revisions, only the last revision, or only expired revisions
Effective Date	Search for a specific effective date on a resource.Options include Equal To, On or Before, On or After or Between (Inclusive). A Date Value field appears if you select this field for MM/DD/ YYYY.
Description	Enter a description string. You can use wildcards.
Locked	Choose from yes, no, or any to see only locked files, only files that are not locked, or any file
Secured	Choose a user ID to show only the resources available to that user or group of users.
User ID	Enter a user ID to see only the resources last modified by that user.
Mode	Use this field to tell Studio to include only those resources assigned the mode you specify.
Status	Use this field to tell Studio to include only those resources assigned the status you specify.
Class	Use this field to tell Studio to include only those resources assigned the class you specify.
Project	Use this field to tell Studio to include only those resources assigned the project ID you specify.
Modified	Use this field to list resources that were last modified on a specific date.

Using a search script

You can save your search settings and reuse them. To save your settings, enter a name for the script in the Script File field and click Save Script. Studio appends an LSC extension onto the name you entered and stores the script in the DEFLIB directory.

|--|

To open a script, click Open Script and choose the script you want to run or edit. You can clear the settings from a script by clicking Clear Script.

Performing the Search

Once you define the search settings, click Next to see the following screen:

♥ Search Option	×		
Search result option			
Replace All Current Results with Matching Records			
C Search Within Current Results Only C Add Matching Records to Current Results			
Add Matching Records to Current Results C Remove Matching Records from Current Results			
Remove matching Records from Current Results			
New Criteria			
< Back Finish Cancel Help			

If you click Finish, the resources matching the search results appear in the library view list.

You can highlight on any selected resource, then right-click and perform the desired task: See *Opening a Library* on page 605 for a list of tasks and their descriptions.

EXTRACTING RESOURCES

You can extract a resource from a library using the Library, Extract option. The Extract Library Resources window appears.

Ex	ract	. .		
E	xtract			
6	1 🕀 🕖		Name	
			XTRAININGCOMP4	
•	Extract to a single directory		NAME	Di
	Path	C:\FAP\mstrres\xtrainingcompany10\	SETRCPTB	Dr
Þ	Extract to different directories		AUTO 25 TO 50	F/
÷	Other options		AUTO OVER 50	F/
	Extract to long file name	Yes	AUTO UNDER 25	F/
÷	Extract Commands		BACK OF STUB	F/
	Extract Selected Files Only		BILL INFO	FA
	Preview	Preview	FL ADDRESS	F/
	Extract	Extract Now	FL AUTO PAY NEX	F/
			FL AUTO PAY REM	F/
			FL BILL 1	F/
			FL BILL 2	F/
			FL BILL 3	F/
			FL BILL 4	F/
			FL BILL ADDR A	F/
			FL BILL ADDR B	F/
I			FL BUL ADDD C	/

Identifying the resources to extract

Click the Filter/Search pane to identify the resources to extract.

Extract options

Other Extraction options appear when you expand the view in the Extract pane:

tract	
(1) 🔞	
Extract to a single directory	
Path	C:\FAP\mstrres\xtrainingcompany10\
Extract to different directories	
BDFLib	
GRPLib	
FORLib	
FAPLib	
LOGOLib	
DALLib	
All Others	
Other options	
Extract to long file name	Yes
Extract Commands	
Extract Selected Files Only	
Preview	Preview
Extract	Extract Now

Field

Description

Path	Enter a path to extract the selected resources to a specific path.

Field	Description
Extract to different directories	Click to display fields into which you can define individual directories for each type of resource.
Extract to long file name	Select Yes to use long file names. Select No to use the 8.3 file naming convention on extracted resources.
	Long file names are created by taking the resource name, appending an underscore followed by the version and revision, then appending another underscore followed by the date in YYYYMMDD format, and then adding an extension to indicate the resource type. Here is an example:
	FileName_0000100001_20041201.fap

Performing the Extraction

Once you define the extraction settings, click Preview to have Studio create a list of the resources that qualify for extraction.

Inspect the resources shown in the list. If necessary, make changes to your selection criteria and build the list again. When you have the list as you want it, click Preview. Studio runs a test extraction and shows you the results.

Note At this point, no changes have been made. Preview simply shows you what the result of your extraction script would be if you actually ran it.

If necessary, make changes to your selection criteria and preview the extraction again. When you are satisfied with the results, click Extract Now to extract the resources.

EXPIRING RESOURCES

You can expire a resource you no longer want to maintain. In essence, expiring a resource is like retiring a resource. The resource remains in the library, but has *EXP* as its revision number. To expire a resource, highlight the resource on the library view or from a search list and right-click. Then choose the Expire option. The Expire window appears.

Expire	×
Name:	AFTERW
Description:	AFTERW
Version:	00001 Increment version
Revision:	EXP
Expiration date:	11/28/2004
Mode:	
Status:	
Class:	
Project:	_
ОК	Cancel

Expiring a resource tells Studio to check into the library another revision of the resource, but with *EXP* as the value of the Revision field.

By default, the expiration date is set to today's date but you can change this date if necessary. The expiration date you specify must be greater than or equal to the effective date of other revisions within this version and must be less than or equal to the effective date of the next version of the resource, if one exists.

On the Expire window, you can also enter a description and set the Mode, Status, Class, and Project fields. Once you are satisfied with the values, click Ok to expire the resource.

COMPARING RESOURCES

Starting in 12.5, Documaker introduces a comparison tool called Documaker Compare in Documaker Studio that helps a user compare two documents to determine where the differences occur. A user selects the resources to be compared from the Library Manager grid in Library Manager. The selected resources are loaded in the Documaker Compare views for comparison.

To launch Compare, go to the Library Manager grid in Documaker Studio's Library Manager. Select the resource(s) you want to compare and right-click on the selected resource(s).

Note The right-click menu can be accessed by pressing Shift + F10.

Name	Туре	Ver	Rev	Effective Date	Locked	User	Secured	Desc
DALFUNCTIONS	BDF	00001	00005	1/1/1980		VINODD		Initial check
SETRCPTB	DAL	00001	00035	1/1/1980	SRASHY/	SRASHYAN		Initial check
SECTION1	FAP	00001	00031	1/1/1980	I COACHY	COACHVAN		-
SECTION2	FAP	00001	00003	1/1/1980	Check I			[
UNTITLED5	FAP	00001	00002	1/1/1980	Unlock			
FORM1	FOR	00001	00004	1/1/1980	Item Hi	story		
FORMLIST1	GRP	00001	00002	1/1/1980	Copy a	nd Rename		
PARA1	PAR	00001	00002	1/1/1980	Compa	re celected re-	COURCES	
PARA2	PAR	00001	00001	1/1/1980		Compare selected resources Compare with previous revision		
PARA3PAR	PAR	00001	00001	1/1/1980	Compa	re with previo	us revision	
PARA4	PAR	00001	00001	1/1/1980	Item De	scendants		
PARA5	PAR	00001	00001	1/1/1980	Sample	Print		
PSL1PSL	PSL	00001	00003	1/1/1980	Find			
SYMBOL	XDD	00001	00001	1/1/1980	Library	Grid Report		2
						This Window	File	
							io i ne	
					Grid La	Wizard		

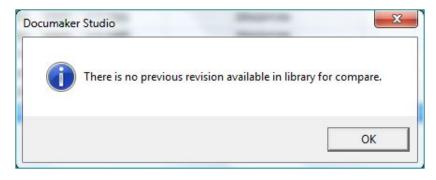
The following two options from the right-click menu are used to launch Compare:

• **Compare selected resources** – offers to compare the two resources selected in the Library Grid. If you select more than two resources or only one resource to compare, the system will display a dialog notifying the user to select only two files for comparison.



• **Compare with previous revision** – will compare the selected resource with a prior revision of the same resource name. When this option is selected, the system displays the Compare Revision Dialog. All revisions that exist in the library at the time of initiation of the comparison are displayed.

If there is no revision of the selected resource, Studio displays a dialog stating the same.



The Compare Toolbar



The Compare toolbar is composed of the following Tabs:

Navigation Tab – allows you to quickly see and navigate through the entire document. Following Navigation Options are available from the Navigation Tab:

Command	Description		
Previous Page	Takes you to the previous page of a multi-page document.		
Next Page	Takes you to the next page of a multi-page document.		
Previous Change	Takes you back to the previous change in the document.		
Next Change	Takes you back to the next change in the document.		

O	ptions	Tab –	lists	the	follow	ving	commands:

Command	Description		
Swap Sides	Swaps the upper-left and upper-right panels.		
Link Scroll	Keeps the documents in sync when moving around in the panels. When Link Scroll is active, scrolling horizontally or vertically will impact both the upper-left and upper-right panels. When Link Scroll is turned off, horizontal or vertical scrolling affects only the panel that has focus.		
Link Zoom	Keeps the documents in sync when changing zoom levels in the panels. When Link Zoom is active, zooming In or Out will impact both the upper-left and upper- right panels. When Link Zoom is turned off, changes made to zooming levels affect only the panel that has focus.		

Zoom Tab – allows you to use the zoom feature to control the size of the documents within the panels. You can quickly zoom in or zoom out to make the document larger or smaller, or you can select from a preset list of zoom commands:

Command	Description
Zoom In	Use this option to increase the magnification of your document by 10%. Each time you select the Zoom In, the display increases. Zoom In lets you to quickly increase your display size for a "close up" view.
Zoom Out	Use this option to decrease the magnification of your document by 10%. Each time you select the Zoom Out, the display decreases. Zoom Out lets you quickly decrease your display size for a complete view.
Zoom Normal	Use this option to return the magnification to 100% or actual size.
Fit to Width	Use this option to automatically change the magnification so that the width of the document matches the width of the window. You see a complete horizontal display, which eliminates the need to scroll from side to side.
Fit to Window	Use this option to automatically change the magnification so that the entire page of a document is visible, regardless of the size.

View Tab – lists the following command:

Command	Description
Filter	Use this option to display the Compare Options Dialog.

Help Tab – lists the following commands:

Command	Description
Contents	Displays Help for Documaker Compare.
About	Displays information about Documaker Compare including the Release Number, Build Number, and Copyright information.

Style Setting for the Compare User Interface

The Style setting affects the ribbon toolbar color and display. You can use the Style setting to give the display and the ribbon toolbar any type of style from the following available styles:

Office 2007 (Blue)



Office 2007 (Black)

	Sec. Sec.			Doci	umaker	Compare	Section.	Striken, Man	- 0 - X
Home									Style 👻 🌝
Previous Next Page Page Chang		Swap L	Link Link croll Zoom	e In	Out	Normal Fit to Width Fit to Window	Filter	Contents About	
Navigation		Op	otions	2	Zo	om	View	Help	

Office 2007 (Silver Style)

(D));					Do	cumake	er Compare			
Home										Style - 😡
Previous Next Page Page	Previous Next Change Change	Swap Sides	Link Scroll	Link Zoom	In	Out	Normal Fit to Width Fit to Window	Filter	Contents About	
Navig	ation	0	Options			Z	oom	View	Help	

Office 2007 (Silver Style)

Documaker Comp	are	A DESCRIPTION OF TAXABLE PARTY.			- • • × •
Home					Style 🝷 🥑
Previous Next Page Page Change Change	Swap Link Link Sides Scroll Zoom	In Out Fit to Width Fit to Window	Filter	Contents About	
Navigation	Options	Zoom	View	Help	

Launching the Compare Help

Clicking on the Help Icon 🕐 opens the Help document for the current Task or Command.

The Compare Window

The Compare display is composed of multiple Panel and Tab views.

Page					Pag	e 1		-
		DAL FUNCTIONS				D	AL FUNCTIONS	
						INSERTLI	STITEM	
-						insert state without index:		c
						Insert state with index:		
						Insert state with index negative		
						Insert state with index zero:		
						insert state with "out of range index":		C
						Insert state at Starting in State		
					1 10	string:		
Action	Object	Name		Name	SECTIO	N1 v1.1 1/1/1980	SECTION1 v1.31 1/1/1980	
Deliete	Document			User	VINCOD		SRASHYAN	1
Update	Section	SECTION1		Modified	11/10/20	15 02:57:01 PM	12/03/2015 12:12:30 PM	
nsert	Field	Field	_	Description				
nsert	Field	FIELD #002		Name	SECTIO	N1	SECTION1	
	Differences		,	Properties Information		-		

The upper-left and upper-right panels display a preview of the resources being compared. The resource selected first for comparison is considered to be the new resource and is displayed in the upper-right panel whereas the resource selected second is considered to be the base resource and is displayed in the upper-left panel. When comparing with previous revisions, the resource selected first becomes the base; the one selected second is the new resource.

Tabs are located at the bottom of the window and are as follows:

Tab	Description
Output	Displays any messages specific to Compare.
Differences	Displays an Action, the Object and the Objects Name. Lists items unique to the new file; items are listed in the order reported from comparison.
Properties	As you click on an object in the Differences tab, the properties for that object are displayed in the Properties tab.
Information	 Displays properties for the resources being compared. For resource objects such as Sections, Forms, etc., the Information tab displays the following properties: User - The ID of the User who checked that version/revision of the resource into the library Modified - The system date/time of that version/revision of the resource when it was checked into the library Description - The description assigned to that version/revision of the resource when it was checked into the library Name - The name of the resource Version - The version of the resource Revision - The revision of the resource Type - The type of the resource; FAP (Section), FOR (Form), BDF (Business Definition File), etc. Effective Date - The effective date of the resource For individual objects such as Fields, Graphics, etc., the information tab displays individual object properties such as Name, Position, Font ID, etc.

The column sort order or the order in which the items are listed in columns can be changed by double-clicking on the column heading. Column headings where the sort order can be changed include the Action, Object and Name columns in the Differences tab and the Attribute, Property and Individual Resource columns in the Properties tab.

Note Swap Sides or Filter option OK button will reset the list back to the original sort order.

The Compare Options Dialog

When you choose the View, Filter option, the Compare Options dialog displays.

Exclude Header Sections	- (Compare Options		
Exclude Copy on Overflow Sections	1	Exclude Header Sections		
Exclude Background Sections	E	Exclude Footer Sections		
Exclude Field Positioning	6	Exclude Copy on Overflow Sections		
Display Units	E	Exclude Background Sections		
	E	Exclude Field Positioning		
Measurement Inches	- 1	Display Units		
	1	Measurement	Inches	

• **Compare Options** – allows you to flag the following options:

Option	Description
Exclude Header Sections	Header sections are excluded from comparison.
Exclude Footer Sections	Footer sections are excluded from comparison.
Exclude Copy on Overflow Sections	Sections which are flagged for copy on overflow are excluded from comparison.
Exclude Background Sections	Excludes sections marked as Background section from comparison.
Exclude Field Positioning	Excludes positions for fields from comparison. If this is the only attribute listed for a field, the field may no longer be listed on the Properties tab.

- **Measurement** is the unit of measurement for object attributes on the Properties tab. The selections include the following:
 - Centimeters
 - FAP units (2400 per inch)
 - Inches
 - Picas
 - Points

Resizing Grid Windows in Compare

You can resize certain grid windows containing the Panels and Tabs. This lets you customize the display of information.

To size the window, simply place your cursor on the horizontal or vertical edge of the window. The pointer will change to the sizing cursor. Then click and drag the window to the size you want. When you release the mouse, the system remembers the size you have selected and displays the window using that size in the current dialog. However, these changes are not preserved, i.e. if you close that Compare dialog and then select a new set of resources to compare, the grid windows in the new Compare dialog have the default size.

Also, if you have multiple Compare dialogs open, the size changes made in one dialog do not affect the other dialogs that are open.

Note Each window has a minimum size.

Resources not eligible for comparison

Files such as Table (*.TLK) and Data Definition Table (*.DDT) are not eligible for comparison.

Comparing Different file types in Compare

Compare does not restrict you from comparing different types of resources. You can compare a section (*.FAP) to a Form (*FOR). However, this type of comparison may not be useful. Generally, you would compare the same types of resources, for example a section (*.FAP) to a section (*.FAP).

Note A DAL script can only be compared to DAL script, and an XDD script can only be compared to XDD script.

Comparing Locked Files in Compare

Files that are locked (checked out) by either you or other users can be compared. However, the comparison is simply a 'state' of the files at the time you launched it. Compare does not have any way to know after it was initiated, that one or both files being compared were changed. Changes can include unlocking the file, checking the file in or modifying the checked out file and saving it without checking it in.

If you are the one with the file locked, Compare will pick up the local changes you saved for comparison. Compare would only compare what was saved up to that point.

Comparing Expired Files in Compare

Files that are expired can be compared. Expired resources have a revision of EXP. When comparing an Expired resource to a previous revision, the expired resource will match the last revision that was checked in. So, for example, if you have Version 1 Revision 1, Version 1 Revision 2 and Version 1 Revision EXP of a resource, Version 1 Revision 2 and Version 1 Revision EXP will be a match to each other.

Library Collapse and Comparison

Comparison can be performed by either Comparing Selected Resources or Comparing with Previous Revision of that resource. In order to perform Compare with previous revisions, those revisions must be available in the library for selection.

Collapsing library revisions has a detrimental impact on Compare. Collapse is a destructive process that deletes library revisions. Once a resource has been collapsed, there is no Undo. When a resource has been collapsed, the prior revisions are no longer available for comparison. Information on when the changes were implemented and by whom, is lost when revisions are collapsed. Therefore, you must carefully consider this and other ramifications before collapsing revisions.

Mobile Options

Oracle Documaker Mobile is not required in order to compare and report any differences in mobile settings (context tag, omit, global context tag) in the resources being compared.

For example, User A may add or change mobile settings on a text label in a section in the Development Workspace and then promote the original and revised sections to the Test Workspace. User B has Documaker Studio installed locally, but does not have Oracle Documaker Mobile. If User B opens the Test Workspace and compares the original and revised sections that were promoted from the Development Workspace, Compare will report any differences in the mobile settings between the resources.

REVIEWING A HISTORY OF RESOURCE CHANGES

To see what changes have occurred to the resources in your library, choose the Library, History option. The Library Log window appears.

	XTrainingCompany10_D	EV 💽 DEFLIB\lbylog.bdf							
Fil	ter/Search	7							
	istory Filter		Name	Action	Library	Date	Time	Туре	
R) 🚦 🗣 🔘		XTRAININGCOMPA		DEFLIB\MASTER.LBY		17:30:08		In
÷	Filter Values			PROMOTED FROM	C:\fap\mstrres\TrainingCompany\Defli				0
	Name		TRAININGCOMPAN	PROMOTED TO	xtrainingcompany10_DEV	9/9/2010	17:30:13	BDF	0
	Action	(any)	TRAININGCOMPAN	PROMOTED FROM	C:\fap\mstrres\TrainingCompany\Deflil	9/9/2010	17:30:13	BDF	0
	Туре	(any)	TRAININGCOMPAN	PROMOTED TO	xtrainingcompany10_DEV	9/9/2010	17:30:13	BDF	0
	User ID	(any)	TRAININGCOMPAN	PROMOTED FROM	C:\fap\mstrres\TrainingCompany\Deflil	9/9/2010	17:30:13	BDF	0
	Mode	(any)	TRAININGCOMPAN	PROMOTED TO	xtrainingcompany10_DEV	9/9/2010	17:30:13	BDF	0
	Status	(any)	TRAININGCOMPAN	PROMOTED FROM	C:\fap\mstrres\TrainingCompany\Deflil	9/9/2010	17:30:14	GRP	0
	Class	(any)	TRAININGCOMPAN	PROMOTED TO	xtrainingcompany10_DEV	9/9/2010	17:30:14	GRP	0
	Project	(any)	TRAININGCOMPAN	PROMOTED FROM	C:\fap\mstrres\TrainingCompany\Deflil	9/9/2010	17:30:14	GRP	0
	Process		TRAININGCOMPAN	PROMOTED TO	xtrainingcompany10_DEV	9/9/2010	17:30:14	GRP	0
	Find Now	Find Now	BILL	PROMOTED FROM	C:\fap\mstrres\TrainingCompany\Deflil	9/9/2010	17:30:15	FOR	0
•	Log Date Options		BILL	PROMOTED TO	xtrainingcompany10_DEV	9/9/2010	17:30:15	FOR	0
	 Purge Before 	10/16/2010	GENDATA	PROMOTED FROM	C:\fap\mstrres\TrainingCompany\Deflil	9/9/2010	17:30:15	FOR	0
	Purge Older Than	0	GENDATA	PROMOTED TO	xtrainingcompany10_DEV	9/9/2010	17:30:15	FOR	0
	Purge Now	Purge Now	MEDICAL HISTORY	PROMOTED FROM	C:\fap\mstrres\TrainingCompany\Deflil	9/9/2010	17:30:15	FOR	0
	•		MEDICAL HISTORY	PROMOTED TO	xtrainingcompany10_DEV	9/9/2010	17:30:15	FOR	0
			MEDICAL HISTORY	PROMOTED FROM	C:\fap\mstrres\TrainingCompany\Defli	9/9/2010	17:30:15	FOR	0
			MEDICAL HISTORY	PROMOTED TO	xtrainingcompany10_DEV	9/9/2010	17:30:15	FOR	0
			PREMIUM CONFIR	PROMOTED FROM	C:\fap\mstrres\TrainingCompany\Defli	9/9/2010	17:30:15	FOR	0
			PREMIUM CONFIR	PROMOTED TO	xtrainingcompany10_DEV	9/9/2010	17:30:15	FOR	0
			TRAININGCOMPAN	PROMOTED FROM	C:\fap\mstrres\TrainingCompany\Deflil	9/9/2010	17:30:15	FOR	0

Studio shows you a log of all changes to all resources. You can filter this list by assigning filter values.

For instance, you can use a filter to see only FAP files which have been checked in by a specific user. Here are the fields you can define to create a filter:

Field	Description
Name	Enter the name or partial name of a resource or group of resources. You can use wildcards in your entry. For instance, specifying a type of FAP and a name of <i>bil*</i> tells Studio to display the log entries for all FAP files whose names begin with the letters <i>bil</i> .
Action	Choose from these actions: any, added, checked in, checked out, deleted, promoted from after, promoted from before, promoted to, unlocked, updated from, or updated to.
Library	Select the library in which the resources are stored.
Туре	Select the type of file you want to filter on. You can choose from all types of files stored in the library.
User ID	Enter the user ID for the user on whom you want to filter.
Mode	Select which mode you want to filter on.
Status	Select which status you want to filter on.
Class	Select which class you want to filter on.
Project	Select which project ID you want to filter on.

Click Filter Now to apply the filter.

RUNNING RESPONSE FILES

A response file is a file created by the LBRYMGR utility which contains commands and data. These commands and data are then read and processed accordingly. There are two ways to process a response file:

- Using the LBRYMGR utility (see the Utilities Reference for more information)
- Using Studio

To read and process a response file using Studio, follow these steps:

1. Choose the Library, Run Response File option. The Open window appears from which you can select the response file you want to run.

Open					? ×
Look in:	🔄 DEFLIB		•	+ 🗈 💣 🔳	-
History Desktop Documents					
Computer	File name:			▼	Open
04	Files of type:	Response Files (*.RSP)		•	Cancel
Network		🗖 Open as read-only			

2. Select the response file to process and click Ok. Studio displays messages to show you its progress.

DEFINING MODE, STATUS, CLASS, AND PROJECT OPTIONS

Use the Manage, System, Settings option to define the Mode, Status, Class, and Project options users choose from when checking in a resource. These options are grouped under Library manager, as shown here:

🚰 xtrainingcompany10 (DEV	- Development) - Docur	naker Studio - Settings	
INI Configuration Set! Database Handlers Database Handlers Libraries Library Tiers Print Batches & Printe Resource Path Setup Options by topic	Listed below are the Li Libraries contain docur	odes Classes Projects Library Log braries that are defined for this Workspace. ment composition elements such as Forms (FOR), gos (LOG). To add, delete or modify a Library, right.	Add Delete Properties 1 record listed
 Archive Arcsplit 	Full Name	Description	DB Handler
Common Database Development Toc Entry Import and Expor Libraries Library Tiers Print Resource Path Se Rules Processing WIP	C:\FAP\mstrres\xtrainingcom	pany10\Defilb\MASTER.LBY	CFAB9219
		OK Cancel	Help

You can have multiple modes, classes, statuses, and projects.

Option Description

Mode	Use this option to set up the modes users will select from in the Mode field as they edit resource information. For instance, you can use the Mode field to specify where in the development cycle the resource is. You can set up multiple options, as shown here:
	Mode = DEV;Development Mode = TEST;Testing Mode = PROD;Production
	These entries set up these modes: DEV, TEST, and PROD. The text after the semicolon is an optional description.
Status	Use this option to set up the statuses users will select from in the Status field as they edit resource information. For instance, you could use the Status field to indicate whether a resource has passed or failed testing. You can set up multiple statuses, as shown here:
	<pre>Status = TEST;Test Status = PASSED;Passed testing Status = FAILED;Failed testing</pre>
	These entries set up these statuses: TEST, PASSED, and FAILED. The text after the semicolon is an optional description.

Option	Description
Class	Use this option to set up the classes users will select from in the Class field as they edit resource information. For instance, you could use the Class field to indicate the market in which a resource was applicable. You can set up multiple classes, as shown here:
	Class = GA; Georgia resource Class = TX; Texas resource Class = MD; Maryland resource These entries set up these classes: GA, TX, and MD. The text after the semicolon is an optional description.
Project	Use this option to set up the projects users will select from in the Project field as they edit resource information. For instance, you could use the Project field to indicate which project a resource was associated with. You can set up multiple projects, as shown here:
	Project = P001;Project 001 Project = P002;Project 002 Project = P003;Project 003
	These entries set up these projects: P001, P002, and P003. The text after the semicolon is an optional description.

SEARCHING FOR LIBRARY RESOURCES

Use the Type field under the Search for References To on the Filter tab in Library manager to select the type of library resources you want.

Filter	
🔊 ! 终 💕 💕	(i)(i)
Revision	(last)
Effective Date	(any)
Description	
Locked	(any)
Secured	(any)
User ID	(any)
Mode	(any)
Status	(any)
Class	(any)
Project	(any)
Modified	(any)
Filter / Search	Filter Now
 Search for reference 	es to
Type	S 2
Type	
Preview Filter/Sea	arch Field Data
	Field Data
	Field Data Text Font
	Field Data Text Font Graphic Rule (Section)
	arch Field Data Text Font Graphic Rule (Section) Rule Source (Section)
	Field Data Text Font Graphic Rule (Section) Rule (Source (Section) ■Rule (Field)
	Arch Field Data Text Font Graphic Rule (Soction) Rule Source (Section) Rule (Field) Record Name (XDD) Record Name (DDT)
	Field Data Text Font Graphic Rule (Section) Rule (Field) Record Name (XDD) Form Metadata
	Arch Field Data Text Font Graphic Rule (Section) Rule (Section) Rule (Field) Record Name (DDT) Form Metadata Tingger Text
	Field Data Text Font Graphic Rule (Section) Rule (Field) Record Name (XDD) Form Metadata
	rch Field Data Text Font Graphic Rule (Section) Rule (Section) Rule (Field) Record Name (DDT) Form Metadata Trigger Text Trigger Script Template Style
	rch Field Data Text Font Graphic Rule (Section) Rule (Section) Rule (Field) Record Name (XDD) Record Name (XDD) Form Metadata Trigger Text Trigger Text Trigger Script Template Style Descendant of
	arch Field Data Text Font Graphic Rule (Section) Rule (Section) Rule (Field) Record Name (DDT) Form Metadata Trigger Text Trigger Script Template Style Descendant of Note
	rch Field Data Text Font Graphic Rule (Section) Rule (Section) Rule (Field) Record Name (XDD) Record Name (XDD) Form Metadata Trigger Text Trigger Text Trigger Script Template Style Descendant of
	rch Field Data Text Font Graphic Rule (Section) Rule Source (Section) Rule (Field) Record Name (XDD) Record Name (DDT) Form Metadata Trigger Script Template Style Descendant of Note Task

Select the type of resource you want to filter on. When you select a Type, additional fields appear, depending on the Type you selected.

Option	Description
Form List	Select this option to search for a form list. Then enter the name of the form list.
Form	Select this option to search for a specific form. Then enter the name of the form.
Trigger	Select this option to search for a specific trigger. Then enter the name of the trigger.
Trigger data	Select this option to search the parameter area of a trigger for text you specify. For example, you might try to find any trigger rules which reference a specific search mask containing HEADERREC.
Section	Select this option to search for a specific section. Then enter the name of the section.
Recipient	Select this option to search for a specific recipient. Then enter the name of the recipient.
Field	Select this option to search for a specific field. Then enter the name of the field.
Field data	Select this option to search other field properties, including the field's pre- and post-edit data property areas. For example, you can search for all fields in a section that contain a TERSubstitute pre-edit function.
Text	Select this option to search for a specific text string.
Font	Select this option to search for a specific font. Then enter the ID of the font.
Graphic	Select this option to search for a specific graphic. Then enter the name of the graphic.
Form Metadata	Select this option to search for form metadata.
Trigger Text	Select this option to search for specific trigger text.
Trigger Script	Select this option to search for a specific trigger script. Then enter the name of the script.
Template	Select this option to search for a specific template. Then enter the name of the template.
Style	Select this option to search for a specific style. Then enter the name of the style.
Descendant of	Select this option to search for descendants of a specific resource. Then select the parent resource.
Note	Select this option to search for notes.
Task	Select this option to search for tasks. Then select the type of task.
Context	Select this option to set your Context tag search criteria. Note: User can select from the list of Context tags defined at application definition level.
Omit	Select this option to search for objects or resources where the omit Mobile flag has been enabled.
Redact Tag	Select this option to search for objects or recipients with the specified Redact Tag. The Redact tag pick list includes redact tags defined in the application definition file.

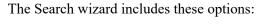
Using the Library Search Wizard

Use the search wizard to create search criteria. This wizard lets you create compound library searches — a search within the results of a search. You can also perform a negative search that excludes items that match the search criteria.

The Search wizard is available from the Library menu in Library manager or by clicking Search Wizard icon:

Click here to start the Search	Filter/Search	P
wizard.	Filter	
	रिहेने: 🌺 🔛 😥 🌖 🥥	
	Filter Search Wizard	

You can also right-click while working in Library manager and select the Search Wizard option.



🎘 Search Wizard	×
	ОК
What do you want to do?	Cancel
© Specify New or Additional Search Criteria	
C View or Edit Existing Search Criteria	
	li.

Option	Description
Specify New or Additional Search Criteria	Select this option to add criteria to the current search (which may already be composed of multiple criteria).
View or Edit Existing Search Criteria	Select this option to view or change the search criteria you have already defined for the current search.

After you select an option, the Search Criteria window appears:

Type (any) Version (all) Revision (last) Effective Date (any) Description (any) Locked (any) Secured (any) User ID (any) Status (any) Class (any) Project (any)	Name	
Version (all) Revision (last) Effective Date (any) Description	Type	(any)
Revision (last) Effective Date (any) Description (any) Locked (any) Secured (any) User ID (any) Mode (any) Status (any) Class (any) Project (any) Modified (any)	Version	
Effective Date (any) Description Locked (any) Secured (any) User ID (any) Mode (any) Status (any) Class (any) Project (any) Modified (any)	Revision	
Description (any) Locked (any) Secured (any) User ID (any) Mode (any) Status (any) Class (any) Project (any) Modified (any)	Effective Date	
Locked (any) Secured (any) User ID (any) Mode (any) Status (any) Class (any) Project (any) Modified (any)	Description	
Secured (any) User ID (any) Mode (any) Status (any) Class (any) Project (any) Modified (any)	Locked	(any)
User ID (any) Mode (any) Status (any) Class (any) Project (any) Modified (any)	Secured	
Mode (any) Status (any) Class (any) Project (any) Modified (any)	User ID	
Class (any) Project (any) Modified (any)	Mode	
Project (any) Modified (any)	Status	(any)
Modified (any)	Class	(any)
	Project	(any)
Search for references to	Modified	(any)
	Search for references to	
Гуре	Туре	

Note Beginning with 12.4, Context tag is added as one of the items in "search for references to" drop-down box.

This window shows the same filters you have used in the Filter/Search panel in Library manager. After entering the applicable parameters, click Next. The wizard then lets you select from these search result options:



These options tell Studio how the results of the new search should be applied to the current contents of the library grid (the current results).

Option	Description
Replace All Current Results with Matching Records	Choose this option to empty the library grid and refill it with whatever records from the library match the filter parameters you entered. All previous criteria is discarded. This is the default
Search Within Current Results Only	Choose this option to apply the filter parameters you specified only to the current contents of the grid. This is, essentially, a logical AND with any previous criteria.
Add Matching Records to Current Results	Choose this option to add any records in the library that match the filter parameters to what is already in the library grid. This is, essentially, a logical OR with any previous criteria.

Option	Description
Remove Matching Records from Current Results	Choose this option to remove any records from the current results that match the filter parameters from the current results. This is, essentially, the equivalent of a logical AND NOT with the previous criteria.

If you are viewing/editing existing criteria, you can scroll through the steps in your query which you have defined, seeing the Search Criteria and Search Option windows for each step by clicking the Next and Previous buttons.

You can save the entire query, including all of the steps, in the script file. This lets you define and save complex queries so you can reuse them.

Sorting the Contents of the Library Grid

You can sort the contents of the library grid by different column criteria. This option is available by selecting Library Sort Order under the Library menu in Library manager. The Library Sort Order window appears.

	Library Sort Order	×	1
Click here to have Studio remember the grid layout you specify. If you leave it unchecked, the grid layout you specify only applies to the current session only.	Unsorted Columns Class Description Locked Mode Modified Project Secured Status User	Sorted Columns Type (Desc) OK Name (Asc) Cancel Ver (Asc) Cancel Effective Date (Asc) Asc/Desc	
	<u>R</u> estore Defaults	Move Up	
	*	Move Down	
	Always use this sort for Librarie		

lick this button to toggle the ort order selection. Ascending rder (Asc) is the default sort rder.

For each sorted column, use the Asc/Desc (Ascending/Descending) button to toggle the sort order.

Note If you are using a relational database, such as Oracle, the records normally load in the specified sort order. Sorting only occurs after loading if you execute a multistep query containing an OR condition or if you are sorting on a field which must be translated after it is loaded, such as Mode or Status.

If you are using xBase, the sorting process occurs after the completed library list is loaded. The system displays items during the loading process in the standard library sort order - type, name, version, and revision.

Also keep in mind:

- The sorting process occurs after the completed library list is loaded. The display during the loading process appears in the standard library sort order — type, name, version, revision.
- If you enter several letters in quick succession, you can go to the library resource that contains those letters. If, however, you pause between keystrokes, the system takes you to the first library resource that begins with the first letter you entered.

• You can right-click in Library manager and select Stop Loading to make Studio stop loading library records. This can be useful if you enter a search or filter criteria in error and you do not want to continue the process.

If you select Stop Loading to stop the process, click Filter Now or Search to start over using the current criteria. Keep in mind, you can change criteria while the system is loading items and then click Filter Now or Search to have Studio immediately begin a new search with the new criteria.

- **Note** You do not have to wait for Studio to load all items before you can select an item and begin to work with it.
 - When searching for a resource name, you can use asterisks before and after the search criteria. For example, if you wanted to search for names which contain cg2, you can enter *cg2* in the Name field.

USING THE LBYPROC UTILITY

The LBYPROC utility processes library scripts. Library scripts are XML-based files that let you perform actions on a resource library. You can use these scripts for...

- Adding resources to a library
- Deleting resources from a library
- Extracting resources from a library (writing the contents to a disk file)
- Promoting resources from one library to another
- Searching a library for specific elements
- Producing a list of resources that match a designated set of filter values

The scripts are designed so a script can cause the indicated action to be performed on more than one resource. For example, a single Promote script can cause many resources to be promoted from one library to another and an Extract script can cause many resources in a library to be extracted from the library and written to disk.

Note For more information on the LBYPROC utility, see the Utilities Reference.

TROUBLESHOOTING

To help you resolve problems, this topic discusses how to turn on tracing and various error messages you may encounter.

TURNING ON TRACING

If you feel Studio is not retrieving the correct version/revision of a resource, or if you are experiencing other problems that seem to be related to the use of a library, you can use INI options to create a trace file.

You can then use the trace file to determine the date of the resource you requested and the effective date of the resource returned by Studio, as well as other libraryrelated information. To turn on tracing, specify these options:

```
< Debug_Switches >
Enable_Debug_Options= Yes
LbyLib = Yes
```

This table shows you where to place the options and the default file name.

For	Specify the options in	Default file name
Documaker (GenData)	FSIUSER.INI or FSISYS.INI	trace
Documaker Desktop	FSIUSER.INI or FSISYS.INI	trace
Docupresentment (IDS)	DAP.INI or a custom INI file	dprtrc.log

For Documaker, Documaker Desktop, and Docupresentment, you can specify the name of the trace file using this option:

```
< Data >
TraceFile =
```

Note Turning on the tracing causes a large amount of data to be written to the trace file. For optimal performance, only do this when you are testing or troubleshooting an implementation.

You may also want to retain the NAFILE.DAT and the POLFILE.DAT files. During retrieval, these files are retrieved from archive and are initially written to disk then later deleted. To keep these files on disk during retrieval from Documaker Desktop, include this option:

```
< ArcRet >
KeepFiles = Yes
```

To keep the NAFILE and POLFILE on disk during retrieval from Docupresentment (IDS), include this option:

< Attachments > Debug = Yes

Note For optimal performance, only turn on the KeepFiles or Debug option when you are testing or troubleshooting a system.

Checking the Code Page

You can tell the system to write the code page specification into the trace file produced by the system by adding this INI option:

```
< Debug_Switches >
CodePage = Yes
```

The default is No.

HANDLING ERROR MESSAGES

Here are some of the common error messages you may encounter:

ORA-00904

The following error message:

[Oracle][ODBC][Ora]ORA-00904: invalid column name

indicates one of the column names in the table is invalid. To determine which table is invalid, turn on LBYLIB tracing (See *Turning on Tracing* on page 654), recreate the problem, then examine the trace file and look for the ORA-00904 error message. The table referenced immediately before the ORA-00904 message is the one with the invalid column.

Note there are column names reserved by Oracle which cannot be used. To remap a column name use the ODBC_FieldConvert control group as described in a previous section. If you are setting up the tables for the first time, after re-mapping the column, you may need to remove the existing table so it can be recreated with the correct column names.

This message can also indicate you are trying to reference a column in the table that does not exist. Look closely at the trace file and compare the columns referenced in the SQL statement, such as SELECT, to the columns of the table as it is defined in the database.

ORA-01401

The following error message:

[Oracle][ODBC][Ora]ORA-01401: inserted value too large for column

indicates you are trying to insert a value that is too large for the column. To try to determine which table the problem is with, turn on LBYLIB tracing (See *Turning on Tracing* on page 654), recreate the problem, then examine the trace file and look for the ORA-01401 error message. The table referenced immediately before the ORA-01401 message should be the table that contains the column with the problem.

SQL0104N

The following DB2 ODBC error message:

42601 -104 [IBM][CLI Driver][DB2/NT] SQL0104N An unexpected token ")" was found following "on DAP110_LBYI_R1 (". Expected tokens may include: "<index_col_list>". SQLSTATE=42601 indicates that the DB2 driver attempted to create an index for the table. When using the DB2 ODBC driver, you should always set the following INI option to No.

```
< DBHandler:ODBC >
CreateIndex = No
```

Chapter 13

Using Dictionaries

Use the Dictionaries option to work with the fields, rule files, and extract files you will use in your implementation. This topic discusses the following topics:

- Working with the Extract Dictionary on page 658
- Sorting XDD Elements on page 660
- Importing XML Schemas into the XDD on page 662
- Importing XML Extract Files into the XDD on page 667
- Using Addressee Records on page 670
- Using the Common Fields Dictionary on page 680
- Importing CSV Files on page 681
- Importing TGA Files on page 682
- Adding a field to the Common Field list on page 683
- Example: Adding a Field to the Extract Dictionary on page 678

WORKING WITH THE EXTRACT DICTIONARY

The extract dictionary (also known as the SYMBOL.XDD) lets you store information about extract file records, as well as fields within records, in a database file format. Each record in this database contains all of the information that appears in the rule section for a field. Other information is also stored in the XDD. You can use the extract dictionary in both the field mapping process and the triggering process. This topic discusses the creation of and the use of the XDD in the mapping process.

Use of the XDD increases productivity and reliability when mapping since each field does not have to be mapped at a detailed level. Instead of entering information for all the fields in the Rule section for each field on a section, all that is required is that the rule XDD be specified for the field rule.

Typically, there is one (see note below) SYMBOL.XDD file per resource library. It is stored by default in the DEFLIB directory, under the specified workspace. The XDD is used with the rule section of the section at rules processing time. The link to the XDD database from the rule section of the section is the use of the XDD rule.

When the rules processor runs, items for the XDD are stored in cache. A thousand entries is the default cache number. There are INI options to change this number and to control the order of fields being removed (less frequent ore less recent) from cache. Use the extract dictionaries option to build the SYMBOL.XDD file.

The XDD file is laid out in a parent-child structure. The top level, parents, are individual records in the extract file. Fields within the record are children.

When adding a field to a section and the source of that field is the Extract Dictionary the rule assigned to the newly created field is the XDD rule if the following INI setting is present:

```
[ FixOptions ]
UseXDBRule = Yes
```

If the value for "UseXDBRule" is "No" then the rule and all of its parameters will be taken from the field's Extract Dictionary entry.

When a new workspace is created the value for "UseXDBRule" is set to "Yes" unless it was already set to "No" in any INI file that may have been imported.

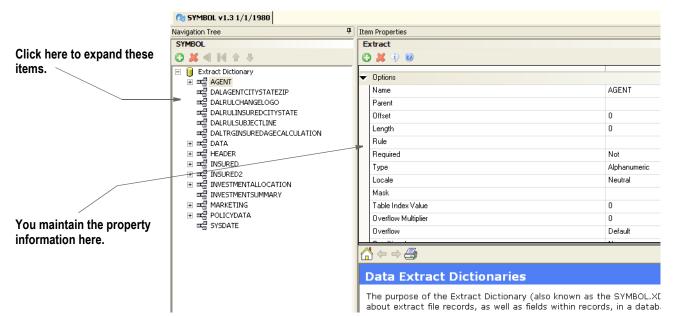
Note You can have a separate XDD file for each line of business. This is specified in the BDF file. At conversion time, the MASTER.DDT file, if one exists, and the XDB.DBF file, if one exists, automatically import into the SYMBOL.XDD file.

OPENING AN EXTRACT DICTIONARY

There are two ways to open an extract dictionary:

- Using the Manage, Dictionaries, Data Extract option
- By clicking on Data Extract in the Workspace tree

The main window that appears when you are managing an extract dictionary is shown here.



When you highlight an extract dictionary or the fields it contains, its property information appears so you can modify it.

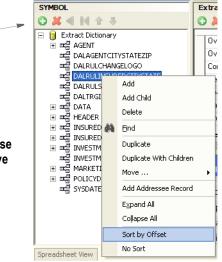
Property	Description
Name	Enter a unique name for this entry.
Parent	Parent record in the dictionary. Parent name appears in grey if you are viewing a child record.
Offset	Enter the offset of the data in the extract.
Length	Enter the length of the data in the extract.
Rule	List any optional rule to run on this data.
Туре	Specific to the format rule.
Locale	Used by AnytoAny rule for Numeric types
Table Index Value	Used in conjunction with the TblLkup rule.
Separator	Used by AnyToAny rule with Time and Date types
Required	Choose one of these options: Not, Host, Operator, Either.

Property	Description
Mask	Include the formatting mask for the data returned by the rule.
Table Index Value	Used with the TableLookUp rule.
Overflow Multiplier	Specifies the overflow multiplier for this entry.
Overflow	Specifies the overflow, if any, for this entry.
Conditional	Set to Yes if this entry can be used as a trigger.
Description	This field is provided for user notes and is not used at runtime.
Search Mask is an XPath	Set to Yes if the search mask is an XPath. Otherwise, choose No.
Data	Use this field for search masks and rule parameters.
Unique Identifier	Indicates a unique ID for this record.

SORTING XDD ELEMENTS

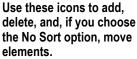
You can view XDD elements by name, by offset, or in the order in which they were manually entered or imported (No Sort). The No Sort option gives you a view which can help you compare elements when you are trying to match the XDD to a sample import XML file.

To change the sort order when working in the XDD, right-click and choose the appropriate option. Studio defaults to sorting by name so the following example omits the Sort by Name option and only shows the Sort by Offset and No Sort options:



Note During an XML import, the No Sort option is analogous to the order in which the XML presented the fields. For the No Sort option, it is the underlying import that determines the order of the created fields within the XDD.

Choose the option you want and Studio re-orders the elements.



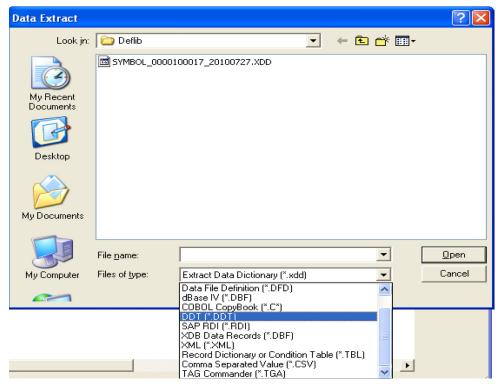
You can use the Add and Delete icons to enter or remove elements. When you choose the No Sort option, you can use the Move icons to re-arrange elements within the XDD navigation view.

IMPORTING CSV FILES

Follow these steps to import a comma separated value file:

- 1. Choose Manage, Dictionaries, Common Fields.
- 2. Choose File, Import (not Import Workspace files). On the Open File window, click on Data Extract in the Open file dialog box. Click Browse.

🚰 Open file									
Editor Filter Preview	1						195	1 of 1	<u>ο</u> κ
	Name	Туре	Ver	Rev	Effective Date	Locked	User	Secured	
-3 Application	SYMBOL	XDD	00001	00017	7/27/2010	V MSS	MSS		Cancel
Sefinition									Browse
Content									Open as
Forms									read-only
- Dictionaries									New
🔯 Data Extract									
🔣 Common Fields									
🖸 Lookups									
Definition File									



In the Data Extract window, change the Files of Type field to CSV, as shown here:

Browse for the file you want to open and then click Ok.

IMPORTING XML SCHEMAS INTO THE XDD

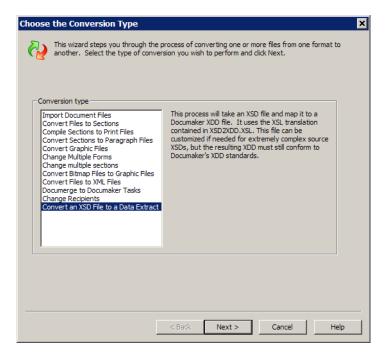
You can import an XML schema (XSD) into an extract data dictionary (XDD). From the schema, the XDD recognizes parent and children elements and also inherits any attributes as children.

Importing an XML schema to populate the XDD provides these benefits:

- Lets you build the XDD before you have sample XML input data
- Helps reduce errors when creating the XDD
- Ensures compatibility with the input file structure
- Makes it easier to synchronize changes to the input file schema
- Helps reduce mapping errors as XPaths are easily derived from XML schema

To import an XML schema, follow these steps:

- 1. Choose the Tools, Conversion option. The Chose the Conversion Type window appears.
- 2. Select the Convert an XSD File to a Data Extract option.



The Convert XSD to XDD window appears.

Convert XSD to XI	X
🛛 🏹 conversion, si	your source XSD and your target XDD. To create a new XDD file from the mply input a name for the XDD. To import into an existing XDD, push the file n and select an existing XDD.
Source XSD File:	
Target XDD File:	
	Generate DocumakerXDD.XSD
conversions. If yo XSL file below. Plea	is a standard XSL translation file that can handle most XSD to XDD u wish to provide some custom processing of your XSD, you may override the ase note, Documaker Data Extract Manager will not allow custom fields that XDD format. You can find a copy of the Documaker XDD XSD in the ctory.
Use Custom XSL	Translation
XSL Translation File	
	< Back Next > Cancel Help

3. Use the Browse button to select the source XSD file. Enter the name you want to assign to the target XDD or click Browse to select an XDD file. Studio lets you use a custom XSL translation file if necessary. Click Next when you finish specifying the files to use.

The Convert Files and Finish window appears.

3			
Check files into	library (recommended)		
Effective date:			
Description:	Converted XSD file <formatdataset>.</formatdataset>		
Mode:		<u> </u>	
Status:		–	
Class:		-	
Project:		•	

4. By default, Studio checks the new XDD into the library for you. You can change this option if necessary. On this window you can also make or change the entries in the following fields:

Field	Description
Effective Date	Studio shows you the current date as a default. You can enter another date if necessary.
Description	Change the default description if necessary.
Mode	Use this field to assign a mode to the resource as it is checked in. For instance, you can use the Mode field to specify where in the development cycle the resource is.
Status	Use this field to assign a status to the resource as it is checked in. For instance, you could use the Status field to indicate whether a resource has passed or failed testing.
Class	Use this field to assign a class to the resource as it is checked in. For instance, you could use the Class field to indicate the market in which a resource was applicable.
Project	Use this field to assign a project ID to the resource as it is checked in. For instance, you could use the Project field to indicate which project a resource was associated with.

You define modes, statuses, classes, and projects using the Manage, Settings options. For instance, you could set up modes to denote milestones in the development process such as Development, Testing, and Production. For more information, see *Defining Mode, Status, Class, and Project Options* on page 646.

5. Click Finish to convert the XML schema file.

Keep in mind...

- Studio imports all XDD fields as strings
- Studio assigns the AnyToAny rule to these fields in the XDD
- Documaker does not validate the XSD file during processing

Customizing Your Conversion

When converting an XSD file, the system will create the file template.xls in your \DLL directory. This file can be used to build a custom translation if needed.

This can be done in one of the following two ways.

Method 1:

1. Select Generate Documaker XDD.XSD file on the Convert XSD to XDD dialog.

	ir source XSD and your target XDD ne for the XDD. To import into an e XDD.		
XSD File:			
XDD File:			
	Generate Documaker	KDD.XSD	
	- ded VCI to address fils that are		VDD K
provide some cus aker Data Extract	andard XSL translation file that car tom processing of your XSD, you n Manager will not allow custom field aker XDD XSD in the DMStudio.E nslation	ay override the XSL is that are not part of	file below. Please note,
provide some cus aker Data Extract copy of the Docum	tom processing of your XSD, you n Manager will not allow custom field aker XDD XSD in the DMStudio.E	ay override the . Is that are not pa	XSL

The DocumakerXDD.XSD file is created in your \DLL directory

- 2. Click on the ellipses in the Select XSD file field. Browse and select the DocumakerXDD.XSD file you generated.
- 3. Select a Target XDD file.
- 4. You can create a new "dummy test" XDD file when testing the conversion, by entering a unique value in the Target XDD field. While testing, it is best to avoid using the actual name of your XDD file of your Target XDD field.

The template.xsl file is created in your \DLL directory. Modify this file as needed.

- 5. Open Conversion Manager.
- 6. Select Convert an XSD File to a Data Extract.
- 7. Browse and select your XSD file and Target XDD file.
- 8. Check Use Custom XSL Translation.
- Browse and select your modified XSL file. Click Next. The conversion is complete now.

Method 2:

1. Browse and select your XSD file.

	your source XSD and your t name for the XDD. To impo ting XDD.			
Source XSD File:	I			111
Target XDD File:				
	, Generate D	ocumakerXDD.XSD		
wish to provide some Documaker Data Ext ind a copy of the Do	a standard XSL translation f custom processing of your X ract Manager will not allow o cumaker XDD XSD in the D Translation	(SD, you may override t sustom fields that are no	he XSL file below. Ple t part of the XDD form	ase note.
wish to provide some Documaker Data Ed find a copy of the Do Use Custom XSL	custom processing of your) ract Manager will not allow o cumaker XDD XSD in the D	(SD, you may override t sustom fields that are no	he XSL file below. Ple t part of the XDD form	ase note.
wish to provide some Documaker Data Ext	custom processing of your) ract Manager will not allow o cumaker XDD XSD in the D	(SD, you may override t sustom fields that are no	he XSL file below. Ple t part of the XDD form	ase note.

- 2. Select a Target XDD file.
- 3. You can create a new "dummy test" XDD file when testing the conversion, by entering a unique value in the Target XDD field. While testing, it is best to avoid using the actual name of your XDD file of your Target XDD field.

The template.xsl file is created in your \DLL directory. Modify this file as needed.

- 4. Open Conversion Manager.
- 5. Select Convert an XSD File to a Data Extract.
- 6. Browse and select your XSD file and Target XDD file.
- 7. Check Use Custom XSL Translation.
- 8. Browse and select your modified XSL file. Click Next.

The conversion is complete.

IMPORTING XML EXTRACT FILES INTO THE XDD

If you are using an XML extract files, there are two main ways to represent data. The first minimizes the use of attributes in favor of explicit nodes. Here's an example.

```
< Transaction >
	<Customer>
	< Name >Your Name Here</Name>
	<Phone>111-222-3333</Phone>
	</Customer>
</Transaction
```

The second minimizes the number of nodes by using attributes. Here's the same data reformatted to use attributes:

```
< Transaction >
<Customer Name="Your Name Here" Phone="111-222-3333" </Customer>
</Transaction
```

Depending upon how your XML extract file is defined, you may need to modify the ImportXMLAttributes option.

```
< Symbol >
ImportXMLAttributes = Yes
Option Description
```

-	
ImportXMLAttributes	Enter Yes if you want Studio to import XML attributes into your extract dictionary (XDD) and automatically generate the proper mappings. The default is No.
	Use the default if your XML files minimize the use of attributes in favor of explicit nodes.

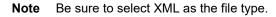
Note You can check this option using the Manage, System, Settings option and then selecting Options by Group.

Importing XML Attributes

If your XML extract file is defined to use attributes when representing data, make sure the ImportXMLAttributes option is set to Yes. Once set, follow these steps to import XML attributes and have the node attributes become fields:

- 1. Open the Extract Dictionary and select the File, Import option. The Open File window appears.
- 2. Click Browse and load the XML file you want to import into the XDD file.

Data Extract								D 🖸	? ×
Look in:	🚞 DEFLib	 	 	•	÷	<u>e</u> c	* 🎟 🔻		
My Recent Documents									
Desktop My Documents									
My Computer									
- S	File name:						-	Open	_
My Network Places	Files of type:	(ML (*.XI Open a	only			ŀ	<u>-</u>	Cance	el



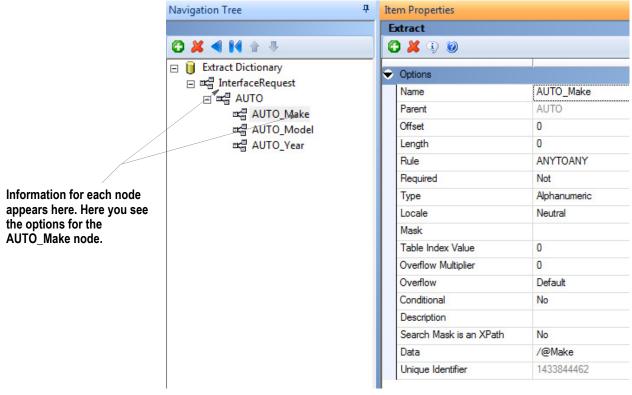
During the import, if a field matches an existing XDD field, Studio lets you decide to add, replace, or skip that field. If you add the field, you will have fields in the XDD which have duplicate names. You can later decide which of these fields to discard.

Once Studio imports the XML file, you return to the XDD file navigation tree, where you will see a new tag in the XDD file called *InterfaceRequest*. This tag represents the contents of the XML file you just imported.

For instance, here is an example which assumes you have these nodes, each with an attribute assigned:

- AUTO_Make
- AUTO Model
- AUTO_Year

These nodes are listed under a parent node called AUTO. All three attributes nodes have truncated names so the new attribute name can be added to it. In addition, the attribute name is prefixed with an at sign (@) and is placed in the Data name section. Here is an example:



Here is an example of the XML:

<InterfaceRequest>

```
<AUTO Make="Toyota" Model="Solara" Year="2001">01</AUTO>
<AUTO Make="Ford" Model="Taurus" Year="2002">02</AUTO>
```

<AUTO Make="Chevrolet" Model="Silverado" Year="2004">03</AUTO>

```
<AUTO Make="Dodge" Model="Durango" Year="2005">04</AUTO>
```

```
</InterfaceRequest>
```

USING ADDRESSEE RECORDS

Addressee records in the extract dictionary support class recipients and addresseebased processing, for use with Documaker and Documaker Interactive.

To support addressee processing, the system stores multiple sets of addressee information for a single transaction or document set. You can then use this information to distribute documents to various addressees.

Note See also the Documaker Administration Guide for information on printing addressee information and using addressee information in recipient batch files.

In a Documaker environment, this record data is mapped the same way other data elements are mapped to the data dictionary. In an iDocumaker environment, the data can come from end user edits.

Adding an Addressee Record

To enable the use of Addressee records, first create the Extract Data Dictionary (XDD) entry that will be associated with the recipient that uses the Address Map.

To do this, check the XDD out of the workspace, then click Add to add a parent record for the addressees, such as *Addressee* or *Lienholder*. You can also select an existing XDD entry that has no defined children.

Right-click and select the Add Addressee Record option to flood the data schema for Addressees into the field. You can also select this option from the Action menu.

MB	OL	
2		1
-	🛋 🗄 Ado	fressee
	⊐x⊡	ADDRESS1
		ADDRESS2
	≍ 2	CITY
		CODE
	≍ 2	COUNTRY
		EMAIL
	≍ 2	ENCLOSURES
	≍	FAX
		NAME
	-	PHONE
	≍ 2	POSTALCODE
	⊐x⊡	PREFERRED
	≍ 2	PROCESSED
	-	ROLE
	□ × [⊡]	SELECTED
	- 1	SIGNINGROLE
	□ × <mark>□</mark>	STATE
	⊐x⊡	TYPE
	⊐x⊡	UNIQUE_ID
)	· · · · · · · · · · · · · · · · · · ·

The AnyToAny rule is used on all addressee records. You can modify the rule on applicable addressee records as needed. You do not have to map every field added to the Addressee record and you can delete fields you are not using.

Note If you add children to this record, those entries are not stored as information linked to addressees.

Adding a Transaction Record

To enable the use of Transaction records, first create the Extract Data Dictionary (XDD) entry that will be associated with the recipient that uses the Address Map. To do this, check the XDD out of the workspace, then click Add to add a parent record for the addressees, such as *Addressee or Lienholder*. You can also select an existing XDD entry that has no defined children.

Right-click and select the Add Transaction Record option to flood the data schema for Transaction into the field. You can also select this option from the Action menu.

SYMBOL
C 其 🗐 🕅 🏦 🤴
🖃 🏮 Extract Dictionary
🖃 🖙 Transaction
insadd1
insadd2
inscity
¤≓ INSFNAME
INSSTATE
INSZIP
¤≮ <mark>⊜</mark> KEY1
¤≭ <mark>≣</mark> KEY2
¤ ≓ KEYID
Interest In
¤∰ POL_NUM
¤∰ POLOFFSET
📲 SENTTOMANUALBATCH

Adding the Address Map in the BDF

The Address Map field under the Recipient entry in the Business Definition (BDF) stores the Extract Data Dictionary member that defines the mapping for this recipient's addressee records. Use this field in situations where you want to store multiple sets of address information for a single class of recipients on a single transaction.

After adding the addressee record to the Data Dictionary, add the Address Map field to the selected recipient in the Definition file. To do this, follow these steps:

- 1. Check out the BDF file.
- 2. Click the Ellipsis button in the Address Map field to access the Parent Name entry in the XDD for this BDF recipient. The Unique Identifier number that appears with the Parent Record name comes from the Extract Dictionary. This ID ensures the selection of the correct parent record if there are duplicate entries in the XDD.

You can also manually type the name of the parent record into the Address Map entry, without adding any Unique ID. Remember that any XDD record selected for the Address Map should contain the addressee record.

Recipients			1					
Recipient		Recipient Options						
		Recipient Options						
		Name	Recipient					
		Code	001					
		Description	Primary Copy					
		Address Map	Addressee/#1258143658					

Note If you select the XDD Parent Name record using the Search functionality, then any modification of the Unique ID portion of the Address Map can cause run-time errors.

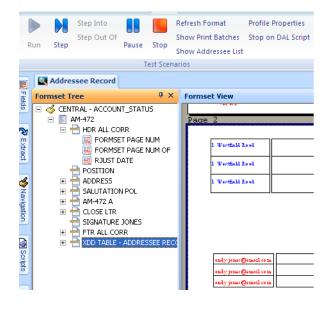
Testing an address map

You can test your Address Map in Studio. To do this, simply create a test profile and step through your test.

Note You can choose the Test, Show Print Batches option in Studio's Test manager to verify the batch records after they have been written.

You can automatically map addressee records using the RunTriggers rule in your AFGJOB.JDT file. If you map addressee records this way, the print stream for that recipient includes a copy for each addressee member.

If using the RunTriggers rule, then under the Test menu, there is a new option to Show Addressee List. When stepping through Test, you must have executed the RunTriggers rule before the Addressee List will show. If not using RunTriggers, you may still view addresses in Test without the Addressee List.



ADDING RECORDS TO THE XDD

If you right-click at the highest level (Extract Dictionary), either the Add or Add Child option adds a parent record with the name of NewEntry. Records are organized to match your XML data schema, with parent records containing children, or related data elements. Parent and child records can be used in mapping and triggering.

Click the plus sign icon (+) on the toolbar to add an entry at the parent level.

Navigation Tree		7 Item Proper
SYMBOL		
🖸 💥 🛋 🕪 🛧 🤄	ķ.	
🖃 📔 Extract Dictionar		
		Add
Interest and the second secon		Add Child
🖙 🔤 DALRULCHAI		Delete
		Delete
व्य∰ DALRULSUB: व्य∰ DALTRGINSU	A	Eind
		Duplicate
		Duplicate With Children
🛨 🛋 INSURED2		Move
🛨 🛋 INVESTMENT		Add Addressee Record
		Even et All
🗄 🛋 MARKETING		Expand All
		Coļlapse All
¤t∰ SYSDATE		Sort by Offset
		No Sort

A field name of New Entry appears any time you add a parent record. Click in the Name field to enter a new parent name.

To add a child record, right-click a parent record and add the child record under it:

Navigation Tree		4		m Properties		
SYMBOL				Extract		
C 🗶 🔍 🕪	1	+) 🗶 🕘 🥘		
⊡ 1 Extract D I I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		ary	ŀ	Offset		
ist <mark>a</mark> DALA Ista DALR		Add		Length Rule		
ada dal R		Add Child		Required		
I I I I I I I I I I I I I I I I I I I		Delete		Туре		
🕀 🖙 🗄 DATA	М	Eind		Locale		
E Insul		Duplicate		Mask		
🕀 🛋 INSU		Duplicate With Children		Table Index Va		
		Move	×) 🖓 🔿 🚭		
		Add Addressee Record)ata Ext		
E I I I I I I I I I I I I I I I I I I I		Expand All		The purpose		
aka 5150 aka NewE		Coļlapse All		store inform:		
		Sort by Offset		ormat. Each section for a		
		No Sort		can be used		
				wo will limit i		

Data Extract Dictionary (XDD) Versus Section (FAP) Field Mapping

The following graphic highlights the differences in parameters available when you map in an XDD file versus a FAP file.

Data Extract Dictionary (XDD)	Section Manager (FAP)
Name (same as the source name)	Rule
Parent	Destination Offset
Offset (same as the source offset)	Source Name (same as the Name)
Length	Source Offset (same as the Offset)
Rule	File (same as the Table Index Value)
Required (Either, Host, Not, Operation)	Length
Туре	Record
Locale (when Type is Alphanumeric or Numeric)	Required (Default Either, Host, Not, Operation)
Format (when Type is Date or Time format)	Overflow Multiplier
Separator (when Type is Date or Time format)	Overflow
Year Size (when Type is Date format)	Mask
Mask	Data
Table Index Value (same as File)	
Overflow Multiplier	
Overflow	
Conditional	
Description	
Search Mask in an xPath	
Data	

ata Extract Dictionary (XDD)	Section Manager (FAP)
	

Figure 1: Field differences between the XDD and Section field property use

Mapping in either location will usually yield the same results. Mapping in the XDD means you are working a central location to update field attributes, change data mapping, and adding new parameters to your fields. You also can use the DAL wizard to create triggers if the XDD is configured.

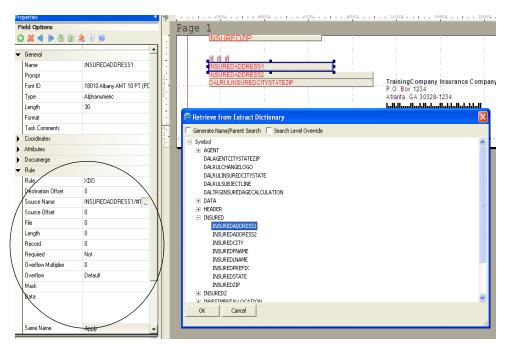
You can use these rules to communicate between the Data Extract Dictionary and a field on a section.

XDD (the legacy version of this rule was called XDB). This rule tells the system • to look in the Data Extract Dictionary for mapping information for this field. It can only be used as a field level rule on a section.

• AnyToAny. This is the default rule in the XDD. It lets you create the data element once in the Data Extract Dictionary and format the data differently when the data is mapped to the field on the FAP file. It can be used as a field level rule on a section or as a rule in the Data Extract Dictionary.

To use the XDD rule, add the field to your section (FAP). In the Rule properties select XDD. The following screen shows how to add these fields. If you add the field to the section, then select the XDD rule, you then click the Source Name field.

The Source Name field launches a lookup pane of the XDD. Click the Parent/Child record link you are adding, and click Ok.



Above you can see the INSUREDADDRESS1 child field. In the XDD, the entries for this field look like this:

The rest of the field properties are stored with the record in the XDD and do not have to be entered here.

(MBOL		
	Extract	
) 🗶 🛋 📢 🏦 🐺	C 🗶 🕄 🥹	
Image: Second state of the system of the	Options Name Parent Offset Length Rule Required Type Locale Mask Table Index Value Overflow Multiplier Overflow Conditional Description Search Mask is an XPath Data	INSUREDADDRESS1 INSURED 0 0 30 MOVE_IT Not Alphanumeric Neutral 0 0 0 Default No Yes INSUREDADDRESS1
	Unique Identifier	1275144290

Using the AnyToAny rule with section field settings

The following examples show the difference between using a rule in the XDD vs. using the AnyToAny rule in the XDD and section.

In the figure below, you see the settings in the XDD if you are using the DateFmt rule, which uses Mask options to format a date string in the extract file:

Section	Entries	Data Extract Dictionary	Entries	
Rule	XDD	Name	AUTOPAYDATE	
Destination Offset	0	Parent	POLICYDATA	
Source Name	AUTOPAYDATE/#uniqueid	Offset	0	
Source Offset	0	Length	8	
File	0	Rule	DATEFMT	
Length	0	Required	Not Alphanumeric Neutral na	
Record	0	Туре		
Required	Not	Locale		
Overflow Multiplier	0	Format		
Overflow	Default	Separator	na	
Mask		Year Size	na	
Data		Mask	11	
		Table Index Value	0	

Section	Entries	Data Extract Dictionary	Entries
		Overflow Multiplier	0
		Overflow	Default
		Conditional	No
		Description	
		Search Mask in an xPath	Yes
		Data	AUTOPAYDATE
		Unique Identifier	uniqueid

Figure 2: DateFmt rule entries when using XDD on the section

If you use the AnyToAny rule instead, the formatting is taken from the General fields for the field properties for the section.

Section	Entries	Data Extract Dictionary	Entries
General Area	Selected Entries	Name	AUTOPAYDATE
Туре	Date Format	Parent	POLICYDATA
Length	18	Offset	0
Format	Month D Yr	Length	8
Separator	Default	Rule	AnyToAny
Year Size	4	Required	Not
Letter Case	Default	Туре	Date Format
Rule Area		Format	MMDDYY
Rule	XDD	Locale	Neutral
Destination Offset	0	Separator	
Source Name	AUTOPAYDATE/#uniqueid	Year Size	4
Source Offset	0	Mask	
File	0	Table Index Value	0
Length	0	Overflow Multiplier	0
Record	0	Overflow	Default
Required	Not	Conditional	No
Overflow Multiplier	0	Description	
Overflow	Default	Search Mask in an xPath	Yes
MASK		Data	AUTOPAYDATE

Section	Entries	Data Extract Dictionary	Entries
Data		Unique Identifier	uniqueid

Figure 3: AnyToAny DateFmt rule in XDD and section

Example: Adding a Field to the Extract Dictionary

To add fields, you have to know how the data file is structured. This information can usually be found in a requirements document, or an implementation document, that outlines the structure of the XML input file. (See *Example Form* on page 25).

We will use the data mapping information that was given to us by the implementation team.

Step A:Open the Symbol.XDD extract dictionary from the Workspace tree, under Dictionaries.

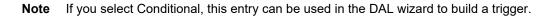
• We first enter the Parent record of our fields. For example, we want to add the Treatment question and answer fields. We right-click, Add to add a Parent record. Name it TREATMENT. For Search Mask is an xPath we select Yes. Then enter the xPath in the Data field:

!/TRAININGCOMPANY/DATA/TREATMENT

• Add a Child record to this Parent record for each element we need to map. For example, Add Child, name it DETAILS_QUESTION. We see that the TREATMENT parent record appears, and we enter the rule we want to use, as well as any masks needed for that rule, then length of the data. The entry would look like this:

Navigation Tree 4	Item Properties	
SYMBOL	Extract	
C) 💢 🛋 📢 🛧 🖶	C 🗶 🤋 🥘	
□ [] Extract Dictionary	♥ Options	
	Name	DETAIL_QUESTION
	Parent	TREATMENT
	Offset	0
백급 DALRULSUBJECTLINE 패급 DALTRGINSUREDAGECALCULATION	Length	14
	Rule	MOVE_IT
	Required	Not
ਦ ¤⊴ INSURED स≓ INSURED2	Туре	Alphanumeric
	Locale	Neutral
	Mask	
	Table Index Value	0
	Overflow Multiplier	1
	Overflow	Section
detail_ANSWER	Conditional	No
	Description	
¤∰ RECORD	Search Mask is an XPath	Yes
	Data	[****]/DETAIL_QUESTION
	Unique Identifier	1275144331

The entry in the Data field above is relevant to Overflow and will be reviewed in the Overflow appendix.



We would continue adding our fields based on the data mapping provided to us, and building our records in the Parent/Child structure of our XML extract file.

• Save and close the XDD.

Step B:Enter the XDD rule on the Section fields

- Open your sections in the Section manager. For example, open Medbody1, and click the Question field.
- You will see the field properties pane. In the Rule portion, select XDD in the Rule field.
- In the Source Name field, search the XDD that opens for the TREATMENT parent record, and drill down to the DETAILS_QUESTION child record. Click OK to select it.
- Continue mapping other sections and fields. Close and Save your sections, and Check In to put them back in the library:

) 🗶 ٵ 🕨 🖉	s 🧶 🤑 🥝	Page ouest		
Prompt	_	00231	ION	
Font ID	11010 Times-Roman 10 PT (F			
Туре	Alphanumeric			
Length	14			
Format				
Task Comments				
Coordinates				
Attributes				
Documerge				
Rule				
Rule	XDD 👻			
Destination Offset	0			
Source Name	DETAIL_QUESTION/#12751			
Source Offset	0			
File	0			
Length	0			
Record	0			
Required	Not			
Overflow Multiplier	0			
Overflow	Default			
Mask				
Data				
Same Name	Apply			
Entry				
Link				

Note

Any examples in this guide usually demonstrate one possible configuration for a given process. In Documaker there are different ways to achieve the same results, and legacy methods are supported in current versions of Documaker Studio. If your implementation is set up differently than shown in documentation, but is working, do not alter your current configuration.

USING THE COMMON FIELDS DICTIONARY

The Common Fields Dictionary provides an easy way to store common field information to make setting up and creating sections and paragraphs faster and more consistent. This file contains a record for each unique field name. Each record contains information such as...

- Field name
- Field length
- Field type
- Font ID

Adding all known fields to the Common Field Dictionary lessens the need to create fields when building sections, either in Studio or in the Documaker Add-In for Word.

When naming fields, avoid using cryptic abbreviations. When possible, use easily identifiable, field names that others who work with Studio can quickly recognize, This makes selecting the correct field in Studio or the Documaker Add-In for Word easier.

You can enter field information directly into Studio's Common Field Dictionary or by use the File, Import option to import various files, such as comma separated value (CSV) or Tagcommander (TGA) files.

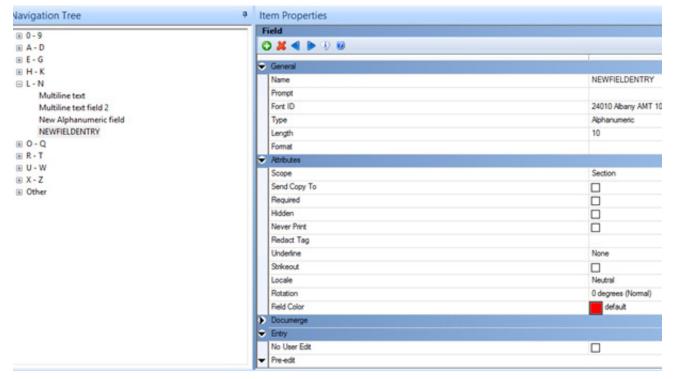
Note Remember, the Common Fields list is helpful for form composition. It also lets you store General field information, which can be used in the AnyToAny rule. However, the FDB file itself, which is the Common Field list, does not contain rule information, and thus *is not* used in Documaker Server processing at run time.

WORKING WITH THE COMMON FIELDS DICTIONARY

Click Common Fields in the tree to work in a centralized database where the system stores field attributes for the master resource library. Here you can edit and manage common field information.

Storing common field information can make setting up and creating FAP files faster and more consistent.

Here is an example of the window that appears when you are working with fields:

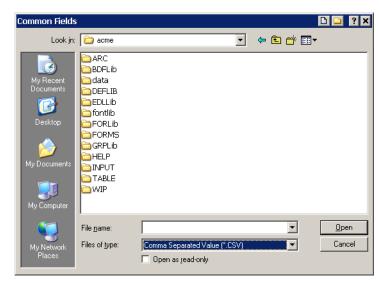


Use the Navigation Tree to locate the field you want to work with. When you highlight a field, its property information appears so you can modify it.

IMPORTING CSV FILES

Follow these steps to import a comma separated value file:

- 1. Choose Manage, Dictionaries, Common Fields.
- 2. Choose File, Import (not Import Workspace files). On the Open File window, double click Fields (you can double click on Fields or just click on it once; either one will cause the Fields dialog to display)
- 3. In the Field window, change the Files of Type field to CSV, as shown here:

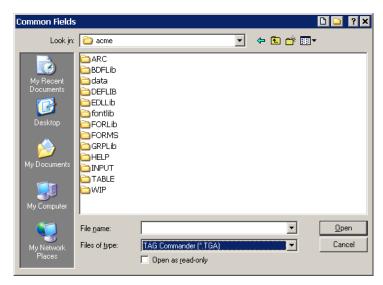


4. Browse for the file you want to import and then click Ok.

IMPORTING TGA FILES

Follow these steps to import a Tagcommander (TGA) file:

- 1. Choose Manage, Dictionaries, Common Fields.
- 2. Choose File, Import (not Import Workspace files). On the Open File window, double click Fields.
- 3. In the Field window, change the Files of Type field to TGA, as shown here:



4. Browse for the file you want to import and then click Ok.

ADDING A FIELD TO THE COMMON FIELD LIST

When you are working in the Common Field database, you can add a new field to the list by either using the floating menu in the work area, or by the Action menu list:

I	=ile	Edit	View	Acti	ons Manage	Window	He	lp	
1		2 💕	BI 4	0	Add		G	n 🔊 🥹 🔍 🖸 💥 🗸	
80 D.M		DEFLI	(B\FDI	¥ ~	Remove Revert	Add		to the database	4
5	IF	0-9			Import From >				
		A - D			Pack Databas	e	6) 🗶 🛞 🥹	
С П		E - G H - K			Verify Databa	se	-	General	
24		⊟ L-N			Validate			Name	NEWFIELDENTRY
			EWFIE	.DEN	RY		ι.	Prompt	
3	111	E 0-Q R-T					ι.	Font ID	0911 PDF417 240 DPI 9x12 - 2.16 Pt (PCL AFP XER PS 0th)
- Include		U - W					ι.	Туре	Alphanumeric
No blouisedian		X - Z					ι.	Length	5
í							ι.	Format	
5							-	Attributes	
2								Scope	Section
wint							ι.	Send Copy To	
-							ι.	Required	
D							ι.	Hidden	
1020							L	Never Print	
when							ι.	Underline	None
-							ι.	Strikeout	
1							L	Locale	Neutral
	Le.	preadshe					-		
	112	preadsne	ser viev	v					

The new field has the name of NEWFIELDENTRY until you change it. Information stored in the field can be any defaults you want to set for that field. When a field is placed on a Section, you can change any of the initial properties of that field.

UPDATING THE COMMON FIELD LIST

You can enter fields into the Common Field list one at a time, as seen above, or via mass import (please see *Importing CSV Files* on page 681, and *Importing TGA Files* on page 682).

You can also update the dictionary after entering properties for a field in a section, then clicking the Update Field Dictionary icon to copy the information into the Common Fields Dictionary.

roperties			Fp _	2400
Field Options				Page 1
🖸 🗶 🖪 🕨 💆) 👔 🔔 🤄 🥘			OUESTION
 General 	Update Field Dictionary			
Name	QUESTION			
Prompt				
Font ID	11010 Times-Roman 10 PT (F			
Туре	Alphanumeric			
Length	14			
Format				
Task Comments				

If you click the update icon, and you have full access (User module) to the Common Fields Dictionary, your entry will override any entry by the same name in the dictionary. You can elect to give most users view only access to the dictionary which will prevent them from overwriting an existing entry.

When working in a section, if you want to add a field from the Common Field database, use the Load From Field Dictionary icon on the toolbar:

Properties		д	Fp	2400
Field Options				Page 1
🔁 💥 ┥ 🕨 🔠 🙋	1 🕭 🦻 🥹			OUESTION
➡ General	Load From Field Dictionary	-		
Name	QUESTION			
Prompt				
Font ID	11010 Times-Roman 10 P	F (F		
Туре	Alphanumeric			
Length	14			
Format				
Task Comments				
 Constituents 				

You can also browse for a field in the Field Dictionary by clicking in the Name field on the General field properties, then searching for the field:

Properties		Р Fp
Field Options	👔 🔔 🦻 🕲	Page 1
🗸 General		
Name	QUESTION	
Prompt		
Font ID	11010 Times-Roman	1 ¹⁰ 🌁 Select Field From Field Dic 💶 🗖 🔀
Туре	Alphanumeric	
Length	14	ОК
Format		
Task Comments		— Н-К
Coordinates		- L - N
Attributes		NEWFIELDENTRY
Documerge		
Rule		
Let :	LIDD	

Chapter 14

Creating Tables

Click Tables to attach table data to a field so it is available during data entry. This chapter includes these topics:

- Overview on page 686
- Transaction File DFD on page 689
- *Recipient Batch File DFD* on page 689
- Application Index File DFD on page 690
- Field Section on page 691
- *Key Section* on page 692

OVERVIEW

Tables make the entry process quicker and more efficient for the end user. Users choose from data in a table rather than keying in information. This is especially useful, for example, when entering lengthy codes. Tables reduce data entry errors and increase speed.

The data for a table can either be manually entered or merged from a client data source. A table file can contain many tables. Each table contains many entries. The entries in the tables are the choices available to the data entry user. Each table entry contains two parts: a key and a description. A key might be a short abbreviation, such as GA, and the description provides a longer and more complete explanation of the key, such as Georgia.

Table files reside in the selected master resource library (typically in the Table directory). A table file (DBF) can contain multiple tables identified by unique names. You can create a new table file, or you can open an existing table file to correspond with your section and its fields. After you open or create a file, you can add or edit tables in the file to meet the particular requirements of the section.

Documaker uses a variety of database files as input and output for various software modules. For example, the GenTrn program outputs a transaction file that serves as an input to the GenData program. The transaction file is stored as a database file, and as such, the transaction file has a pre-defined record structure. This record structure specifies the length, type, and order of the fields that contain the information in the file.

The software modules that use these database files must have access to the record structure to write data in the proper format and to read that data correctly. This is true for all database files. The purpose of DFD (data format definition or just definition) files is to provide record structure information to the software modules.

DFD (Data Format Definition) files contain information defining the structure of the data contained within a database file. Many common system files are stored in database format. For example, in addition to the transaction file already discussed, the new transaction, application index, recipient batch, WIP (Work In Progress), help, and table files are all stored in database format. These system database files can be in a variety of formats, including xBase, DB/2, ODBC, and standard sequential files (such as flat ASCII files). The record structure defined in the DFD files remains independent, regardless of the type of database being used — although there are occasionally exceptions for some database specific records.

Not all of these database files require an external DFD file. In some cases, the file's record structure is coded directly into the software modules that access the file. There are currently no external DFD files for Documaker help and table database files for this reason. However, external DFD files are used with other system database files, in many cases, because DFD files allow for easier modification of the database file's record structure, without having to modify the software modules directly.

DFD Files

There are several system database files, meaning that these files are written and read via calls to the DBLIB data base software library. As already mentioned, these database files can be in several formats, including xBase, DB/2, and flat ASCII. Also, not all system database files require a corresponding DFD file because their record structure is coded in the software modules that access them.

The following are Documaker database files:

- Transaction files
- New transaction files
- Recipient batch files
- Manual batch files
- Application index files
- WIP files
- Help files
- Table files

Of the files listed above, only five require an external DFD file. The use of one other DFD file is optional.

File	External DFD File
Transaction files	TRNDFDFL.DFD
New transaction files	TRNDFDFL.DFD
Recipient batch files	RCBDFDFL.DFD
Manual batch files	RCBDFDFL.DFD
Application index files	APPIDX.DFD
WIP files	WIP.DFD (optional – see below)

The WIP file may optionally have an external DFD. If there is no external WIP DFD file, the internal record structure as coded in the program is used. The help and table files do not support the use of external DFD files. Of the system database files that require external DFD files, only these actual DFD files are required:

- Transaction file DFD
- Recipient batch file DFD
- Application index file DFD

The transaction file DFD is used by the transaction file and the new transaction file. The recipient batch file DFD is used by both the recipient batch files and the manual batch files. The application index file DFD is used by the application index file.

So, for installations, these are the only DFD files that possibly need to be configured.

There are two ways to create a table file:

- Via the Tables option
- When creating a field using the Properties window

The screens you use are the same. The Tables option lets you create tables for the fields you create.

TRANSACTION FILE DFD

The transaction file DFD, commonly referred to as the TRNDFDFL, is used by these modules:

- GenTrn
- GenData
- GenArc

The GenTrn program writes out the transaction file using the TRNDFDFL. The GenData program reads the transaction file and writes out the new transaction file using TRNDFDFL. The GenArc program reads the new transaction file using TRNDFDFL.

The name of the TRNDFDFL is set in the initialization file in the Data control group as follows:

```
< Data >
TrnDfdFile = TrnDfdFl.Dfd
```

RECIPIENT BATCH FILE DFD

The recipient batch file DFD, commonly referred to as the RCBDFDFL, is used by these modules:

- GenData
- GenPrint
- GenWIP

The GenData program writes out the recipient and manual batch files using the RCBDFDFL. The GenPrint program reads the recipient batch files using RCBDFDFL. The GenWIP program reads the manual batch files using RCBDFDFL.

The name of the RCBDFDFL is set in the initialization file in the Data control group as follows:

```
< Data >
RcbDfdFile = RcbDfdFl.Dfd
```

APPLICATION INDEX FILE DFD

The application index file DFD, commonly referred to as the APPIDXDFD is used by these modules:

- GenArc
- AFEMAIN

The GenArc program writes out the application index file using the APPIDXDFD. The AFEMAIN program reads the application index file using APPIDXDFD.

The name of the APPIDXDFD may be set in the initialization file in the ArcRet control group as follows:

```
< ArcRet >
AppIdxDfd = AppIdx.Dfd
```

However, the APPIDXDFD name does not have to be set as shown above provided you are running the system in a Windows environment. If the APPIDX.DFD name is not specified as shown, the system automatically appends a DFD extension to the APPIDX name specified in the same group, which is specified as follows:

< ArcRet > AppIdx = AppIdx

This will not work in an environment that does not support file name extensions.

In addition to the specifying the name of the APPIDXDFD, other related settings must be made in the initialization file to use the GenArc and AFEMAIN programs. These changes will be discussed in the Archive/Retrieval setup section.

FIELD SECTION

The FIELD section lists all the fields in the record structures and the order those fields appear in the storage media. The fields are automatically stored internally in the same order they appear externally.

Field	Format Type	Field / Format Description
Name	FIELDNAME can have length limitations, based upon each database type. For instance, when using xBase, the FIELDNAME length is 10 characters.	Name of the field used by applications to reference data in the DFD record. Defaults to FIELDXXX, where XXX is the next sequential field number.
Internal Type	BLOB CHAR_ARRAY CHAR_ARRAY_NO_NULL_TERM DATETIME DECIMAL DOUBLE FLOAT LONG LONG DOUBLE NOT_PRESENT SHORT SIGNED CHARACTER TIMESTAMP UNKNOWN UNSIGNED CHARACTER UNSIGNED CHARACTER UNSIGNED CHARACTER UNSIGNED SHORT VARCHAR	Data format of field used internally by Documaker Binary Large Object NULL terminated string character array not NULL terminated A Documaker date/time field expressed as a decimal value double precision float single precision 32-bit signed integer long double precision not present in this record 16-bit signed integer a signed character a Documaker time stamp data type is unknown an unsigned character 32-bit unsigned integer 16-bit unsigned integer variable length character array
Internal Length		Same as External Length except one additional byte is added to length to store null termination byte. Maximum of 255.
Internal Precision		Same as External Precision. Maximum of 255.
External Type	Same as Internal Type format types.	Data format of the field on storage media. Same as Internal Type format descriptions.
External Length		Length of field on storage media. This is valid for data types CHAR_ARRAY & CHAR_ARRAY_NO_NULL_TERM only. It is ignored for all other data types. Maximum of 255 characters.
External Precision		Number of digits after decimal point. This is valid for data types FLOAT, DOUBLE, and LONG_DOUBLE only. It is ignored for all other data types. Maximum of 255 characters.

Note

The external record definition must match the actual records written to or read from the database. The internal record definition is provided for easier programming use.

KEY SECTION

The Key section lists fields that are key fields. This field is only used by DB/2 and indicates that the field is required. The purpose of defining keys is to define columns if a database is being used when WIP and/or archive is being implemented.

Field	Description	
Name	Defaults to KEY01, KEY02, and so on. Can be changed.	
Field list	Used for associating the KEYXX with a field already defined in the DFD.	
Descending	If using SQL databases, descending works by issuing the correct order by command.	

Chapter 15

Converting Files

Use the Conversion option to convert, change, or compile one or more files. This chapter covers these topics:

- *Overview* on page 694
- Converting Word and RTF Files on page 697
- Converting Files into Sections on page 707
- Compiling Sections into Print Files on page 716
- Converting Sections into Paragraphs on page 718
- Converting Graphic Files on page 719
- Making Changes to Multiple Forms on page 720
- Making Changes to Multiple Sections on page 723
- Converting Bitmap Files into LOG Files on page 730
- Converting System Files into XML Files on page 731
- Converting Documerge Resources on page 733
- Changing Recipient Information on page 737
- Importing XML Schemas into the XDD on page 739
- Using the Common Fields Dictionary on page 680
- Changing Multiple Script Files on page 741

OVERVIEW

The first step is to start a conversion by choosing the Manage, Conversion option from the menu or by double clicking on Conversion in the Workspace tree. The Conversion Type window appears:

Choose the Conversion Type		×
٩ 🕲		
Inport Document Files Convert Files to Sections Compile Sections to Print Files Convert Sections to Print Files Change Multiple Forms Change Multiple Sections Convert Bimap Files to Graphic Files Convert Files to XML Files Documerge to Documaker Tasks Change Recipients Convert an XSD File to a Data Extract Change Multiple Scripts		
,	< Back Next >	Cancel Help

Highlight the type of conversion you want to perform and click Next to go to the next window. Click Cancel to exit Conversions.

То	See
Import Documaker document files created in Microsoft Word	Appendix A, Using the Documaker Add-in for Microsoft Word on page 840
Convert Microsoft Word (DOC or DOCX) files or RTF files into forms	<i>Converting Word and RTF Files</i> on page 697
Convert files into sections	Converting Files into Sections on page 707
Compile sections into PCL, AFP, Metacode, PostScript, or VIPP print files	Compiling Sections into Print Files on page 716
Convert sections into paragraph (PAR) files	Converting Sections into Paragraphs on page 718
Convert graphics files into another format	<i>Converting Graphic Files</i> on page 719

То	See
Assign, reapply, or remove templates from form (FOR) files.	Making Changes to Multiple Forms on page 720
Remove task comments	Making Changes to Multiple Forms on page 720
Set Tray	Making Changes to Multiple Forms on page 720
Set Duplex	Making Changes to Multiple Forms on page 720
 Make changes to sections. This includes: Fixing negative coordinate on a section Rotating a section 90 degrees Retaining section dimensions Adjusting X and Y coordinates Changing section names Changing DAL calcs into DAL scripts Telling Studio to use 4-digit year date formats Updating fields on the section from the FDB Requiring unique field names Deleting fields Recalculating coordinates Changing fonts Updating DDT files from FAP files Updating DDT files from the XDB Combining adjacent text labels Returning to the default colors Changing to print in color Mapping alternative font characters 	Making Changes to Multiple Sections on page 723
Convert graphics files into the Documaker LOG file format	Converting Bitmap Files into LOG Files on page 730
Convert application definition (BDF), form lists (GRP), form (FOR), template (TPL), or section (FAP) files into XML format.	Converting System Files into XML Files on page 731
Convert Documerge resources into Documaker resources	Converting Documerge Resources on page 733
Change a recipient in selected resources	Changing Recipient Information on page 737
Import an XML schema (XSD) into an extract data dictionary (XDD)	Importing XML Schemas into the XDD on page 739
Perform DAL Syntax Check	Change Multiple Sections - Field Conversions - Field DAL Calculations Choose the Check DAL script option to validate script syntax.

То	See
Attempt to fix Script Error	Change Multiple Scripts - Field Conversions – Attempt to Fix Script Error
	Studio fixes common DAL script errors such as
	 Misplaced ELSE or END statements.
	Comment asterisk not occurring in the first column.

Note

Other conversion options are available by running command line utilities. Refer to the Utilities Reference for more information.

CONVERTING WORD AND RTF FILES

You can convert Microsoft Word (DOC or DOCX) and Rich Text Files (RTF) into Documaker form (FOR) files. And optionally, during the conversion Studio can create separate files (FAP files) for each section and separate files (LOG files) for each graphic in the converted form.

Note Microsoft Word must be available on the workstation when you use Studio to convert DOC or DOCX files. If Word is not available, the convert process will fail and you will see this message in the output area:

Failed to Start Microsoft Word.

Understanding the Import Process on page 862 provides general information on what is and is not converted. For information on how fonts are handled, see *Understanding Font Mapping* on page 704.

Note You can also use the RTF2FAP utility to convert RTF, DOC, or DOCX files into FAP files. See the Utilities Reference for more information.

Follow these steps to convert Word and RTF files into Documaker forms:

1. Choose the Import Document Files option on the Choose the Conversion Type window. The Choose Files to Convert window appears.

🖓 Choose Files To	Convert		×
	of files you wish to convert, th ted the files you wish to convert MS Word (DOC, DOCX) Files to	en click the Browse button to select the files. Once ;, click Next to continue. Forms	•
Files to convert			
	Old Name	New Name	
Browse	Browse Folder	Delete Row Clear Grid	
	< Back	Next > Cancel Help	

2. Select the type of conversion you want, then select the files you want to convert.

Click	To select
Browse	The files you want to convert.

Click	To select
Browse Folder	The folder that contains the files you want to convert. You can also select Search Sub Folders to find files in sub folders. The Browse Folder button changes to a Stop button that lets you end a search.

Use the Delete Row or Clear Grid buttons modify your file selections. You can also give a file a new name on this screen. Once you select the files to convert, click Next. The Conversion Options window appears:

Conversion Options	
Ð 🕖	
Import Options	
Field Identifier	None
Default Field Length	50
Default Field Scope	Section
Create Table Rows and Cells	No
File Options	
Create Separate Graphics	Yes
Create Separate Sections	No
Name Separator	

Field

Description

Import Options

Field Identifier	Designate unique field identifiers in RTF, DOC, or DOCX files to mark text to be imported as Section field names. Valid entries include:
	None
	<fieldname></fieldname>
	«fieldname»
	< <fieldname>></fieldname>
	{fieldname}
	[fieldname]
	-fieldname-
	None is the default entry. Note that the field identifier of IStream Migration is automatically set when running the Convert Files to Sections wizard. Field delimiters cannot be used for other purposes within the document.
Default Field Length	Enter the field length you want Studio to assign to the fields it finds during the conversion. The default is 50 characters.

Field	Description		
Default Field Scope	 Choose the field scope you want Studio to assign to the fields it finds during the conversion. You can choose from these options: Section – data is only written to the same named field within a section. Form – data is written to the same named field throughout all sections within the form. Global – data is written to the same named field throughout all sections and all forms in the form set. The default is Section. 		
Create Table Rows and Cells	When importing a Word table, create Documaker table rows and cells with borders rather than simple lines and boxes.		
File Options			
Create Separate Graphics	Enter Yes if you want Studio to create separate graphic (LOG) files and assign a name based on the name of the input document and the separator you specify in the Name Separator field. Enter No if you want Studio to embed any graphics into the section. You can later remove embedded graphics by editing the file and replacing the graphic or unchecking the embedded option for the graphic. The default is Yes.		
Create Separate Sections	Enter Yes if you want Studio to create a FAP file (section) for each page and for each header and footer in the input document. If you answer Yes, Studio assigns a name to each page of the document based on the name of the input document and the separator you specify in the Name Separator field. Enter No if you want Studio to place the content into embedded sections on the form. You can later unembed these sections in the Form manager by unchecking the Embedded option. The default is No.		
Name Separator	Enter the character you want Studio to insert between elements of the file name. The separator can be nothing, a blank, an underscore, or any other valid Windows file name character. For example, if the name of the input document is Declaration and you choose to create separate sections you would get these results for page 1: Separator Result		
	(nothing) Declaration1.FAP Blank Declaration 1.FAP Declaration_1.FAP # Declaration#1.FAP		

Note For IStream conversions, the field identifier of IStream Migration is automatically chosen when you run the Convert Files to Sections wizard.

Click Next when finished. The Field and XDD Options window appears:

ield and XDD Options	
Section (FAP) fields	
Set the rule name for each field to:	XDD
Preserve existing rule information if re-converting	
Preserve existing field information if re-converting	
Common Fields Dictionary (FDB)	
Update the Common Fields Dictionary	Advanced
Extract Data Dictionary (XDD)	
Update the Extract Data Dictionary	Advanced
Using XML Paths	
Field name offset	10
Field name value	\$FIELDNAME
Data offset	58
Adjust field name values for block tag fields	7
Adjust data offset values for block tag fields	

3. The Field and XDD Options window lets you tell Studio what to do with the fields it encounters during the conversion.

Field	Description
Section (FAP) Fields	
Set the Rule Name for each Field to	Check this box if you want to set the rule name for each field in the section to a specific value.
Preserve Existing Rule Information if Re- converting	If you have previously converted this file and if you have updated that section with rule information you want to preserve, check this box to preserve the rule information during this conversion.
Preserve Existing Field Information if Re- converting	If you have previously converted this file and if you have updated the fields in the section with information you want to preserve, such as field length, type and so on, check this box to preserve that field information during this conversion.

Common Fields Dictionary (FDB)

Field	Description
Update the Common Fields Dictionary	Check this box if you want Studio to update the Common Fields Dictionary (FDB) with each field name Studio finds in the source file.
	If a field in the source file is not found in the Common Fields Dictionary, it will be added with the font, field length, color settings found in the source, as well as any Studio default settings for Field Scope.
	Click Advanced to specify a default action Studio should take when the field to be added already exists in the Common Fields Dictionary.
	You can choose to be prompted each time for which action to take, have Studio update the record, or have Studio skip the record.
	Common Fields - Settings Below you may specify a default action to take when a field you are adding to the Common Fields database already has a corresponding record in the database. None - prompt me for each duplicate Update the record Skip the record OK Cancel
	If you choose to have Studio prompt you each time it finds a duplicate record, you will see a window similar to the following, during conversion:
	Common Fields (FDB) record exists The following record name already exists in the Common Fields database. Do you want to update this record or skip it ? INSURED NAME
	Update Skip Cancel
	Click Update to update the record in the FDB or Skip to skip this record in the FDB. If you want to cancel the conversion, click Cancel.
	Check the Apply to All box to apply your selection of Update or Skip to the rest of the duplicate records Studio encounters during the conversion.

Extract Data Dictionary

Field	Description
Update the Extract Data Dictionary	Check this box if you want Studio to update the Extract Data Dictionary (XDD) with each field name it finds in the input document. Click Advanced to specify a default action Studio should take when the field to be added already exists in the XDD. You can choose to update the record, add the record, skip the record, or be prompted each time for what action to take.
	Extract Data Dictionary - Settings Below you may specify a default action to take when a field you are adding to the Extract Data Dictionary already has a corresponding record in
	None - prompt me for each duplicate Opdate the record Skip the record OK Cancel
	If you choose to have Studio prompt you each time it finds a duplicate field, you will see a window similar to the Common Fields (FDB) Record Exists window that prompts you to add, replace, skip the record, or cancel the conversion.
Using XML Paths	Click this button if your extract file is in XML format. If the extract file is in XML format, you will locate field data in your extract file using an XPath statement. This XPath statement is specified in the Field Name Value field. Make sure the Field Name Value field is set as shown here: \$/FIELDNAME This tells the system to set up an XPath-compatible search token that references the field's name, such as the one shown here: /FieldName
If Not Using XML Paths	Do <i>not</i> check Using XML Paths if your extract file is <i>not</i> in XML format, but instead is a standard sequential or flat file. If the extract file is a standard sequential file, you will locate field data in your extract file using an offset, value statement. The offset, value statement is specified in the Field Name Offset and Field Name Value fields. Make sure the Field Name Value field is set as shown here:
	$\ensuremath{\$Field}\xspace$ If you set the Field Name Offset field to 10, this creates a result similar to the one shown here:
	10, FieldName Note: Whether you want the slash before the name depends on whether it is appropriate for the type of search your data requires. If your field names do not appear in the extract rows, specify whatever text identifies the record where the field data occurs. For example, with these settings:
	Field Name Offset:1 Field Name Value: InputData The result in your data area will be: 1, InputData
	This means your fields will be in a record identified by finding <i>InputData</i> starting in the first text position. Then the data offset from the XDD definition of the field would be used to find the actual field value. You should only have to set the Field Name Value the first time you do a conversion. After you set the field, Studio remembers your entry.
	Studio also sets the Data Offset field to a number you specify, such as 58, for an extract file created with the VRF2EXP utility

Field	Description
Field Name Offset	This field is only applicable if your extract file is <i>not</i> in XML format. Here you can specify the offset at which the system can expect (or test for) a particular value. You specify the value the system should test for in the Field Name Value field. The default is 10.
Field Name Value	This field is applicable for both types of extract file. If your extract file is not in XML format, the Field Name Value field lets you specify the value to test for at the offset specified in the Field Name Offset field. For example, if the Field Name Offset field contains <i>10</i> and the Field Name Value field contains <i>MYFIELD</i> , the Data field in the XDD is set to <i>10,MYFIELD</i> . When Documaker processes this field, it looks at offset 10 in the record in the extract file and tests for the string <i>MYFIELD</i> at that offset. If the test is successful, Documaker goes to the offset specified in the Data Offset field and copies the data at that offset into the field. If your extract file is in XML format, the Field Name Value field lets you specify the XPath to use to search for data for the field. For example, if the Field Name Value field contains <i>/MYFIELD</i> , the Data field in the XDD is set to <i>/MYFIELD</i> . When Documaker processes this field, it would use this XPath (<i>/MYFIELD</i>) to locate data to copy into the field being processed.
Data Offset	This field is only applicable when your extract file is <i>not</i> in XML format. Use this field to indicate the offset in the record in the extract file at which to expect field data. For example, if you enter 58 here, the Field Name Offset field contains 10, and the Field Name Value field contains <i>\$FIELDNAME</i> , during conversion, an XDD record would be created whose Data portion contains 10, fieldname, where <i>fieldname</i> is the actual field name (since the <i>\$FIELDNAME</i> keyword parameter was used) and the whose Offset portion contains 58. Documaker would process the field named <i>ADDRESS1</i> by reading the contents of the XDD record for that field (ADDRESS1), then looking in the extract file at offset 10 for the value <i>ADDRESS1</i> . If the string <i>ADDRESS1</i> is found at offset 10, Documaker would look at offset 58 and copy the data at that offset to the field on the section.
	ou are performing a Documerge to Documaker conversion and you are using the prate a Documaker extract file from a Documerge VRF file.
Adjust Field Name Values for Block Tag Fields	Check this box if you want the system to update the Data field in the XDD with the field's root name (for example, ADDRESS) rather than with the unique field name (ADDRESS #001_01) that Documaker uses. The extract file produced by the VRF2EXP utility generates records that contain the root field name for the field at offset 10, then multiple data values concatenated one after the other beginning at offset 58.
Adjust Data Offset Values for Block Tag Fields	Check this box if you want the system to increment the Offset field in the XDD to the next portion of the block tag's data.

Once you have selected the files you want to convert, click Next to go to the Convert Files and Finish window. See *Changing Multiple Script Files* on page 741 for more information.

Documerge to Documaker implementations

When the wizard encounters a block tag in a normalized file, it creates a field for each line of the block. Each field is given a name consisting of the tag name followed by:

- A space
- An octothorpe (#)
- A three-digit number that corresponds to the numerical sequence of that line in the block
- An underscore (_)
- A two-digit number, incremented for each block tag on the page that has the same name

When the wizard creates the Data Extract Dictionary (XDD) entry for this field, the renamed field, along with an offset value, is placed into the Data portion of the XDD record. If you are planning to use this XDD as part of a Documerge to Documaker Tier 2 implementation, the name placed into the Data portion of the record should be the original tag name, not the renamed field. To set the field name to the original tag name, check the Adjust field name values for the block tag fields field.

Additionally, when the wizard creates the XDD entry for this record, the Offset portion of the XDD record is assigned the value you provide in the Data Offset field on this page of the wizard. In a Documerge to Documaker Tier 2 implementation, the offset is usually 58, so this value is provided as the default.

In some Documerge to Documaker Tier 2 implementations, a single record in the extract file that this XDD entry is mapped to may contain values for all the lines of a block tag field rather than just the value for a particular line of the block tag field. If that is the case, you would want the Offset portion of the XDD record to be incremented (by the tag length) for each field corresponding to lines two and higher of the block tag. To make this adjustment, check the Adjust data offset values for a block tag field.

Note Studio saves your choices so they will be available the next time you run this conversion.

Understanding Font Mapping

Handling fonts is an important part of all conversion options available when you choose the Import Document Files option. When converting Word (DOC or DOCX) and Word Documaker document files from the Documaker Add-In for Word, Studio temporarily converts the source files into RTF format. While in RTF format, Studio compares the fonts used in the source document to fonts in the font cross-reference (FXR) file. To find the best match, Studio evaluates font attributes and calculates a score that reflects how well the attributes match. It then uses the font with the highest score.

Note

If you choose the Rich Text (RTF) Files to Forms option, no initial conversion to RTF format is required, but the font matching process is the same.

The most important criteria in calculating the font score is the ability to display text in the RTF file. Matching the font name to the font family name is the second highest priority is calculating a font score. Matching the point size of the text with a font in the FXR is considered next. Matching the bold or italic attribute is one of the lowest priorities in calculating the font substitution score for a font.

Note If a font uses Unicode characters, a Unicode font in the FXR is always chosen over a non-Unicode font.

Here is a description of how the font matching process works:

For example purposes, the font Studio is trying to match from the RTF file will be called the *RTF font*. The fonts in the FXR will be called *FXR fonts*.

• Studio first compares the RTF font name to the font family name of the FXR font. If a full match is not found, partial matches are allowed for some fonts, such as Times and Courier.

You can specify matches in the RTFFontSubs control group. Here is an example of an entry:

```
< RTFFontSubs >
    Arial = Albany AMT:UNIVERS:HELV
```

The name on the left is the facename of the RTF font. On the right, each matching FXR font's family name is separated with a colon (:). Preference is given to the names in the order they are listed.

You can specify a default font name in the INI file. If there is a tie for the best match, this font name is used if possible. Here is an example of how you could set this INI option:

```
< RTFDefaultFont >
RTFDefaultFont = Courier
```

If you omit this INI option or leave it blank, Studio uses Albany AMT as the default.

- Studio next evaluates font sizes and considers the difference between the font sizes. If the difference is too large over 2 points in most cases— then a facename match is disregarded. This allows fonts with different names to be substituted if their font size is a closer match.
- Studio evaluates other attributes, such as if the font is bold or italic.

If there is no exact match between a font in the RTF file and a font in the FXR, Studio substitutes the font in the FXR that has the highest score for the font in the RTF file.

Note Studio places font substitution messages in the Output area and the trace file if you set the following options to Yes:

```
< Debug_Switches >
   Enable_Debug_Options = Yes
   Debug_FontSubs = Yes
```

Capturing Information from Imported Word Files

When Studio imports a Word (DOC, DOCX, or RTF) file, it captures any author, last author, creation date, last saved date, and application name information stored in the Word file. Studio attaches this information to the section or paragraph and stores it in history where you can view it from within Studio.

	Pro	operties	9
	S	ection Options	
	C) 🗶 🛊 🖲 🥹	
	-	General]
	•	Margins	
	•	Paper	
	÷	Information	
		File name	AMERGEN MARKE
Click here to display		Description	
		Task Comments	
ne History window		Creation date	
		Designer	
		Fontfile	rel103sm
		Current user	MWN
			History
		Section rules	3
	•	Entry	
	•	Color	

On the History window, information about the highlighted entry appears in the History Comments field.

	🚰 History		
	Date	User	ОК
_ >	Tue Jan 05 07:53:00 2010 Tue Jan 05 07:52:00 2010	mary mary	Cancel
about the			New
entry	J History Comments:		
) .	Last saved in MS Word		<u>^</u>
	<		>
	,		

This information is captured using the locale in use at the time of the import. If the content is later viewed by a user in a different locale, the information retains the original locale settings.

Comments about the highlighted entry appear here.

Note

CONVERTING FILES INTO SECTIONS

You can choose to convert to several file types including:

- IStream Migration (RTF) files
- PCL print files
- Metacode Form (FRM) files
- Metacode files
- Normalized Metacode files
- AFP print files
- Normalized AFP files
- PDF files
- TIF files
- DCD files
- Compuset files

Note There are several utilities you can use to batch convert files into FAP files, such as MET2FAP (Metacode to FAP), DCD2FAP (DCD to FAP), RTF2FAP (RTF to FAP and FOR) and CSET2FAP (CompuSet to FAP). See the Utilities Reference for more information.

Follow these steps to convert files into sections:

1. Choose the Convert Files to Sections (FAPs) option on the Choose the Conversion Type window. The Choose Files to Convert window appears.

Convert files of typ ⊢Files to convert –	e: IStream Migration RTF		V
	Old Name	New Name	
	Browse De	ete Row Glear Grid	

- 2. Select the type of conversion you want, then click Browse to select the files you want to convert.
- **Note** Some conversions, such as IStream Migration and PDF conversions, offer additional options specific to that conversion. Refer to the these topics or the Help for additional information:
 - Converting IStream Migration RTF Files on page 708
 - Converting PDF Files on page 715
 - 3. Once you have selected the files you want to convert and set any applicable options, click Next to go to the Convert Files and Finish window. See *Changing Multiple Script Files* on page 741 for more information.

Converting IStream Migration RTF Files

You can use the IStream Migration Utility to convert IStream model documents into RTF files. You can then use Studio's option to import an IStream Migration RTF file to convert those RTF files into sections. During this conversion, Studio automatically sets the size of the section, recognizes tags as fields from the RTF, and creates XDD entries. Studio also imports property information for these fields from the FDB, if available.

Note You can also use the RTF2FAP utility to convert IStream Migration RTF files. For more information on the RTF2FAP utility and the IStream Migration Utility, see the Utilities Reference.

During the conversion, Studio...

- Creates a section to match the text in the IStream RTF file.
- Sizes the resulting section to the height of the text.
- Recognizes text surrounded by brackets (<>) as fields. Duplicate field names are not permitted in a single section. Therefore, if duplicates are found in the IStream Migration RTF file, Studio appends a suffix to the duplicate field names to make them unique. If the brackets are in a different font than the text, the text inside the brackets are not recognized as a field.
- Looks up the field in the FDB and gets the field length. Sets the type to alphanumeric. If the field is not found, Studio uses the default length set for the conversion and assigns a type based on tag name prefix:

If the tag name begins with	Studio assigns it this type
С	Character fields (field size 1024 characters)
D	Date fields (field size 18 characters)
T	Indicator fields (field size one character)
Ν	Numeric fields (field size 15 characters)

If the first character is not C, D, N or I, the default value is used when creating the FDB entry.

Note For field length, Studio first looks in the FDB. It next looks at the first character of the field's name and uses that character as a guide to the field type and length. If the field is not in the FDB and its name does not start with C, D, I, or N, Studio uses the default field length you specified in the Conversion wizard or via this INI option:

```
< RTFImport >
DefaultFieldLength =
The default is 50.
```

Creates task comments for any expressions surrounded by brackets (<>). If an
expression or field has an invalid name, Studio substitutes a generic name
(*FIELD*) and includes a task comment as a reminder to you to follow-up with the
needed information. You should convert these expressions into DAL script
functions.

After you select the IStream Migration RTF files you want to convert, this Conversion Options window appears:

	onversion Options		
4) 🙆		
÷	Import Options		
	Default Field Length	50	
	Default Field Scope	Section	
Ŷ	File Options		
	Create Separate Graphics	Yes	
	Name Separator		
Ŀ			
Ŀ			
Ŀ			
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L			

Enter the applicable information in these fields.

Field	Description				
Import Options					
Default Field Length	Choose the field length you want Studio to assign to the fields it finds during the conversion. The default is 50 characters.				
Default Field Scope	 Choose the field scope you want Studio to assign to the fields it finds during the conversion. You can choose from these options: Section – data is only written to the same named field within a section. Form – data is written to the same named field throughout all sections within the form. Global – data is written to the same named field throughout all sections and all forms in the form set. The default is Section. 				
File Options	File Options				
Create Separate Graphics	Enter Yes if you want Studio to create separate graphic (LOG) files and assign a name based on the name of the input document and the separator you specify in the Name Separator field. Enter No if you want Studio to embed any graphics into the section. You can later remove embedded graphics by editing the file and replacing the graphic or unchecking the embedded option for the graphic. The default is Yes.				
Name Separator	Enter the character you want Studio to insert between elements of the file name. The separator can be nothing, a blank, an underscore, or any other valid Windows file name character. For example, if the name of the input document is Declaration and you choose to create separate sections you would get these results for page 1: Separator Result (nothing) Declaration1.FAP Blank Declaration 1.FAP # Declaration_1.FAP				

Click Next when finished. The Field and XDD Options window appears:

1) 🔘	
Section (FAP) fields	
Set the rule name for each field to:	XDD
Preserve existing rule information if re-converting	
Preserve existing field information if re-converting	
Common Fields Dictionary (FDB)	
Update the Common Fields Dictionary	Advanced
Extract Data Dictionary (XDD)	
Update the Extract Data Dictionary	Advanced
Using XML Paths	
Field name offset	10
Field name value	\$FIELDNAME
Data offset	58
Adjust field name values for block tag fields	
Adjust data offset values for block tag fields	

• The Field and XDD Options window lets you tell Studio what to do with the fields it encounters during the conversion.

Field	Description
Section (FAP) Fields	
Set the Rule Name for each Field to	Check this box if you want to set the rule name for each field in the section to a specific value.
Preserve Existing Rule Information if Re- converting	If you have previously converted this file and if you have updated that section with rule information you want to preserve, check this box to preserve the rule information during this conversion.
Preserve Existing Field Information if Re- converting	If you have previously converted this file and if you have updated the fields in the section with information you want to preserve, such as field length, type and so on, check this box to preserve that field information during this conversion.

Common Fields Dictionary (FDB)

Field	Description
Update the Common Fields Dictionary	Check this box if you want Studio to update the Common Fields Dictionary (FDB) with each field name Studio finds in the source file.
	If a field in the source file is not found in the Common Fields Dictionary, it will be imported with its font, field length, color settings found in the source, as well as any Studio default settings for field scope. It can also be added to the Fields Dictionary.
	If a field in the source file is found in the Fields Dictionary, it will use the field properties found in the Fields Dictionary when it becomes a section in Studio.
	Click Advanced to specify a default action Studio should take when the field to be added already exists in the Common Fields Dictionary.
	You can choose to be prompted each time for which action to take, have Studio update the record, or have Studio skip the record.
	Common Fields - Settings Below you may specify a default action to take when a field you are adding to the Common Fields database already has a corresponding record in the database. None - prompt me for each duplicate Update the record Skip the record OK Cancel If you choose to have Studio prompt you each time it finds a duplicate record, you will see a window similar to the following, during conversion:
	Common Fields (FDB) record exists Image: Common Fields (FDB) record exists The following record name already exists in the Common Fields database. Do you want to update this record or skip it ? INSURED NAME Update Skip Cancel Apply to All
	Click Update to update the record in the FDB or Skip to skip this record in the FDB. If you want to cancel the conversion, click Cancel. Check the Apply to All box to apply your selection of Update or Skip to the rest
	of the duplicate records Studio encounters during the conversion.

Extract Data Dictionary

Field	Description
Update the Extract Data Dictionary	Check this box if you want Studio to update the Extract Data Dictionary (XDD) with each field name it finds in the input document.
	Click Advanced to specify a default action Studio should take when the field to be added already exists in the XDD. You can choose to update the record, add the record, skip the record, or be prompted each time for what action to take.
	🌮 Extract Data Dictionary - Settings 🛛 🔀
	Below you may specify a default action to take when a field you are adding to the Extract Data Dictionary already has a corresponding record in the dictionary.
	None - prompt me for each duplicate
	C Update the record
	C Add the record
	C Skip the record
	OK Cancel
	If you choose to have Studio prompt you each time it finds a duplicate field, you will see a window similar to the Common Fields (FDB) Record Exists window that prompts you to add, replace, skip the record, or cancel the conversion.
Using XML Paths	Click this button if your extract file is in XML format.
Ŭ	If the extract file is in XML format, you will locate field data in your extract file using an XPath statement. This XPath statement is specified in the Field Name Value field. Make sure the Field Name Value field is set as shown here:
	\$/FIELDNAME
	This tells the system to set up an XPath-compatible search token that references the field's name, such as the one shown here:
	/FieldName
If Not Using XML Paths	Do <i>not</i> check Using XML Paths if your extract file is <i>not</i> in XML format, but instead is a standard sequential or flat file.
	If the extract file is a standard sequential file, you will locate field data in your extract file using an offset, value statement. The offset, value statement is specified in the Field Name Offset and Field Name Value fields.
	Make sure the Field Name Value field is set as shown here:
	\$FIELDNAME
	If you set the Field Name Offset field to 10, this creates a result similar to the one shown here:
	10,FieldName
	Note: Whether you want the slash before the name depends on whether it is appropriate for the type of search your data requires. If your field names do no appear in the extract rows, specify whatever text identifies the record where the field data occurs. For example, with these settings:
	Field Name Offset:1 Field Name Value: InputData
	The result in your data area will be:
	1, InputData
	This means your fields will be in a record identified by finding <i>InputData</i> starting in the first text position. Then the data offset from the XDD definition of the field would be used to find the actual field value. You should only have to set the Field Name Value the first time you do a conversion. After you set the field, Studio remembers your entry.
	Studio also sets the Data Offset field to a number you specify, such as 58, for
	an extract file created with the VRF2EXP utility

Field	Description
Field Name Offset	This field is only applicable if your extract file is not in XML format.
	Here you can specify the offset at which the system can expect (or test for) a particular value. You specify the value the system should test for in the Field Name Value field. The default is 10.
Field Name Value	This field is applicable for both types of extract file.
	If your extract file is not in XML format, the Field Name Value field lets you specify the value to test for at the offset specified in the Field Name Offset field. For example, if the Field Name Offset field contains <i>10</i> and the Field Name Value field contains <i>MYFIELD</i> , the Data field in the XDD is set to <i>10,MYFIELD</i> . When Documaker processes this field, it looks at offset 10 in the record in the extract file and tests for the string <i>MYFIELD</i> at that offset. If the test is successful, Documaker goes to the offset specified in the Data Offset field and copies the data at that offset into the field.
	If your extract file is in XML format, the Field Name Value field lets you specify the XPath to use to search for data for the field.
	For example, if the Field Name Value field contains <i>/MYFIELD</i> , the Data field in the XDD is set to <i>/MYFIELD</i> . When Documaker processes this field, it would use this XPath (<i>/MYFIELD</i>) to locate data to copy into the field being processed.
Data Offset	This field is only applicable when your extract file is not in XML format.
	Use this field to indicate the offset in the record in the extract file at which to expect field data.
	For example, if you enter 58 here, the Field Name Offset field contains 10, and the Field Name Value field contains <i>\$FIELDNAME</i> , during conversion, an XDD record would be created whose Data portion contains 10, fieldname, where fieldname is the actual field name (since the <i>\$FIELDNAME</i> keyword parameter was used) and the whose Offset portion contains 58.
	Documaker would process the field named <i>ADDRESS1</i> by reading the contents of the XDD record for that field (ADDRESS1), then looking in the extract file at offset 10 for the value <i>ADDRESS1</i> . If the string <i>ADDRESS1</i> is found at offset 10, Documaker would look at offset 58 and copy the data at that offset to the field on the section.
	ou are performing a Documerge to Documaker conversion and you are using the rate a Documaker extract file from a Documerge VRF file.
Adjust Field Name Values for Block Tag Fields	Check this box if you want the system to update the Data field in the XDD with the field's root name (for example, ADDRESS) rather than with the unique field name (ADDRESS #001_01) that Documaker uses. The extract file produced by the VRF2EXP utility generates records that contain the root field name for the field at offset 10, then multiple data values concatenated one after the other beginning at offset 58.
Adjust Data Offset Values for Block Tag Fields	Check this box if you want the system to increment the Offset field in the XDD to the next portion of the block tag's data.

Once you have set the conversion options, click Next to go to the Convert Files and Finish window. See *Changing Multiple Script Files* on page 741 for more information.

Note You can find additional information about converting IStream model document files in the Oracle IStream Migration Utility User Guide.

Converting PDF Files

When you convert PDF files, Studio converts the PDF file into an embedded graphic and places that graphic in a section. This Conversion Options window appears to let you specify how to position the embedded graphic within the section:

DF Opt	ions		×
?	Specify PDF conversion options below. T location within the Section, specify that lo coordinates.	o position the embedded bitmap file at a particular ocation by entering its horizontal and vertical	
	PDF Options		
	• Ø		
	 Coordinates 		
	+ Coordinates Horizontal	0 FAPs	
	Vertical	0 FAPs	
ļ	<u>8</u>	ack Next > Cancel Hel	

Field	Description
Horizontal	Enter the distance you want Studio to move the embedded graphic from the left edge of the section. For instance, if you are using FAP units as your unit of measure and you want the embedded graphic placed 1/4 inch from the left edge of the section, you would enter 600.
Vertical	Enter the distance you want Studio to move the embedded graphic from the top edge of the section. For instance, if you are using FAP units as your unit of measure and you want the embedded graphic placed 1/4 inch from the top edge of the section, you would enter 600.

Once you have set these conversion options, click Next to go to the Convert Files and Finish window. See *Changing Multiple Script Files* on page 741 for more information.

COMPILING SECTIONS INTO PRINT FILES

You can choose to compile to several types of print files, including:

- AFP print files
- PCL print files
- Metacode files
- Postscript files
- FRM file
- RTF files

Follow these steps to convert sections into print files:

1. Choose the Compile Sections to Print Files option on the Choose the Conversion Type window. The Compile Sections to Files window appears.

File type:	on to select the Section		uld be converted	, then dick the browse	[
Source	Old Name	New Name	Version	Revision	
	AUTO 25 TO 50	AUTO 25 TO 50	00001	00001	
	Browse	Delete Row		Clear Grid	
	Browse	Delete Row] _	Clear Grid	

2. Once you have selected the files you want to change, click Next. The Compile Section to Overlay window appears.

pile Section to Overlay			
Select options for the overlay,	, then click Next.		
Print Options			
Use HMI			
Use Color			
Printer Output Mode			
BARR	¢	MRG2	
C BARRWORD	¢	OMRG4	
Short Bind			
C Front Page			
C Back Page			

3. Select the options you want, then click Next to go to the Convert Files and Finish window. See *Changing Multiple Script Files* on page 741 for more information.

CONVERTING SECTIONS INTO PARAGRAPHS

Use this option to convert sections into paragraph (PAR) files. Only the first text area found in a section including embedded fields, graphics, boxes and symbols in that text area are converted to the paragraph file. No other content in the section is converted into the paragraph.

To convert sections into paragraphs, follow these steps:

1. Choose the Convert Sections to Paragraph Files option on the Choose the Conversion Type window. The Compile Sections to Files window appears.

Source	Old Name	New Name	Version	Revision
	1			
	Browse	Delete Row		lear Grid
	browse	Delete Now		icar anu
				end 1
		< Back	iext >	Cancel

- 2. Click Browse to select the files you want to convert.
- 3. Once you have selected the sections you want to change into paragraphs, click Next to go to the Convert Files and Finish window. See *Changing Multiple Script Files* on page 741 for more information.

CONVERTING GRAPHIC FILES

You can choose to convert to several file types including:

- Standard Documaker graphic files (LOG)
- JPEG files (JPG)
- Segmented graphics for AFP printers (SEG)
- Xerox image files (IMG)
- Xerox font files (FNT)
- Bitmap files (BMP)
- TIFF files (TIF)

To convert graphic files, follow these steps:

1. Choose the Convert Graphic Files option on the Choose the Conversion Type window. The Convert Graphics window appears.

Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Cléar Grid	Browse Delete Row Clear. Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid			 		
Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Rrow Clear Grid					
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Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Cléar Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid					
Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Glear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row. Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Glear Grid					
Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Glear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid					
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Browse Delete Row. Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid	Browse Delete Row Clear Grid					
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																			browse	ciece Kuw	Clear Grid	

- 2. Select the graphic type you want to convert to, then click Browse to select the files you want to convert.
- 3. Once you have selected the files you want to change, click Next to go to the Convert Files and Finish window. See *Changing Multiple Script Files* on page 741 for more information.

MAKING CHANGES TO MULTIPLE FORMS

You can make numerous changes to a group of form (FOR) files

You can:

- Assign, reapply, remove or leave templates
- Remove task comments
- Set duplex setting

Studio checks the forms out of the library and makes the indicated changes.

Note Save any open modified files before the conversion proceeds. Documaker Studio will drop the locked form(s) from the Workspace tree which are being converted.

Follow these steps to convert multiple forms:

- 1. On the Choose the Conversion Type dialog select Change Multiple Forms, then click Next.
- 2. The Change Multiple Forms dialog is displayed.

			Browse.
Source	File Name	 File Type	
		Delete Row	Clear Gri

3. Click Browse to find and select the forms to be changed.

Note Use the Ctrl+Click key to select multiple sections.

4. Click Next to move to the Form Conversion dialog

Form Options		
i) 🔞		
Templates		
Template Action	Apply Template	
Templates		
Miscellaneous		
Remove Task Comments		
Set Duplex		
Set Tray	Default	

Templates

Template Action:

Apply Template	Choose this option to apply the selected template to your selected form(s). If the form currently is associated with a template, that template will be replaced with the selected template.
Reapply Template	Choose this option to reapply templates associated with your selected form(s).
Remove Template	Choose this option to remove templates associated with your selected form(s). Only the template name reference is removed. The system does not remove any sections that came from the template.
Leave Template	Choose this option to do nothing with a template on your selected form(s).
Template	Select the Template to Apply.

Note If you choose to either Apply, Reapply, or Remove a template, the form is updated with these template changes first, then any remaining changes are made. For example, if you apply a template which contains a header section whose Duplex value is set to "Default", and you also change the "Set Duplex" value on the Form Conversion page to "Rolling", the Duplex value for the header section will ultimately be set to "Rolling".

Miscellaneous

Remove Task Comments	Choose this option to remove task comments from your selected form(s).
Set Tray	Check the checkbox to the left of the Set Tray label, then choose the appropriate tray value from the drop-down box to the right to change the tray selection for the sections within the form.
Set Duplex	Select the Duplex setting from the pick list to apply to the selected form(s).

Duplex Settings

Default	Prints only on single-sided pages (not duplexed).
Back Page	Is a back page in a duplexed form (pages 2, 4, 6, and so on).
Front Page	Is a front page in a duplexed form (pages 1, 3, 5, and so on).
Rolling	Prints on both sides of paper. Odd pages print on the front, even pages print on the back. Pages are duplexed in a book fashion, with odd pages on the right side, beginning with page 1, and even pages are on the left side, beginning with page 2. Note: You must mark the first Section as either front or back. Then, mark subsequent Sections as rolling.
Short Bind	Prints on both sides of paper. Odd pages print on the front, even pages print on the back. Pages are duplexed in flip chart fashion, top to bottom.

If the form contains header sections, each of those header sections is set to the selected duplex value, as long as the section is not "View-only", "Hidden" or "Optional Back".

If there are no header sections, or no header sections eligible to be set to the duplex value, then the first non-header section (which is not "View-only, "Hidden" or "Optional Back") is set to the selected duplex value.

If there are no eligible header or body sections, but there is an eligible footer section, the duplex setting will be updated for the footer section.

Note Entry only sections are not updated by this conversion as entry only sections do not print.

Once you have selected the options you want, click Next to go to the Convert Files and Finish window. See *Changing Multiple Script Files* on page 741 for more information.

MAKING CHANGES TO MULTIPLE SECTIONS

You can make numerous changes to a group of section (FAP) files. For instance, you could use this option to convert FAP files created with the DAP Development System into newer FAP file versions. You can also use this option to make global changes to a group of FAP files you select.

For instance, you can use this option to:

- Change fonts
- Change field names
- Recalculate font coordinates
- Replace specific characters
- Update FAP files from the Field Database
- **Note** Save any open modified files before the conversion proceeds. Documaker Studio will drop the locked section(s) from the Workspace tree which are being converted.

Follow these steps to convert files into sections:

1. Choose the Change Multiple Sections option on the Choose the Conversion Type window. The Change Multiple Sections window appears.

hange Multiple	Sections				
Browse	Clear Grid	Remove			
Files to fix:					
Source	File Name		File Type		
			-		
		< Back	Next >	Cancel	Help

 Click Browse to find and select the sections you want to run this conversion on. Use the Ctrl key to select multiple sections. Click Next to move to the Section Conversions window.

Section Conversions

The Section Conversions window lets you define changes to apply to the sections you selected.

Section Conversions		×
Section Coordinates/Dimensions	Rotate 90 degrees	
Retain Section Dimensions Adjust X Coordinates 0 FAPs	Adjust Y Coordinates	
Alignment	Move To Top	
Change Section Name		
Old Name AUTO 25 TO 50	New Name AUTO 25 TO 50	
AUTO OVER 50	AUTO OVER 50	
	< Back Next > Cancel	Help

Use these fields to indicate changes you want made to the sections:

То	Then
Fix Negative Coordinates	Check the Fix Negative Coordinates field. Negative coordinates are not produced by Studio, but some users have encountered them when converting print streams.
Retain Section Dimensions	Studio increases a sections horizontal or vertical dimensions if you place objects outside the section's borders. To prevent this from happening, check the Retain Section Dimensions field.
Rotate 90 Degrees	Check to rotate the section 90 degrees.
Adjust X Coordinates	Enter the appropriate value in FAP units into the Adjust X Coordinates field. FAP units are 2400 units per inch. For instance, to adjust by 1.5 inches, you would enter 3600 in this field.
Adjust Y Coordinates	Enter the appropriate value in FAP units into the Adjust Y Coordinates field. FAP units are 2400 units per inch. For instance, to adjust by 1.5 inches, you would enter 3600 in this field.
Shrink Section	Check to shrink the section bottom coordinates to the bottom of the lowest object.
Move to Top	Check to move all object's coordinates to the top of the section to eliminate white space.
Change Section Name	Enter the current name of the FAP file in the Old Name field and the name you want to assign in the New Name field.

Note Check the Match Case field if you want Studio to consider upper- and lowercase letters when it searches for the FAP files to change.

Once you have selected the options you want, click Next to go to the Field Conversions window.

Field Conversions

The Field Conversions window lets you make changes that apply to several fields at one time.

Require unique field names		Delete fields	
Update from field database	Options	🗌 Use 4-digit date fo	ormat
ield DAL Calculations			
Check DAL syntax		Change calculation execute after this	
Attempt to fix script error		only	
hange Field Name			
Match case	Add Row	Delete	Row
Old Name		New Name	
hange Rule Name			
hange Rule Name	Add Row	Delete	Row
hange Rule Name Old Name	Add Row	Delete I	Row
	Add Row		Row
	Add Row		Row
	Add Row		Row
Change Rule Name Old Name	Add Row		Row
	Add Row		Row

Use these fields to indicate changes you want made to the fields on the sections:

Field	Description
Require Unique Field Names	Check this field if you want Studio to check for duplicate field names and warn you if any are found. If Studio finds duplicate fields, it appends an octothorp (#) followed by a number such as 001 to the field name.
Update from Field Database	Check this field if you want Studio to retrieve all of the information stored in the field database except for the font ID.
Delete Fields	Check this field if you want Studio to delete all fields from the sections you selected. Studio does not delete the fields from the Field Database. You can use this option to create overlays.
Use 4-digit Date Format	Check this field to change all date fields on the selected sections to use 4-digit years. Studio adjusts the fields input length if necessary, but makes no other changes to the field.
Check DAL Syntax	Check the Change DAL calculations to DAL scripts field.
Attempt to Fix Script Error	Check this field if you want Studio to fix common DAL script errors.

Field	Description
Change Calculations to Execute after this Field Only	Check this field if you want the system to modify the DAL calculations so that they only execute after the current field.
Change Field Names	Enter the current name of the field in the Old Name field and the name you want to change to in the New Name field.

Note Check the Match Case field if you want Studio to consider upper- and lowercase letters when it searches for the field names to change.

Once you have selected the options you want, click Next to go to the Font Conversions window.

Font Conversions

The Font Conversions window lets you make changes that apply to several fonts at one time.

Font Conversion Options	
X 1) @	
Calculate Coordinates Retain top and bottom coordinates	
Retain top, adjust bottom coordinates Retain bottom, adjust top coordinates Change Font ID (Original on left)	
Import	Import

Use these fields to indicate changes you want made to the fonts used in the sections:

Field	Description
Calculate Coordinates	To have Studio recalculate font coordinates, click the appropriate option. Click Retain Top and Bottom Coordinates if you do not want Studio to recalculate font coordinates. Click Retain Top, Adjust Bottom Coordinates if you want to keep the top coordinates. Click Retain Bottom, Adjust Top Coordinates if you want the text would retain its current baselines.
Change Font ID	Enter the current ID of the font in the Old ID field and the ID you want to change to in the New ID field.

Once you have selected the options you want, Click Next to go to the General Conversions window.

General Conversions

Use the General Conversions window to make general changes to the sections you selected.

General Conversion Options	
X () Ø	
Field Rules	
Update Field Rules from Section (FAP)	
Update Field Rules from Extract Dict	tionary Update Field Rules from Extract Dictionary
Static Text	
Combine adjacent text labels	
Combine overlapping text labels	
Text Area	
Broaden text area to prevent word wrap	
Color Options	
Return to default colors	
Print in color	Print in color
Miscellaneous	
Remove Revision History	
Remove Task Comments	
Change Context Tag	
Original Context	Context to be changed
New Context	
Object Type	(any)
Object Name	
Change Redact Tag	
Original Redact	Redact to be changed
New Redact	
Object Type	(any)
Object Name	
Map Alternate Characters Original on le	ft)
Import	Import

Use these fields to indicate general changes you want made in the sections:

Field	Description
Update Field Rules from Section (FAP)	Click this field to update the field rules based on the rule assignments in the section.

Field	Description
Update Field Rules from Extract Dictionary	Click this field then click the Options button to display the Update Options from Extract Dictionary window. This window lets you further define how to update field rules based on the contents of your extract dictionary.
	Update Field Rules from Extract Dictionary
	1) 10
	•
	Use Extract Dictionary Rule
	Mask I
	Rule Required
	For instance, you can choose to use the extract dictionary rule or update various parts of the rule definition, such as the offset, length, mask, rule assignment, data, or whether it is required.
Combine Adjacent Text Labels	Check the Combine Adjacent Text Labels field to combine text labels that are very close into one label. Studio combines text labels if the text labels use the same font and have the same baseline. If the text areas are located closer than half the width of a space character, Studio joins the labels without a space.
	If the labels are equal to or more than half the width of a space character apart, but less than or equal to the width of a space character, Studio joins the labels with a space between them. If the labels are located more than a space apart, Studio does not combine them.
Combine Overlapping Text Labels	Occasionally, conversions from print streams produce text labels which overlap. Check the Combine Overlapping Text Labels field to have Studio correct these kinds of problems.
	Note: When working with a section, you can use the Format, Convert to text label or Convert to text area options to combine text areas and labels you select on a specific section. This option is more often used to when print files are converted to FAP files and each character is turned into a separate label.
Broaden Text Area to Prevent Wrapping	Check this option to enlarge your text areas to prevent the text from wrapping.
Return to Default Colors	Check the Return to Default Colors field to reset all colors on the selected sections to the default colors.
Print in Color	Check the Print in Color field if you want Studio to make all colors printable for the sections you selected. This option, in effect, checks the Print in Color field on each objects Color Selection window.
Remove Revision History	Click this box to delete all revision history.
Original Redact	Select the redact tag to be replaced with the new redact tag. Redact tag can be selected from the redact tag pick list or keyed.
	Note: Original Redact setting does not support wildcards or partial matches. If you want to change tag2 to tag3, you would need to specify tag1,tag2 in the Original redact setting and tag1,tag3i in the New Redact setting.

Field	Description
New Redact	Select the desired redact tag from the redact tag pick list or key the desired redact tag. This Redact tag will be assigned to the specified object types and object names in the selected Sections
Object Redact	Select the desired object (field, graphic, signature) from the object type pick list to have the new redact tag assigned to those objects in the Section(s) being converted. Leave blank to have the new redact tag applied to fields, graphics and signatures in the Section(s) being converted.
Object Name	Specify the names of the field, graphic and or signature objects to assign the new redact tag to.
Map Alternate Characters	Enter the numeric value (0-255) of the current character of the font in the Old Character field and the numeric value of the character you want to change to in the New Character field. For instance, using code page 1004, if you want to change <i>a</i> to <i>ä</i> , you would enter 132 in the Old Character field and 133 in the New Character field. Note: You can test the characters by pressing the ALT key and typing the numeric value using the numeric keypad.
	Typically, you would use this option to replace a character which exists in one code page, but not in another. For instance, some code pages include typographical quotation marks (sometimes called smart quotes) while others do not. You can use this option to replace the typographical quotation marks with standard quotation marks (").

Once you have selected the options you want, click Next to go to the Convert Files and Finish window. See *Changing Multiple Script Files* on page 741 for more information.

CONVERTING BITMAP FILES INTO LOG FILES

Use this conversion option to convert bitmap (BMP) files into Documaker graphic format (LOG) files.

Follow these steps to convert bitmap files into LOG files:

1. Choose the Convert Bitmap Files to Graphic Files option on the Choose the Conversion Type window. The Choose Files to Convert to Graphics (LOG) window appears:

Files to convert	/pe: Bitmap to Graphic		
	Old Name	New Name	
	Browse De	elete Row Clear Grid	
		and and	

- 2. Click Browse to select the files to run the conversion on.
- 3. Once you have selected the files you want to change, click Next to go to the Convert Files and Finish window. See *Changing Multiple Script Files* on page 741 for more information.

CONVERTING SYSTEM FILES INTO XML FILES

Use this option to convert the following Documaker system files into XML files:

- Application Definition (BDF) files
- Form List (GRP) files
- Form (FOR) files
- Section (FAP files
- Template (TPL) files

Follow these steps to convert system files into XML files:

1. Choose the Convert Files to XML Files option on the Choose the Conversion Type window. The Choose Files window appears

Choose File	s				×
Brow libra	the file type control to choo wse button to select the files ary. Any additional resource ording to the Run date select in file type: Section (FAP)	to convert. The resource s that need to be loaded fr tion specified below.	s you select will	be loaded from the	[
Files to c	onvert			0 files listed	
Source	Old Name	New Name	Version	Revision	
•	Browse	Delete Row	Clear Grid	×	
Use lor	ng name			- 1	
		< Back Next	> Car	ncel Help	

- 2. Select the type of conversion you want to run, then click Browse to select the files to run the conversion on.
- 3. Once you have selected the files you want to change, click Next. The Choose XML Filter Options window appears:

information on how the options bell	he check boxes below to filter the XML. Click the Help button for more ow affect the resulting XML file.	lting XM
XML Options		
9 9		
Turn All On		
Definitions		
Global Recipients		
Form Lists		
Forms		
Forms		
Recipients		
Field Attributes		
DAL Triggers		
Sections		
Sections		
Fields		
Text Labels		
Text Areas		
Graphics		
Fonts	☑	
Bules		

- 4. Use this window to add or omit elements you want in the XML file, then click Next.
- 5. Click Next to go to the Convert Files and Finish window. See *Changing Multiple Script Files* on page 741 for more information.

CONVERTING DOCUMERGE RESOURCES

Use this option to convert Documerge resources into Documaker resources. You can extract Documerge forms from a VLAM EDL backup file, determine which printer resources the forms use, and convert the forms into Documaker section (FAP) and form (FOR) files.

You can also use the Rulebase report to transfer form sort order and recipient information from Documerge to Documaker.

Follow these steps to convert Documerge resources into Documaker resources:

1. Choose the Documerge to Documaker Tasks option on the Choose the Conversion Type window. The Documerge to Documaker Tasks window appears.

cumerge to Documaker Tasks	task from the list below.	
Task EDL Complexity Estimate Printer Resource Requirements Extract EDL forms from VLAM Backup Process Rulebase Report	Evaluate some or all of the forms in your EDL to determine which forms are Simple, Moderate or Complex. Results can be saved, e-mailed or printed.	

2. Select the task you want to perform. You can choose from these tasks:

Task	Description
EDL Complexity Estimate	Choose this task to evaluate the forms in your EDL to determine which forms are simple, moderate, or complex. You can save, email, or print the results.
Printer Resource Requirements	Choose this task to create a report that shows which AFP or Metacode printer resources are required to convert your APF or Metacode forms into Documaker section (FAP) files. These resources can include fonts, IMG files, FRM files, page segments, and so on.
Extract EDL Forms from VLAM Backup	Choose this task to extract EDL forms from a VLAM backup file. The forms can be Metacode, AFP, or DCD forms. Studio extracts the forms and places them in the location you specify. You can then convert the result into section (FAP) files.
Process Rulebase Report	Choose this task to have Studio use a Documerge Rulebase Report to create Documaker resources, such as forms, form lists, recipients, and categories.

Click Next. If you choose any of the first three tasks, the Select VLAM Backup File and Forms to Report On window appears.

Select	VLAM Backup File and Forms	to Report	On	×
<i>[</i>]	have selected the VLAM file, the for	ms that exist in e forms and use	e EDL Complexity report from. After you the VLAM file are shown in the list box to e the controls to list these forms in the list : VLAM backup file and analyzed.	
	VLAM backup file:			
	Forms in the VLAM backup file:		Forms to report on:	
		> >> <		
	_	< Back	Next > Cancel Help	_

Click Browse to select the VLAM backup file, then choose the forms you want to report on.

3. Once you have finished, click Next to go to the Convert Files and Finish window. See *Changing Multiple Script Files* on page 741 for more information.

The Process Rulebase Report

The Process Rulebase Report wizard reads a Documerge-generated Rulebase Report and an EDL INI file to produce form (FOR) and form list (GRP) resources, as well as updating the application definition file (BDF) with new Recipient and Category values. The Rulebase report also contains a bin, or paper tray, name associated with a Documerge form. Documaker Studio reads the bin name from the Rulebase report. You associate bin names with Metacode paper tray numbers 1 through 9. When this association is made, the wizard sets the paper tray number for each form (FOR) resource. Studio does not automatically update the INI file with the tray names.

Note When it encounters the occurrence of the same DTN in multiple structure tables, Studio uses the print options from the first occurrence of the DTN are used for all forms with that DTN.

If you chose the Process Rulebase Report task, the Choose Rulebase Report window appears.

Choose Rulebase	Report	×
Select a Rule be used to c and Categor	base Report and an EDL INI file. These fil eate Documaker resources such as Forms es.	es will be read and the information will (FORs), Form Lists (GRPs), Recipients
Rulebase Report:		
EDL INI File:		-
		Enable tracing
	< Back N	lext > Cancel Help

Click Browse to select the Rulebase report you want to process and the EDL INI file to use.

The Process Paper Trays window is where you set paper tray, or bin, information

Print Types		Print Type - 1	ŒR		
Metacode		4			
Jø XER		🗢 Tray Options		1	
		Tray1		MAIN	
		Tray2		AUX	
		Tray3		TRAY3	
		Tray4		TRAY4	
		Tray5		TRAY5	
				5	records lis
Set Tray?		Bin Name		Tray Number	
X	MAIN		Tray 1		
X	TRAY3		Tray 3		
X	AUX		Tray 2		
X	MAI		Tray 1		
X	TRAY4		Tray 4		

Note You must have rights to update the application definition file (BDF) to successfully process the Rulebase report.

Once you have finished, click Next to go to the Convert Files and Finish window. See *Changing Multiple Script Files* on page 741 for more information.

CHANGING RECIPIENT INFORMATION

Use this option to change recipient information in the resources you specify.

To change recipient information, follow these steps:

1. Choose the Change Recipients option on the Choose the Conversion Type window. The Choose Recipient Resources window appears.

Use Entire Library			Browse
Source	File Name	File Type	
		Delete Row	Clear Grid

- 2. To change recipient information throughout the entire library, just click Next. If you want to choose specific application definition (BDF) files, remove the check from the Use Entire Library field, then click Browse to select the BDF files.
- 3. Click next when finished. The Change Recipient window appears.

4	Change Recipient		×
Г	Recipient Options		
	() 🕖		
	 Recipient Names 		
	Original Recipient		
	Replacement Recipient		
	Copy Count	Eligible	
-		< Back Next > Cancel	Help

4. You have these choices on the Change Recipient window:

То	Then
Substitute one recipient for another	Select the recipient you want to replace in the Original Recipient field. Then select the recipient you want to change to in the Replacement Recipient field.
Replace one recipient with a new recipient	Select the recipient you want to replace in the Original Recipient field. Then enter the name of the new recipient in the Replacement Recipient field.
Delete a recipient from the library	Enter the name of that recipient in the Original Recipient field. Leave the Replacement Recipient field blank.
Add a recipient to the library	Enter the name of the new recipient in the Replacement Recipient field. Leave the Original Recipient field blank.

- **Note** When you make an entry in the Replacement Recipient field, Studio adds a Copy Count field so you can enter the appropriate copy count.
 - 5. Once you have selected the recipients, click Next to go to the Convert Files and Finish window. See *Changing Multiple Script Files* on page 741 for more information.

IMPORTING XML SCHEMAS INTO THE XDD

You can import an XML schema (XSD) into an extract data dictionary (XDD). From the schema, the XDD recognizes parent and children elements and also inherits any attributes as children.

Importing an XML schema to populate the XDD provides these benefits:

- Lets you build the XDD before you have sample XML input data
- Helps reduce errors when creating the XDD
- Ensures compatibility with the input file structure
- · Makes it easier to synchronize changes to the input file schema
- Helps reduce mapping errors as XPaths are easily derived from XML schema

Note For the conversion, Studio uses the XSL translation contained in the XSD2XDD.XSL file. This file is located in the directory that contains the DMStudio.exe file, usually c:\fap\dll. You can customize this file if needed to handle complex source XSD files, but your changes must conform to Documaker's XDD standards.

To import an XML schema, follow these steps:

1. Choose the Convert an XSD File to a Data Extract option on the Choose the Conversion Type window. The Convert XSD to XDD window appears.

Convert XSD to XDD X
Please select your source XSD and your target XDD. To create a new XDD file from the conversion, simply input a name for the XDD. To import into an existing XDD, push the file browse button and select an existing XDD.
Source XSD File:
Target XDD File:
Generate DocumakerXDD.XSD
Documaker provides a standard XSL translation file that can handle most XSD to XDD conversions. If you visit to provide some custom processing of your XSD, you may override the XSL file below. Please note, Documaker Data Extract Manager will not allow custom fields that are not part of the XDD format. You can find a copy of the Documaker XDD XSD in the DMStudio.EXE directory.
Use Custom XSL Translation
XSL Translation File:
< Back Next > Cancel Help

- 2. Click Browse to select the source XSD file. Enter the name you want to assign to the target XDD or click Browse to select an XDD file. Studio lets you use a custom XSL translation file if necessary. Click Next when you finish specifying the files to use.
- 3. The Convert Files and Finish window appears. See *Changing Multiple Script Files* on page 741 for more information.

Keep in mind...

- Studio imports all XDD fields as strings.
- Studio assigns the AnyToAny rule to these fields in the XDD
- Documaker does not validate the XSD file during processing

CHANGING MULTIPLE SCRIPT FILES

Use this option to validate script syntax and attempt to fix script errors for the resources you specify.

To validate script syntax and attempt to fix script errors, follow these steps:

1. Choose the Change Multiple Scripts option on the Choose the Conversion Type dialog. The Change Multiple Scripts dialog appears.

			Browse
Source	File Name	File Type	
		Delete Row	Clear Grid

2. Click the Browse button. Select the script files to be validated and fixed.

То	Description
Delete Row	Click the row to be deleted; then click the Delete Row button
Clear Grid	To remove all entries on the dialog, click the Clear Grid button.

3. Click Next. The Script Options dialog displays

Script Options		×
Change Script Options		
1) 10		
DAL scripts and routine libraries		
Check DAL syntax	Ø	
Attempt to fix script error		
	< Back Next > Can	cel Help

Field	Description
Check DAL syntax	Choose this option to validate script syntax. Discovered syntax errors will be shown in the output window.
Attempt to fix the script error	Choose this option to scan for a few common scripting mistakes that can be corrected with simple substitution and/or deletion. Examples of script errors that can be fixed are:
	 Misplaced ELSE or END statements: When removing an IF statement, it is easy to forget to look for the corresponding ELSE or END statements and remove those as well. During this check, i this syntax error is discovered, the system will remove the offending statement and then reconfirm the modified script syntax
	 Comment asterisk not occurring in the first column: When used to designate a comment, the asterisk must occur in the first character position on the line. (Hint: To have a comment anywhere on the line, you should use // instead.) If the syntax checking discovers an asterisk starts a line, but not in the first column, the asterisk will be moved to the first column. The system will reconfirm the modified script syntax after the change

Note You should always manually verify the changes made to scripts when performing Change Multiple Scripts to ensure that the expected logic flow was not changed. Examine the output window after the operation to determine those scripts that were changed. If you find a script was modified incorrectly, you can manually correct the problem in the scripts (Triggers) manager.

Once you have selected the options you want, click Next to go to the Convert Files and Finish window. See *Finishing a Conversion* on page 743 for more information.

FINISHING A CONVERSION

On the Convert Files and Finish window you can choose to check files into the workspace library or place them into a directory.

Check files into library (recommended)	
Library Settings	
Effective Date	1/1/1980
 Description 	Initial check in.
Mode	
Status	
Class	
Project	
Disk Settings	
Section (FAP)	C:\FAP\DLL\DMS1\forms\

By default, Studio checks the new files into the library for you. You can change this option if necessary. On this window you can also make or change the entries in the following fields:

Field	Description
Effective Date	Typically you would accept the default effective date. The default effective date is set up when the workspace is created. You can enter another date for the converted files if necessary. Documaker uses the effective date to determine which version/revision combination of a resource is selected at processing time. The effective date of a selected resource is always less than or equal to the Documaker processing date.
Description	(Optional) Change the default description if necessary. You can enter up to 100 characters.
Mode	(Optional) Enter a mode if you are using this library feature and you want it to apply to all converted resources. Mode cannot be used if the Projects option is activated for this workspace.
Status	(Optional) Enter a status if you are using this library feature and you want it to apply to all converted resources. Status cannot be used if the Projects option is activated for this workspace.
Class	If the Projects option is activated for this workspace, select a class code or blank from the list. If the Projects option is not turned on, optionally enter a class code if you are using this library feature and you want to apply it to all converted resources.

You define modes, statuses, classes, and projects using the Manage, Settings options. For instance, you could set up modes to denote milestones in the development process such as Development, Testing, and Production. For more information, see *Defining Mode, Status, Class, and Project Options* on page 646.

Field	Description	
Project	If the Projects option is turned on for this workspace, select a project code or a value of blank from the list. If the Projects option is not turned on, optionally enter a project code if you are using this library feature and you want to apply it to all converted resources.	
Save Files to Disk at Location	This field is only available when the Check File into Library box is not selected. Files from a conversion that could be saved to this location are FAP files (sections) and LOG files (graphics).	
Form (FOR)	This option is only available when the Check File into Library box is not selected. Files from a conversion that could be saved to this location are FOR files (forms).	
Graphic (LOG)	This option is only available when the Check File into Library box is not selected. Files from a conversion that could be saved to this location are LOG files (graphics). Use this option to specify the location for LOG files when LOG files are not stored in the same folder as FAP files (sections).	
Save the FXR	This option is only available when a normalized AFP or Metacode file, where the fonts are embedded in a print stream, is being converted.	
You define modes statuses classes and projects using the Manage. Settings options. For instance, you could		

You define modes, statuses, classes, and projects using the Manage, Settings options. For instance, you could set up modes to denote milestones in the development process such as Development, Testing, and Production. For more information, see *Defining Mode, Status, Class, and Project Options* on page 646.

Click Finish to convert the files.

Chapter 16

Producing Reports

The Reports option in the Workspace tree lets you print a variety of system reports. A wizard guides you through the process of selecting the information you want to appear on the report.

Studio displays the result and gives you the option of viewing it on your screen, sending it to your printer, saving it in HTML format, or emailing the report.

This chapter includes the following topics:

- Overview on page 746
- Printing Reports on page 749
- Printing a Finishing Report on page 755
- Printing the Documerge Field Report on page 759

OVERVIEW

When you choose Reports from the Workspace tree, the Reports window appears, as shown here.

Reports X
•) 0
Application Definition Report
Extract Report
Field Report
Finishing Report
Font Usage Report
Form Field Report
Form List Report
Form Readability Statistics Report
Form Report
Form Validation Report
Impact Report
Lookup Tables Report Paragraph Selection List Report
Registry Report
Section Readability Statistics Report
Section Report
Section Usage Report
Template Report
Trigger Report
User Security Report
Analization Definition (2.0
Application Definition 💿 🕥
The Application Definition Report lists the Form Lists,
Recipients, Categories and Transactions defined in selected
the Application Definition (BDF) file.
< Back Next > Cancel Help

You can choose from these reports:

Report	Description
Application Definition Report	This report includes Form Lists, Recipients, Spot colors, Transaction Codes, Categories, Mobile Context Tags, and Redact Tags, defined in the Application Definition (BDF) file.
Extract Report	This report provides information about the records contained in the extract dictionary (XDD) file. This includes the level, name, offset, length, rule, format, FDB, and data. This report compares the record names in the specified extract file against the record names in the workspaces' FDB file and reports whether the record exists in the FDB.
Field Report	This report provides information about the records contained in the common field dictionary. This includes the field's name, type, format, font ID, length, attributes, and XDD.
Finishing Report	 This report identifies objects that need to be reviewed or completed before the object is considered completed. The report shows comments associated with a form, section, field, recipient, or trigger. It also tells you if the following items are undefined: Triggers are not found in the trigger library Fields are not found in the FDB Graphics are not found in the library Recipients are not defined in the global recipient list in the BDF file See <i>Printing a Finishing Report</i> on page 755 for more information.
Font Usage Report	This report provides information about the fonts used for the sections stored in the library. You can create the report for all sections or just for those you select.
Form Field Report	This report provides information on the fields contained in the forms you select. This includes the field name, associated rules and their parameters, and the format mask.

Report	Description
Form List Report	This report provides information for the form list files you select. This includes the form name, form description, DEC options, pre-selected options, file names, triggers, and regional date processing (RDP) rules.
Form Readability Statistics Report	This report shows readability statistics and Flesch score information for the sections that comprise the forms you select. This includes character, sentence, and syllable counts for the text areas contained in the sections defined in the form as well as averages for words per sentence and characters per word,
Form Report	This report provides information about the sections in the forms you selected. This includes information about the sections (name, options, size, orientation and number of pages) and the fields contained in the section (name, rule name, format mask, and rule parameters). The report also provides form section options, such as recipient names, copy counts, and section rule names and parameters.
Form Validation Report	 This report provides validation information about the sections defined in the forms you selected. This report can tell you Whether sections referenced in the form (FAP files) exist in the library If the sections defined in the form have assigned recipients Any sections with assigned recipients and a copy count of zero Any sections that contain text areas or multiline text fields marked as Can Grow, but the Can Grow attribute is not specified at the form level
Impact Report	This report provides information based on the selected object type (form list, form, trigger, section, and so on) and which areas would be affected if that object were changed or deleted. For example, if you select a form list file, this report lists references to that form list file in the application file (BDF).
Paragraph Selection List Report	The report provides information about the selected Paragraph List files. It includes the Paragraph List file name and description, the names and descriptions of the paragraphs contained in the paragraph list file and Triggers (if any) assigned to the paragraphs in the paragraph list.
Registry Report	This report provides information about Studio's registry settings. This report may be requested by Support.
Section Readability Statistics Report	This report shows readability statistics and Flesch score information for the sections you select. This includes character, sentence, and syllable counts for the text areas contained in each sections as well as averages for words per sentence and characters per word.
Section Report	This report provides information about the sections you select. This includes information about the margins (top, bottom, left, and right); paper (height, width, size, and orientation); section rules (rule name and parameters), fields (name, type, format, font ID, length, rules, and style), graphics (name, graphic, and style) and the fonts used (font ID and description).
Section Usage Report	This report lists all of the sections associated with the application definition (BDF) file you selected. The report lists all sections in use and sections which are not directly referenced on any form.
Template Report	This report provides information about the template including options (name, description, size, and orientation), the sections defined in the template (name, options, size, orientation, number of pages, and protect template item flags), and recipient and copy counts for the sections in the template.
Trigger Report	This report shows which DAL triggers are referenced and which are not referenced in the application definition (BDF) file you selected.
User Security Report	This report shows user security rights.

Report	Description
Documerge Field Report	Only available in Documerge Studio. This report shows you information about the Documerge resources you are maintaining. For more information, see <i>Printing the Documerge Field Report</i> on page 759.

Note Studio writes these reports using the HTML 4.01 standard so the report and all formatting can be in a single file. All reports are validated for HTML and CSS compliance and each style is written as CSS embedded in the header. If you are comfortable with HTML, you can edit the style in the report files you generate to suit your needs.

PRINTING REPORTS

The following steps take you through the steps for printing reports. Section reports are used as an example.

1. Highlight the type of report you want to print and choose the report style you prefer.

Reports	×
¢ Ø	
Application Definition Report Extract Report Field Report Finishing Report Form List Report Form List Report Form List Report Form Report Form Report Form Report Form Validation Report Impact Report Lookup Tables Report	
Paragraph Selection List Report Registry Report Section Readbility Statistics Report Section Readbility Statistics Report Section Usage Report Template Report Trigger Report User Security Report	
Section Reports	$\circ \circ$
The Section report provides information sections. This includes information abo bottom, left and right); paper (height,	out the margins (top, 👘
< Back Next >	Cancel Help

The differences in the styles are the fonts, borders, and shading used. Keep in mind styles can be interpreted differently by different browsers, so your results may differ. Here are some examples.

	Source: Q1ADDR v1.5 1/1/1980	
Elegant	Margins (FAP): Top Bo 0 0 Paper (FAP): Height Width	
Ligun	26400 20400 Rules: Rule Name SetOrigin	Source: Q1ADDR v1.5 1/1/1980
Default		Margins (FAP): Top B 0 0 Paper (FAP):
		Height Width 26400 20400
Plain	Source: Q1ADDR v1.5 1/1/1980	Rules: Rule Name
	Margins (FAP): Top Bottor 0 0	SetOrigin
	Paper (FAP): Height Width	
	26400 20400 Rules:	
	Rule Name SetOrigin	
	can set up a default style using the system og HTML Style Options for Reports on pa	

2. Click Next. The Choose Files window appears.

urce	File Nar	ne	Ver/Rev/EffD
urce	The No.	iic.	Ver/Kev/End

3. Use this window to choose the files you want to include on the report.

Click	То
Select All	Produce a report that contains an entry for each applicable item. When you click Select All, the Report Options window appears. Go to step 4 on page 753.
Browse	Select the specific files you want included on the report. When you click Browse, the Open Files window appears. Use the Ctrl key to select multiple files. See <i>Selecting Files</i> for more information.

Selecting Files

When you choose Browse, the Open File window appears:

	ኞ Open f	lie.		п								_ 🗆 🗙	к
-	Editor F	Filter	Preview		1					35 of 3		ОК	
	Conter			Name	Туре	Ver		Effective Date			4—	Cancel	
	e Conter			AMERGEN MARI				1/1/1980		MNOF		Cancer	l s
		caono		AMERGEN RV	FAP			1/1/1980		SKYW		Browse	۱Ľ
these tabs to select				APPLIC11	FAP			1/1/1980		MWN			լի
files you want to				APPLIC21	FAP			1/1/1980		SIB		Open as read-only	-0
ude on the report.				AUTO 25 TO 50				1/1/1980		SKYW		reau-only	
ude on the report.				AUTO OVER 50		00001	00001	1/1/1980		SKYW			ı İv
				AUTO UNDER 2	5 FAP	00001	00001	1/1/1980	5	SKYW		New	
				AUTORTE	FAP	00001	00001	1/1/1980	5	SKYW			1
				BILL INFO	FAP	00001	00002	1/1/1980	1	MWN			
				ENTRY	FAP	00001	00001	1/1/1980	5	SIB			
				MEDBODY1	FAP	00001	00001	1/1/1980	5	SUSA			
				MEDBODY2	FAP	00001	00007	1/1/1980	5	SUSA			
				MEDFOOT1	FAP	00001	00001	1/1/1980	5	SUSA			
				MEDHEAD1	FAP	00001	00001	1/1/1980	5	SUSA			
				NEWTBLLKUP	FAP	00001	00001	1/1/1980	[DOCU			
				SIGNATURE1	FAP	00001	00001	1/1/1980	ſ	MNOF			
				SUM101	FAP	00001	00001	1/1/1980	5	SIB			
				SUM11	FAP	00001	00001	1/1/1980	5	SIB	•		
				•						Þ			

There are several ways to select the files to include on the report:

Editor	List all of the file types you have to select from. To narrow the list to a specific file type, click that type in the list.
	For instance, in the example, Forms is Selected. If you wanted to choose from a list of sections, you would click Sections and select the sections you want to include on the report.
Filter	Use the filter fields to set criteria that narrows the list of items. Once you have the criteria set, click Search Now to process the search criteria.
Preview	See a preview of the highlighted item.

Whether you use the Editor or Filter tab, once you select your files, click Ok to return to the Choose Files window.

	Files page to choose files to run your report against. : : Sections	×		Use these buttons to modify your file selections.
Source		Ver/Rev/EffDate		
	AMERGEN MARKETING	v1,41/1/1980		
m	AUTO OVER 50	v1.1 1/1/1980		
	AUTO UNDER 25	v1.1 1/1/1980		
Bro	wse Select All Delete Row	Clear Grid		
			1	
	< Back Next > Canc	el Help		

Click Clear Grid or Delete Row to modify the file selection you made on the Open Files window. Click Next to proceed to the Report Options window.

4. Once you have selected the files you want to include on the report, click Next. The Generate Report window appears.

atus	Tasks				
	AMERGEN MARKETIN	G			
	AUTO OVER 50				
	AUTO UNDER 25				
gress					
					-

5. On the Report Options window, click Finish to generate the report. Studio displays the report on your screen. Here is an example of a Section report:

I Section Report						d ▷ x
		Secti	on			-
Source: AME	RGEN MARKE	TING.FAP v1	.4 1/1/19	980		
Margins (FA	Ps):					
Тор	Bottom		Left		Right	
400	0		1800		1800	
Paper (FAPs):					
Height	Width	Size		Orienta	tion	
2527	17408	Custom		Portrait		
		Used G	aphic			
Name	Current G				Style	
Section Report: A					I	

You can right-click within the report to choose from these options:

Option	Description
Clear Contents	Clears the contents of the report window.
Select All	Select all of the text within the report.
Сору	Copy all selected text within the report, so you can paste it into another application.
Save As	Save the report as an HTML file.
Send To	Send the report as an attachment in an email.
Print	Print the report.
Print Preview	Show the report in the Print Preview window.

PRINTING A FINISHING REPORT

Use the Finishing Report to see a list of the remaining tasks that apply to the forms, sections, paragraphs, and paragraph lists you chose to appear on the report. These tasks can include the following:

- Task comments
- Undefined fields
- Undefined graphics
- Undefined recipients
- Undefined triggers
- Context tags

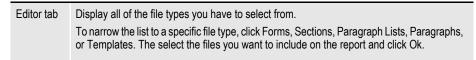
Note These tasks can originate in Studio or the Documaker Add-In for Word.

Each task that appears on the report should be reviewed as part of your normal daily procedures. Follow these steps to print this report:

- 1. Choose Manage, Reports, and then choose the Finishing Report option.
- **Note** You can also access the report from the Workspace toolbar by clicking Reports and choosing the Finishing Report option.
 - 2. Choose from Default, Elegant, or Plain for the style of the report and then click Next. The Choose Files window appears.
 - 3. Use this window to choose the files you want to include on the report.
 - Click Select All to produce a report that contains an entry for each section, form, paragraph, paragraph list, and template in the workspace's library. When you click Select All, the Report Options window appears. Go to step 4 on page 753.
 - Click Browse to select the specific files you want included on the report.

When you choose Browse, the Open File window appears. On the Open File window, there are several ways to select the files to include on the Finishing report:

Click the To



Click the To

Filter tab Create a report that only shows files which have a remaining task activity. In the Type field, select Task. In the Task Type field, select the option for which you want to produce the report. **Report Options** ٠ Finishing Report Options Include Fields Yes Include Graphics Yes Include Triggers Yes Include Recipients Yes Include Task Comments Yes Include Context Tags Yes Click Search Now to process the search criteria. Click Ok to accept the search results.

Whether you use the Editor or Filter tab, once you select your files, click Ok to return to the Choose Files window. Click Next to go to the Report Options window.

4. On the Report Options window, select the content you want to appear on the Finishing Report. Your choices include undefined fields, undefined graphics, undefined triggers, undefined recipients, and task comments.

eport Options	
0	
Finishing Report Options	
Include Fields	Yes
Include Graphics	Yes
Include Triggers	Yes
Include Recipients	Yes
Include Task Comments	Yes

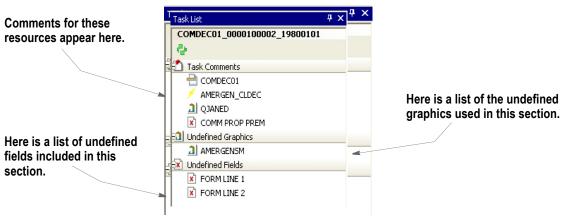
5. Click Next after you have made your selections. Studio creates the Finishing Report.

Using the Finishing Report

Here is an example of a Finishing Report that includes one file:

Finishing Report	
*FDB = C:\FAP\mstrres\amergen\DEFLIB\F	DB.DBF.DBF
Source: COMDEC01.FAP v1.2 1/1/1980	
COMDEC01	
Section Name: COMDEC01	
Comment: This is a task comment on the	e COMDEC01 section.
Field Name: FORM LINE 1 Task: Field reference not found in the Co	ommon Fields database.
Field Name: FORM LINE 2 Task: Field reference not found in the Co	ommon Fields database.
Graphic Name: AMERGENSM Task: Graphic reference not found in libr	ary.
Trigger Name: AMERGEN_CLDEC Comment: This is a task comment on the COMDEC01 section.	e AMERGEN_CLDEC trigger assigned to a text area on the
Graphic Name: QJANED Comment: This is a task comment on the	e QJANED logo inserted into the section COMDEC01.
Graphic Name: AMERGENSM Comment: This is a task comment on the	e AMERGENSM logo inserted into the section COMDEC01.

Notice that the finishing activities on the example Finishing Report match those on the task list.



The report presents the information differently, but the information is the same. In the report, the task comments for a given resource appear first. Undefined item information for that resource appears next. Comments associated with objects that are inserted into the resource then appear.

Note See Creating an Implementation Finishing Task List for more information on an alternative way of displaying remaining finishing activities.

For task comments, you should open or check out the resource (section, form, paragraph, paragraph list, or template) review the comment and take the appropriate action.

This table shows you what to do with the various undefined items that can appear on the Finishing Report.

ltem	Add undefined
Undefined recipients	Recipients to the Application Definition (BDF) file.
Undefined fields	Fields to the Common Fields dictionary.
Undefined graphics	Graphics to the library.
Undefined triggers	Triggers to the SETRCPTB.DAL file.

Note You can add the undefined item as stated or select a previously-defined element from the appropriate location.

PRINTING THE DOCUMERGE FIELD REPORT

Use the Documerge Field report while in Documerge Studio to see information about the Documerge resources you are maintaining. For each field, this report shows you the following information:

Column	Description
Field	The name of the field.
Туре	The field type, either BPSD or VSD (Variable Space Definition, including multiline text fields).
Length	The length of the field.
Replacement	The replacement character used. This character fills space until replaced by variable data.
Multidata	Indicates the number of line feeds between the lines of variable data. An N indicates the system only chooses one data item. A number from zero (0) to nine indicates the number of lines the system inserts between data items.
Line End	The character that indicates a line end in a multiline text field. The default is [.
Delete	Tells you whether the system will delete the tag value after it is used. A Y indicates the data will remain available to Documerge for reuse in other occurrences of the field in the document package (mergeset) after being used once. An N indicates the data will be used once and then deleted. A one (1) indicates the system resets the value of the field, uses the data from the first occurrence, and does not delete the tag data. An R indicates the system resets the value of the field, uses the data from the first occurrence of the field, and then deletes the tag data.
Mandatory	Tells you whether the field is mandatory.
Generate	Tells you whether the default replacement characters are generated or whether the replacement characters are user-defined.

This report reads a specified Common Fields dictionary to display field (tag) information, therefore your workspace must utilize a Common Fields (FDB.DBF) file to run this report. To print this report, choose the Manage, Tools, Reports option, then select Documerge Fields.

Here is an example:

🔮 Documerge Field Report								٩
	Fi	elds						
Source: C:\FAP\mstrres\normaliz	e metacode\DEFLIB\FDB.DBF							
Name	Туре	Length	Replacement	Multidata	Line End	Delete	Mandatory	Generate
ADDENDUM_NO	BPSD - Single line	10	@	N	[N	No	Yes
ADDR_CITYSTZIP	BPSD - Single line	40	0	N	E	N	No	Yes
ADDR_LINE_1	BPSD - Single line	10	0	Ν	[Ν	No	Yes
ADDR_LINE_2	BPSD - Single line	40	0	N	[Ν	No	Yes

Chapter 17

Handling Fonts

A font is a collection of letters, symbols, and numbers which share a particular design. Studio provides a font manager which lets you organize sets of fonts for section creation and printing needs. This chapter provides general information on font concepts and types.

For general information on font concepts and types, see the Fonts Reference Guide. This chapter provides information about setting up fonts using Studio's Font manager. Make sure you have the needed rights to perform the function, otherwise, contact your System Administrator to update.

This chapter includes the following topics

- Overview on page 761
- Defining Basic Font Properties on page 762
- *Defining Font Dimensions* on page 772
- Importing Fonts on page 774
- **Note** The Documaker system also includes several utilities you can use to work with fonts. These utilities are mentioned where appropriate throughout this chapter and are discussed in detail in the Utilities Reference.

OVERVIEW

When you choose the Manage, System, Fonts, option, here is an example of the Font manager window that appears:

al DEFLIB\rel113sm.FXR			4 ⊳
Font Manager 🛛 📍	Properties	Ļ	Font Sample
10006 Arial Narrow 6 PT 10008 Arial Narrow 8 PT 10010 Arial Narrow 10 PT	Font Properties - :	10020 Arial Narrow 20	Windows Sample ABCDabcd
10012 Arial Narrow 12 PT 10014 Arial Narrow 14 PT 10016 Arial Narrow 16 PT	 General Propertie Font ID Description 	s 10020 Arial Narrow 20 PT	
10018 Arial Narrow 18 PT 10020 Arial Narrow 20 PT 10106 Arial Narrow Bold 6 PT 10109 Arial Narrow Bold 9 PT	Description Screen Properties Family		
10108 Arial Narrow Bold 8 PT 10110 Arial Narrow Bold 10 PT 10112 Arial Narrow Bold 12 PT 10114 Arial Narrow Bold 14 PT	Typeface Point Size Style	Arial Narrow 20 Upright	
10116 Arial Narrow Bold 16 PT 10118 Arial Narrow Bold 18 PT 10120 Arial Narrow Bold 20 PT	Stroke Weight Spacing	Medium (0) Proportional	
10206 Arial Narrow Italic 6 PT 10208 Arial Narrow Italic 8 PT 10210 Arial Narrow Italic 10 PT	 AFP Properties Metacode Properties PCL Properties 	ties	
10212 Arial Narrow Italic 12 PT 10214 Arial Narrow Italic 14 PT 10216 Arial Narrow Italic 16 PT	 PostScript Propert PDF Properties 	ties	
10218 Arial Narrow Italic 18 PT 10220 Arial Narrow Italic 20 PT 11006 Timec-Doman 6 DT	Dimensions Properti	ies	
set the dimensions		Hara ia a aamr	ha of the highlighted

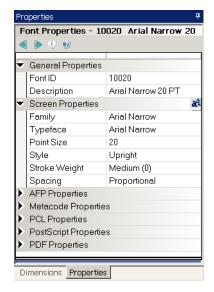
Use these tabs to set the dimensions and other properties.

Here is a sample of the highlighted font.

DEFINING BASIC FONT PROPERTIES

Follow these steps to set general and screen font properties:

- 1. Choose Manage, System, Fonts and highlight the font you want. Then click the Properties tab.
- 2. Modify these properties as needed:



Field Description

General Properties

Font ID	When a font is imported into the FXR, it is assigned a unique font ID. The system uses font IDs to track font usage. In addition, some printers require that you refer to a font by its ID number instead of its name. This value is generated when the printer font is imported into the FXR but may be changed if needed. If you change this field, you may need to change the Setup Data field for PCL Properties to use the same font ID.
Description	This description appears when you are selecting fonts.
Screen Properti	es
Family	A group of typefaces that share basic design characteristics and encompass many size and style variations such as Courier or Times. The family name helps determine the screen font used for displaying text when running under Windows.
Typeface	A specific member of a typeface family, such as Times-Roman or Times-Bold. The typeface name helps determine the screen font to use for display purposes.
Point Size	A point is a typographical vertical measurement, 72 points are equal to approximately 1 inch. Point size is used similarly in PostScript printing. It does not affect PCL, AFP, or Metacode printing.
Style	Choose Upright or Italic The style helps determine the screen font used for displaying text when running under Windows.
Stroke Weight	Your entry determines the lightness or darkness of the printed typeface. You can choose from Lightest (-7) to Darkest (7). The default is medium (0). This helps determine the screen font used for displaying text when running under Windows.

Field Description	
-------------------	--

Spacing	Choose Fixed or Proportional The spacing helps determine the screen font used for
	displaying text when running under Windows

DEFINING AFP FONT PROPERTIES

Follow these steps to set AFP font properties:

- 1. Choose Manage, System, Fonts and highlight the font you want. Then click the Properties tab.
- 2. Modify these properties as needed:

F	ont Properties - 1	.1016 Times-Roman 16
	🕨 🦻 🥹	
>	General Properties	_
>	Screen Properties	
÷	AFP Properties	(
	Coded Font File	X0DATINE
	Code Page File	
	Character Set File	
•	Advanced	
	Char Set Name	
	Font Index	0
	Setup Data	
	Other Info	
	Options	0
	Flag	0
Þ	Metacode Propert	ies
•	PCL Properties	
\$	De etCenint Dueue est	

	Decemption
Coded Font File	For printing to AFP printers, this file name must be the name of an AFP coded font file installed on the printer.
Code Page File	Enter the font file name. AFP font file names do not have an extension.
Character Set File	This field may display information, but no entry is required.
Char Set Name	This field may display information, but no entry is required.
Font Index	This field may display information, but no entry is required.
Setup Data	This field may display information, but no entry is required.
Other Info	This field may display information, but no entry is required.
Options	This field may display information, but no entry is required.
Flag	This field may display information, but no entry is required.

DEFINING METACODE FONT PROPERTIES

Follow these steps to set Xerox Metacode font properties:

- 1. Choose Manage, System, Fonts and highlight the font you want. Then click the Properties tab.
- 2. Modify these properties as needed:

Pro	operties		₽
F	ont Properties		
•	🕨 🦻 🕘 👘		
•	General Properties		*
÷	Screen Properties	al	
۶	AFP Properties		
÷	Metacode Properti	es	
	Font File - 0 Degree		
	Font File - 90 Degre		
	Font File - 180 Deg		
	Font File - 270 Deg		
•	Advanced		
	Typeface ID		
	Char Set ID		
	Char Set Name		
	Font Index		
	Other Info	-	
	Options		
	Flag		
۲	PCL Properties		-

Field Description

Font File - 0 Degrees	This is the name of the font file. This name references a font that is not rotated.
Font File - 90 Degrees	This is the name of the font file. This name references a font that is rotated 90 degrees.
Font File - 180 Degrees	This is the name of the font file. This name references a font that is rotated 180 degrees.
Font File - 270 Degrees	This is the name of the font file. This name references a font that is rotated 270 degrees.

The font file name can consist of up to six characters, with no extension. For printing to Metacode printers, these file names must match the name of a Xerox font installed on the printer.

Typeface ID	This field may display information, but no entry is required.
Char Set ID	A character set (also known as a symbol set) identifies the set of symbols provided by the font. Some printers require that you refer to a character set by its ID number instead of its name. This is used in PostScript printing to build an internal code page. Use W1 for the ANSI code page. This value should match the character set ID specified in the CODEPAGE.INI file. For instance, if you enter 1004 as the code page, enter W1 here. Code page Char Set ID 1004 W1
Char Set Name	This field may display information, but no entry is required.
Font Index	This field may display information, but no entry is required.

Field	Description
Other Info	This field may display information, but no entry is required.
Options	This field may display information, but no entry is required.
Flag	This field may display information, but no entry is required.

DEFINING PCL FONT PROPERTIES

Follow these steps to set PCL font properties:

- 1. Choose Manage, System, Fonts and highlight the font you want. Then click the Properties tab.
- 2. Modify these properties as needed:

F	ont Properties - 11016	Times-Roman 16
•	🕨 🎐 🥹	
Þ	AFP Properties	·
ĥ	Metacode Properties	
÷	PCL Properties	
	FontFile	FPTINF.PCL
	Setup Data	~(11016X
•	Advanced	
	Typeface ID	
	Char Set ID	
	Char Set Name	
	Font Index	0
	Other Info	
	Options	0
	Flag	0
₽	PostScript Properties	
۶	PDF Properties	

Field Description

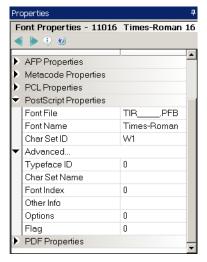
	-
Font File	Enter the name of the font file, including the PCL extension. For printing to PCL printers, this PCL bitmap font must be located in the FONTLIB master resource directory so it can be downloaded to the printer if requested.
Setup Data	Enter the PCL printer sequence required to select a font. Normally, the setup data must appear in this format: $\sim (11018X)$ where 11018 is the font ID. The font ID must match the font ID you defined under General Properties. The X must be uppercase. Your setup data may differ if you are using internal printer fonts. Check your printer manual for the proper setup data sequence for internal printer fonts.
Typeface ID	This field may display information, but no entry is required.

Field	Description
Char Set ID	A character set (also known as a symbol set) identifies the set of symbols provided by the font. Some printers require that you refer to a character set by its ID number instead of its name. This is used in PostScript printing to build an internal code page. Use W1 for the ANSI code page. This value should match the character set ID specified in the CODEPAGE.INI file. For instance, if you enter 1004 as the code page, enter W1 here. Code page Char Set ID 1004 W1
Char Set Name	This field may display information, but no entry is required.
Font Index	This field may display information, but no entry is required.
Other Info	This field may display information, but no entry is required.
Options	This field may display information, but no entry is required.
Flag	This field may display information, but no entry is required.

DEFINING POSTSCRIPT FONT PROPERTIES

Follow these steps to set PostScript font properties:

- 1. Choose Manage, System, Fonts and highlight the font you want. Then click the Properties tab.
- 2. Modify these properties as needed:



Field	Description
Font File	Enter the name of the font file, including the PFB extension. For printing to PostScript printers, this PostScript Type 1 font must be located in the FONTLIB master resource directory so that it can be downloaded to the printer if requested.
Font Name	Enter the name of the font, such as Times-Roman. Studio fills this field when you insert a PostScript font. The font name also appears in the font AFM file. All type 1 PostScript fonts require two files for each font family name: *.AFM and *.PFB.
Char Set ID	A character set (also known as a symbol set) identifies the set of symbols provided by the font. Some printers require that you refer to a character set by its ID number instead of its name. This is used in PostScript printing to build an internal code page. Use W1 for the ANSI code page. This value should match the character set ID specified in the CODEPAGE.INI file. For instance, if you enter 1004 as the code page, enter W1 here. Code page Char Set ID 1004 W1
Typeface ID	This field may display information, but no entry is required.
Char Set Name	This field may display information, but no entry is required.
Font Index	This field may display information, but no entry is required.
Other Info	This field may display information, but no entry is required.
Options	This field may display information, but no entry is required.
Flag	This field may display information, but no entry is required.

Using True Type Fonts within a Postscript Print Stream

TrueType fonts can be used within a Postscript print stream by converting TrueType fonts into PostScript Type 42 fonts.

The Type 42 font format is a PostScript wrapper around a TrueType font, allowing PostScript-capable printers containing a TrueType rasterizer to print TrueType fonts.

Note The TrueType font must contain a "POST" table that contains the additional information needed to use the TrueType font in a PostScript printer. Most of the TrueType fonts used in REL121.FXR can be converted into Type 42 fonts. However, the Andale Duospace TrueType font cannot be converted into the Type 42 format and the TrueType fonts for Chinese, Japanese, and Korean (Albany WorldType) cannot be converted into Type 42 fonts.

Converting True Type Fonts to PostScript Type 42 Fonts

Open Font Manager and select Convert from the Font tab to start the conversion wizard. Select TrueType as the Input Font Type and Type 42 as the Output Font Type (TrueType is the only valid Input Font Type to create Type 42 fonts). Then select the fonts in the Font List to be converted (click on the Select All button to quickly select all fonts) and then press the Next button.

Font ID	Font PDF417	ĥ		0	
01215	PDF417 dmttf			Input Font Files	
13505 13506 24004	dmttf dmttf albw.ttf			Font File Location Font Type Code page	C:\fap125\mstrres\deflb\ TrueType 1004,W1
24005 24006 24007 24008	albw.ttf albw.ttf albw.ttf albw.ttf		•	Output Font Files Font File Location Font Type	C:\FAP_FONTS\TrueType Type 42
24009 24010 24011 24012	albw.ttf albw.ttf albw.ttf albw.ttf		•	Properties Font ID Description Family	
24014 24016 24017 24018	albw.ttf albw.ttf albw.ttf albw.ttf			Typeface Point Size Fort Style	
24020 24022 24024 24030	albw.ttf albw.ttf albw.ttf albw.ttf	Ŧ		Stroke Weight	Medium (0)
Select All	Deselect Al	1	Ŀ		

It is common for an FXR file to have many font records that use different point sizes of the same TrueType font. These font records should use the same Type 42 name as shown below. The Type 42 font conversion will prevent any changes to the Type 42 filenames presented below. Press Finish to begin the font conversion.

Font ID	Type 42
00911	PDF417PFA
01215	PDF417PFA
13504	DMPFA
13505	DMPFA
13506	DMPFA
24004	ALBW.PFA
	11 014 051
24005	ALBW.PFA
24006 I) Ø	ALBW.PFA
24006 1) 10 • Properties	ALBW PFA
24006 Properties Font ID	ALBW PFA 00911
24006 Properties Font ID Description	ALBW PFA 00911 PDF417 240 DPI 9x12 - 2.16 Pt
Properties Font ID Description Family	ALBW.PFA 00911 PDF417 240 DPI 9x12 - 2.16 Pt Pdf417
Properties Font ID Description Family Typeface	ALBW.PFA 00911 PDF417 240 DPI 9x12 - 2.16 Pt Pdf417 Pdf417
24006 Properties Fort ID Description Family Typeface Point Size	ALBW.PFA 00911 PDF417240 DPI 9x12 - 2.16 Pt Pdf417 Pdf417 2
Properties Font ID Description Family Typeface	ALBW.PFA 00911 PDF417 240 DPI 9x12 - 2.16 Pt Pdf417 Pdf417

If you try to convert a TrueType font that does not contain a compatible "POST" table, you may see an error message in the output window similar to the following:

```
Font C:\fap125\mstrres\fmres\deflib\aduo.ttf cannot be
converted to Type 42 - 'POST' format is not compatible
Failed to convert font C:\fap125\mstrres\fmres\deflib\aduo.ttf
[10:50:53AM] Error: File Font 25204 failed.: Font
C:\fap125\mstrres\fmres\deflib\aduo.ttf cannot be converted to
Type 42 - 'POST' format is not compatible
Failed to convert font C:\fap125\mstrres\fmres\deflib\aduo.ttf
```

The font conversion will convert each TrueType font into a Type 42 font and a symbol file containing information about the code page(s) supported and the character/glyph names for each code page.

The Type 42 font will have the same filename as the TrueType font except for the .PFA file extension. The symbol file will have the same filename as the TrueType font except for the .SYM file extension. The Type 42 fonts and symbol files will need to be stored in the FontLib directory as specified by the MRL.

The FXR font records selected for the Type 42 conversion will have the PostScript properties updated with the name of the Type 42 font and other information used for printing.

Font Manager 4	Properties		ą
00911 PDF417 240 DPI 9x12 - 2.11 A 00912 PDF417 300 DPI 9x12 - 2.11	Font Properties - 2401	4 Albany AMT 14 PT	
	 Point Size Font Size Font Style Stroke Weight Spacing AFP Properties Coded Fort File Coded Fort File Coded Fort File Advanced Metacode Properties Font File - 30 Degrees Font File - 90 Degrees Font File - 180 Degrees Font File - 180 Degrees Font File - 270 Degrees Advanced PCL Properties Font File Setup Data Advanced Post Script Properties Font File 	14 Upright Medium (0) Proportional XDDAAAND SAAND FXAAND F3AAND F1AAND F1AAND F2AAND F	
24110 Albany AMT Bold 10 PT 24111 Albany AMT Bold 11 PT 24112 Albany AMT Bold 12 PT 24114 Albany AMT Bold 14 PT 24116 Albany AMT Bold 16 PT 24117 Albany AMT Bold 17 PT 24118 Albany AMT Bold 20 PT 24122 Albany AMT Bold 22 PT 24122 Albany AMT Bold 24 PT 24130 Albany AMT Bold 20 PT	Char Set ID Advanced PDF Properties Font File Char Set ID Char Set ID Char Set Name Embed Font Advanced Dimensions Properties	W1 albw.ttf W1 No	

Although both the Type 42 and symbol files are ASCII text files, these files should not be edited or modified.

The PostScript print process using Type 42 fonts and symbol files is the basically the same as when using PostScript Type 1 fonts.

On UNIX platforms (Linux) Type 42 (.pfa) and symbol (.sym) files are stored in MRL's FontLib directory (lower case filenames on UNIX platforms).

On Windows platforms, Type 42 (.pfa) and symbol (.sym) files are stored in MRL's FontLib directory.

DEFINING PDF FONT PROPERTIES

Follow these steps to set PDF font properties:

- 1. Choose Manage, System, Fonts and highlight the font you want. Then click the Properties tab.
- 2. Modify these properties as needed:

Pro	operties			ą.
F	ont Properties -	11016	Times-Roman	16
•	🕨 🦻 🕘 👘			
►	AFP Properties			
•	Metacode Proper	ties		
▶	PCL Properties			
۲	PostScript Proper	ties		
÷	PDF Properties			
	Font File		TIRPFB	
	Char Set ID		W1	
	Char Set Name			
	Embed Font		No	
•	Advanced			
	Typeface ID		0	
	Font Index		0	
	Font Name		Times-Roman	
	Other Info			
	Flag		0	_

Field	Description
Font File	This is the name of the font file.
Char Set ID	A character set (also known as a symbol set) identifies the set of symbols provided by the font. Some printers require that you refer to a character set by its ID number instead of its name. This is used in PostScript printing to build an internal code page. Use W1 for the ANSI code page. This value should match the character set ID specified in the CODEPAGE.INI file. For instance, if you enter 1004 as the code page, enter W1 here. Code page Char Set ID 1004 W1 1250 WE 1251 WR 1253 WG 1254 WT 1257 WL
Char Set Name	This field may display information, but no entry is required.
Embed Font	Choose Yes if you want the system to embed this font. The default is No.
Typeface ID	This field may display information, but no entry is required.
Font Index	This field may display information, but no entry is required.
Font Name	This field may display information, but no entry is required.
Other Info	This field may display information, but no entry is required.
Flag	This field may display information, but no entry is required.

DEFINING FONT DIMENSIONS

Follow these steps to define font dimensions:

- 1. Choose Manage, System, Fonts and highlight the font you want. Then click the Dimensions tab.
- 2. Modify these properties as needed:

Dir	mensions					म
F	ont Dimer	isions - 1	1016 T	'imes-R	toman	1
ą) 🥝					
Ŷ	Dimensio	ns				_
	FAP Heig		592			
	FAP Widt		536			
	FAP Base	eline	488			
	Original F	ont File	TIR	PFB		
	A 1		1004			
	Codepag	e	1004			
	Codepag	e	1004			
	Codepag	e	1004			
Co	Codepag	e Code(Hex)		haracter	Width	•
Co				haracter	Width 0	•
Co	ode(Decimal)	Code(Hex)				
Co	ode(Decimal)	Code(Hex) O	Display C		0	
Co	ode(Decimal) 0 1	Code(Hex) 0 1	Display C	-	0	•

Field	Description
FAP Height	This is the largest font character height (in FAP units, 2400 dots/inch) The font height affects the size of text displayed when running under Windows.
FAP Width	This is the largest font character width (in FAP units) The font width affects the width of text displayed when running under Windows.
FAP Baseline	This is the largest font character base line (in FAP units) The baseline is measured from the top of the largest character to the imaginary line that the character appears to rest on. The font baseline affects the positioning of text displayed when running under Windows.
FXR File	Under Windows, the font file name has the extension FNT. This field is not currently used.
FON File	Under Windows, the font width table file name has the extension FON. This field is not currently used.
Code Page	Under Windows, the system uses the ANSI code page. Normally, this field is set to 1004 or is left blank.
Width Table	The width table is calculated from the printer font file and is used to determine character spacing when displaying text. Fixed pitch fonts use the same width for each character. The width is measured in FAP units (2400 to an inch).

The Dimensions tab provides information about the font file. Information on this window should match the characteristics in the font file. If you enter dimension information which does not match the actual font file, only the bitmap font window display changes. The actual dimensions of the font in the font file do not change, nor do print dimensions of the font change.

IMPORTING FONTS

Studio provides a wizard to guide you through the steps of importing fonts into your font cross-reference (FXR) file. Studio lets you import these types of fonts:

- AFP
- Fonts in another FXR
- PCL
- PostScript
- TrueType
- Metacode

For instance, you can use this wizard to import TrueType fonts into your FXR file.

Note To import TrueType or PostScript fonts, first place a copy of the fonts you want to import from the \Windows\Fonts directory into a temporary directory. You will then import those fonts from the temporary the directory.

Follow these steps to add fonts to your font cross-reference (FXR) file:

- 1. Open the workspace which uses the font cross-reference (FXR) file to which you want to add fonts.
- 2. Choose Manage, System, Fonts.
- 3. From the Font menu, choose Import

Fong	t	<u>M</u> anage	Window	Ы
	Duplicate		Ctrl+U	
	<u>D</u> elete		Ctrl+D	
	F	ind Font	Ctrl+F	
	Filter List		Ctrl+L	
	<u>S</u> elect All		Ctrl+Alt+S	
	Deselect All		Ctrl+A	
	Conver <u>t</u>		Ctrl+T	
	Ī	mport	Ctrl+I	
	E	x Import	new font(s	5)
			new font(s)	1
	F	(d,		_

The Import Fonts - Select Type window appears:

* Import Fonts - Select Type	×		
The font import wizard will help you import one or more fonts into the current Font Cross Reference (FXR) file. Please select the type of font you would like to import and click Next.			
Font type: AFP font Font Cross Reference (FXR) PCL bitmap font PostScript font TrueType font Xerox Metacode font	Import TrueType fonts into the FXR.		
	< Back Next > Cancel Help		

Select the type of font you want to import and click Next. You can choose from these types of fonts:

Font	Description
AFP	AFP fonts consist of a code font file, a code page file, and a character set file. These fonts are typically used on IBM AFP printers.
Font Cross-Reference (FXR)	Lets you import fonts from another FXR file.
PCL	This option imports PCL bitmap fonts into your FXR. These fonts are typically used on PCL printers.
PostScript	This option imports PostScript bitmap fonts into your FXR. These fonts are typically used on PostScript printers.
TrueType	This option imports TrueType fonts into your FXR. These fonts are common on Windows computers.
Xerox Metacode	This option imports Metacode fonts into your FXR. These fonts are typically used on Xerox Metacode printers.

The Import Fonts - Select Font Files window appears:

	🔨 Import Fonts - Select Font Files 🛛 🗙			
	Click the Select Files button to select the files to import, then choose the point sizes you want to create. You can also change the font properties if necessary. Use the Backward and Forward buttons to move through the list of fonts. To import a TrueType or PostScript font, first copy the font files from the C:\Windows\Fonts directory into a temporary directory, then import the font files from the temporary directory.			
	Select Files 0 files listed			
	Status TrueType Font File			
Click here to select the fonts you want to import.				

4. Click Select Files to select the fonts you want to import. The Import Fonts -Select Font Files window changes after you select the fonts you want to import:

Use these buttons to move through the list of fonts.	Import Fonts - Select Font Files It is the Select Files button to select the files to import, then choose the point sizes you want to create. You can also change the font properties if necessary. Use the Backward and Forward buttons to move through the list of fonts. To import a TrueType or PostScript font, first copy the font files from the C:\Windows\Fonts directory into a temporary directory, then import the font files from the temporary directory. Select Files 3 files listed Status TrueType Font File ANTQUAB.TTF Odd Page: ANTQUAB.TTF Stoke wt: MITQUAB.TTF Unicode character widths Unicode character widths "Insert All*" Insert a set of standard point sizes *Inserts a set of standard point sizes
	5 For each font specify the point sizes you want to import Click Insert All to

- 5. For each font, specify the point sizes you want to import. Click Insert All to import all point sizes. You can also change the font's properties if necessary.
- 6. Click Finish to import the fonts into your font cross-reference file (FXR).

7. The fonts you want to use should be available either on the Documaker server and/or target printer if you are embedding the fonts or not.

IMPORTING FONTS

Export - step 2 of 2 Select the fonts from the list below that you would like complete the export.	xe to export to the font file. Once you have selected the fonts, Click Finish to
Font list: 00911 PDF417 240 DPI 9x12 - 2.16 Pt 00912 PDF417 300 DPI 9x12 - 2.16 Pt 01215 PDF417 300 DPI 12x16 - 2.88 Pt 01216 PDF417 300 DPI 12x16 - 2.88 Pt 13505 Data Matrix for Documaker 4 PT 13505 Data Matrix for Documaker 5 PT 13506 Data Matrix for Documaker 6 PT 24006 Abany AMT 5 PT 24006 Abany AMT 5 PT 24009 Abany AMT 8 PT 24009 Abany AMT 9 PT 24009 Abany AMT 9 PT 24010 Abany AMT 11 DT 24011 Abany AMT 11 DT	Select All Deselect All ✓ Mark as permanent fonts
Location of fonts: D:\REL11\MSTRRES\DMS1\DMS1\F	ONTLIB
	< Back Finish Cancel Help

Use Font Manager's File, Generate menu option to quickly generate FNT, XRF, PFM and CSS files. FNT files are used to download fonts to a PCL or PostScript printer. XRF files are FormMaker II font cross-reference files. PFM files are Docuflex font format files. These files are listed in the FontSection of DocuFlex INI files and are used when converting a document from one format to another.

GENERATING AN FNT FILE

The Generate FNT File option lets you automatically generate an FNT file for downloading fonts to a PCL or PostScript printer. Follow these steps to generate an FNT file:

- 1. Open the FXR in Font Manager
- 2. Select Font, Export, Export PCL/Postscript file

The Export Wizard displays:

The font export wizard will help you export and modify the file name that will be written	fonts to a file that can later be downloaded to a p n to, if desired, and click Next.	printer. Choose a font type to ex
- ·		
0		
Options		
Location of exported fonts:	D:\REL11\MSTRRES\DMS1	\DMS1\FONTLIB\
Export to file:	REL121.FNT	
Export type:	PCL	

Location of exported fonts	The location of the PCL or Postscript fonts which will be used to generate the FNT file.
Export to file	The name of the FNT file. Defaults to the FXR file name.
Export type	Select either PCL or Postscript

Select the desired fonts.

Select All	Selects all fonts in the font list
Deselect All	De selects all fonts in the font list
Mark as permanent fonts	Downloaded PCL fonts that remain in the system during a printer reset. Permanent fonts are deleted from memory when the printer is turned off. Permanent fonts are not deleted during a printer reset. Does not apply to Postscript fonts

GENERATING PFM FILES FROM AN FXR FILE

Font Manager can generate Docuflex font format files, known as PFM files. These files are listed in the font section of Docuflex INI files and are used when converting a document from one format to another.

To create a PFM file, select Resources, Fonts to start Font Manager.

- 1. When you open Font Manager, the FXR defined in the workspaces Application Definition file (*.BDF) is automatically opened.
- 2. The Font List window appears.

3. Then select Font, Export, Export PFM Files. The following window appears.

🚗 🖬 🚥	Fonts		And and a second se
Home Edit Vi	ew Font Help		
	Sample Text Reports		
Workspace Ex	port PCL/Postscript File Ctrl+ port PFM File Ctrl+Alt- port CSS File Ctrl+Alt+	9	Properties
Application	00911 PDF417 24		Font Properties

- 4. If you want to open a different FXR file, you would select File, Open Fonts. Browse and select the desired FXR file to open it.
- 5. Enter the destination directory for the PFM files in the Directory field. Use the Browse button to change the destination directory.
- 6. Enter the name of the INI file in the INI File field, or use the Browse button to select an INI file.

🅆 Export - step	1 of 2 🛛 🔀
generated d location for	oort wizard will help you export fonts to PFM files, which are used uflex product. In addition to the PFM files, an INI file will also be uring the export process. Use the controls below to choose a the generated PFM files, a name for the INI file and the types of ort. Click Next to continue.
PFM File Directory:	C:\FAP\MSTRRES\FMRES\DEFLIB\
PFM INI File:	ISI.INI
PFMs to Generate	
Font Type:	Font Section Name in INI File:
💌 хмс	XMC Font Section
E AFP	AFP Font Section
E PCL	PCL Font Section
	<u>Back</u> <u>N</u> ext > Cancel Help

- 7. In the PFMs to Generate field, select which type of PFM files for which printer type to generate.
- 8. If you want to use all the fonts in the FXR file, leave the Selected Fonts Only field unchecked and click Ok. Font Manager generates the PFM files.

9. If you only want to generate PFM files for specific fonts, click the Selected Fonts Only field then click Ok. The system displays a list of the fonts in the FXR file:

🎌 Export - step 2 of 2			
Select the fonts, from the list below, for wh files. Once you've made your selection, clic Font list: 00911 PDF417 240 DPI 9x12 - 2.16 Pt 00912 PDF417 300 DPI 9x12 - 2.16 Pt 01215 PDF417 240 DPI 12x16 - 2.88 Pt 01216 PDF417 240 DPI 12x16 - 2.88 Pt 10004 Arial Narrow 4 PT 10005 Arial Narrow 5 PT 10006 Arial Narrow 5 PT 10006 Arial Narrow 7 PT 10008 Arial Narrow 8 PT 10009 Arial Narrow 8 PT 10009 Arial Narrow 9 PT 10010 Arial Narrow 10 PT 10011 Arial Narrow 11 PT 10012 Arial Narrow 12 PT 10014 Arial Narrow 14 PT	ich you would like to generate PFM k Finish to complete the export. Select All Deselect All		
ABCDabcd			
Location of fonts: C:\FAP\MSTRRES\FMRES\DEFLI	В\		
< <u>B</u> ack Finish	Cancel Help		

10. Select the fonts and click Ok. The system displays a message confirming that the PFM files were successfully generated.

* Export - step 2 of 2	×
Select the fonts, from the list below, for which you would like to files. Once you've made your selection, click Finish to complete	
Font list:	
00911 PDF417 240 DPI 9x12 - 2.16 Pt 00912 PDF417 300 DPI 9x12 - 2.16 Pt 01215 PDF417 240 DPI 12x16 - 2.88 Pt 01216 PDF417 240 DPI 12x16 - 2.88 Pt	
10004 Arial Na Documaker Studio	
10005 Arial Na 10006 Arial Na 10007 Arial Na 10008 Arial Na 10008 Arial Na 10008 Arial Na	41
10009 Arial Na	: All
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A PFM file is generated for a specific printer type, such as XMC, AFP or PCL.

Font information goes into the font record. For example, an FXR file may contain 68 fonts, with AFP setup data for all 68 fonts. XMC (Xerox Metacode) and PCL setup data may be available for only 64 of the 68 fonts. Therefore, a maximum of 64 PFM files are available for XMC and PCL printer types when generating a PFM file using that FXR.

The name of each PFM file is determined from the each printer types setup data in the font record.

For example, in REL121.fxr, font ID 24011, the XMC font is FXANNA.PFM, the AFP font is X0DAAANA.PDM, and the PCL font is FPAANA.PFM

When Font Manager generates the PFM files, it also creates an extract file which is, by default, called *ISI.INI*. You can insert the contents of this file into your Docuflex INI files as one of the FontSection control groups. The extract files are placed in the same directory as the generated PFM files.

Note If the ISI.INI file exists, the system appends the font section information in the existing file. If you do not include a path for the ISI.INI file, the system creates or updates the file in the directory from which you ran Font Manager, such as ..\FAP\DLL.

Here's a sample ISI.INI file:

```
[XMC Font Section] Fonts=3 FontThreshold=70000
Font1=c:\fap\mstrres\sampco\DEFLIB\FXAANA.pfm; 24011 Albany
AMT 11 point
Font2=c:\fap\mstrres\sampco\DEFLIB\FXAANA.pfm; 24012 Albany
AMT 12 point
Font3=c:\fap\mstrres\sampco\DEFLIB\FXAANA.pfm; 24014 Albany
AMT 14 point
```

When you use these PFMs to read or write FAP files in the Docuflex system, be sure to use the accompanying extract files in the FontSection control groups in the Docuflex INI files. The numbers after the semicolons are used by the system to identify font numbers in FAP records.

GENERATING EXPORT CSS FILE

The Export CSS File option lets you automatically export fonts to a CSS file that can later be used for WEB presentation. Follow the below steps to generate a CSS file:

- 1. Open the Resource >Font Manager
- 2. Select Font, Export, Export CSS file

The Font List window displays with the option for Export for CSS File

Home Edit View	Fort Help		
Lupicate FilterList Convert Sam leiste Select-Alt Import Rep and Parit Deselect Alt Export 1	oti		
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Content	13504 Data Matrix fer Documaker 13505 Data Matrix fer Documaker 13506 Data Matrix fer Documaker	General Properties Fort D Description	

- 3. Enter the location directory of the exported fonts for the CSS files. Use the Browse button to change the location directory.
- 4. Enter the filename where the CSS file will be exported.
- 5. The Export type field is set to CSS. Click Next.

- 6. You can generate a CSS file for specific fonts or all fonts. To generate a CSS file for specific fonts, click the desired fonts. To generate a CSS file for all listed fonts, use the Select All Button. Use the Deselect All button to deselect the selected fonts.
- 7. Once you've made your selection, click Finish to complete the export.

CONVERTING FONTS

Converting fonts lets you modify fonts so you can use the same font for different types of printers. If you want to use the fonts on AFP, PCL, and Xerox printers, you can convert the standard fonts that are included with the system. The standard fonts are PostScript fonts supported only by PostScript printers in pre-converted format. You can also convert fonts for your different printers.

Click on Convert under Fonts menu or right mouse click on Conversion in the popup menu, the Font Conversion wizard appears.

CONVERT FONTS - STEP 1

Follow these steps to convert fonts:

- 1. Choose Manage, System, Fonts to open Font Manager.
- 2. Select Font, Convert
- 3. Modify the settings on the Convert fonts dialog depending on the type of conversion you wish to perform

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The Input Font Files and Output Font Files are dependent on the Font Type selected. For example, If Input Font File Font Type is set to AFP, you will Resolution option. You must define the following in order to move on to the next step:

- input and output file locations
- input and output file types
- selected fonts to convert

Fonts list

Select fonts to convert. Items in the list are marked with an icon indicating if the input file has been found. Only items with a check icon can be selected for conversion.

Input Font Files

Font File Location	Choose the directory to find the files. The font selection list will update icons with files found that match when a different path is chosen.	
Font Type	Choose the file type to use. The font selection list will update icons with files found that match when a different type is chosen.	
Resolution	Choose the resolution if shown. Resolution is only shown for some file types.	
Code Page	Choose the code page if shown. Code page is only shown for some file type.	

Output Font Files

Font File Location	Choose the directory to write the new files.
Font Type	Choose the new file type.
Resolution	Choose the resolution if shown. Resolution is only shown for some file types.
Code Page	Choose the code page if shown. Code page is only shown for some file type.
Adjust font for negative left offset	Adjust character bitmaps with negative left offsets in order to prevent character crowding (which may occasionally occur when creating Xerox italic fonts).

Properties

The properties for the font selected are shown and non-editable.

Font ID	Unique font ID in font cross reference file.
Description	The description
Family	The family name
Type Face	The type face name
Font Size	The font size
Font Style	The style. For example upright or italic.
Stroke Weight	The weight. For example: medium.

Click Next to continue.

Convert Fonts - Step 2

Font ID	PCL
506	FPDMN6.PCL
9.99	
Properties	13506
Properties Font ID	1 13506 Data Mater for Don unaler 6 PT
Properties Font ID Description	Data Matrix for Documaker 6 PT
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Properties Font ID Description Family Typeface Point Size	Data Matrix for Documaker 6 PT Data Matrix for Documaker Data Matrix for Documaker 6

The default font names are created by the system, but you can edit the name to make if it more meaningful.

Properties

The properties for the font selected are shown and non-editable.

Font ID	Unique font ID in font cross reference file.
Description	The description
Family	The family name
Type Face	The type face name
Font Size	The font size
Font Style	The style. For example upright or italic.
Stroke Weight	The weight. For example: medium.

Click Finish.

Chapter 18

Testing Your Work

This chapter discusses how you can test the forms you have created and analyze system output. Testing the forms involves using the Test Scenarios manager. Analyzing the output involves using Printstream Analyzer.

This chapter includes these topics:

- Overview on page 789
- Using the Screen on page 791
- Creating a Test Profile on page 799
- Running a Test Scenario on page 801
- Changing Test Properties on page 806
- Modifying the AFGJOB File on page 807
- *Deleting a Test* on page 808
- Using the Printstream Analyzer on page 809

OVERVIEW

When you use the Test Scenario manager to run a test, keep in mind Studio does not execute the GenTrn and GenPrint processing steps. When you select an AFGJOB.JDT file you want to use for test, Studio creates a copy of that file and modifies it to exclude some rules and include others. One of the included rules eliminates the GenTrn requirement. Aside from those top level rules replaced in the AFGJOB sections, all the other rules remain where they are.

Note Please note that your original AFGJOB.JDT file is not changed. Studio makes a copy of this file and modifies it for testing purposes. Also, unlike an actual run, no files are saved to disk.

These rules are not imported into the AFGJOB.JDT file for a test run:

- LoadExtractData
- UpdatePOLFile
- ServerJobProc
- InitPrint
- InsNAHdr
- PrintFormset
- WriteOutput
- WriteNAFile

They could cause problems with the way Studio runs the test or else are simply not applicable in the case of the ServerJobProc rule.

Note The Test Scenarios option does not support custom Proc rules in the JDT file.

Also keep in mind that you do not have to check in resources to include them in a test run. This lets you easily experiment with resources you are developing and only check them in once you have corrected any problems.

Breakpoints

The breakpoint process stops on most other rules defined in the AFGJOB.JDT file. The LoadExtractData rule is, however, an exception. Since a test has no GenTrn processing step, the extract data is already loaded. If you execute another LoadExtractData rule, it means you are reading a *second* transaction before processing the first — effectively skipping ever other transaction in your extract.

Establishing origins and pagination are tasks that happen sequentially. The origin for each is determined when processing encounters that section, until that time the section may appear in an incorrect position. Furthermore, the final pagination process does not take place until you get to a form set- or transaction-level rule on the reverse processing, such as the PaginateAndPropagate rule. This means you may see some really long pages. in comparison to your page\paper setting, until this occurs.

A breakpoint also occurs when form set reloads. This happens any time the list of form set sections changes outside the normal triggering process. So, if you have a DAL rule or some other rule that adds or deletes a form or section beyond normal triggering, this event will be a breakpoint.

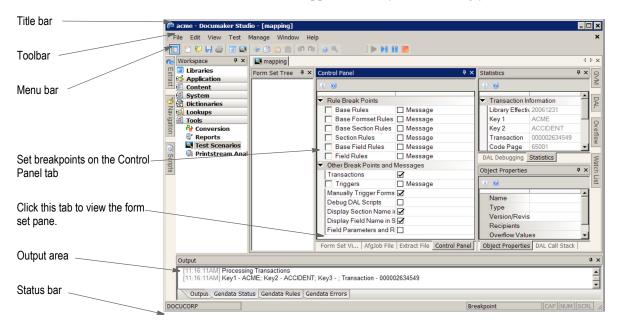
Messaging can give you more feedback of exactly what processed and in what order. When things are going along nicely, you may want to turn messaging off to reduce the clutter you see on the screen. When things are not working as expected, you would probably turn on more messaging to get an idea of what is happening.

Note Changes to a graphic via DAL or a rule may not appear in the Test view until the final document pagination occurs. The change can appear earlier if the section that contains the graphic is also forced *in-lined* due to the growth of a text area.

USING THE SCREEN

Studio places all the tools you need to create test profiles and run tests at your fingertips. The screen is your testing area. It is important to become familiar with the general screen layout and parts of the screen. Understanding the screen layout will help you work quickly and efficiently.

The main window that appears when you are testing your resources is shown here.



ltem	Description
Title bar	The title bar displays the name of the workspace you have open, followed by Documaker Studio, and then the name of the test you are running.
Toolbar	The toolbar contains a row of icons that provide quick access to common options.
Menu bar	The menu bar provides access to the pull-down menus.
Breakpoints	The Control Panel tab lets you set breakpoints that tell Studio when to pause the test.
Output area	The Output area shows you any messages generated by the test.
Status bar	The Status bar shows the current user ID and other status information.
Viewing area	Depending on the tab you choose, Studio shows you the forms as they are processed, your AFGJOB.JDT file, your extract file, or the DAL script you are executing.

The Test Scenario manager is also comprised of the following panes. These panes are dragable and dockable so you can place them where you like.

Form Set Tree 7 ×	Form Set View 👎 🗙	Statistics T ×
	<u> </u>	1) Ø
		Library Effectiv 20061231
		Key 1 ACME Key 2 ACCIDENT
		Key 2 ACCIDENT Transaction 000002634549
		Code Page 65001
		DAL Debugging Statistics
		Object Properties 4 ×
		۰ ۵
		Name
		Туре
	۲ ۲	Version/Revis
	Form Set Vi AfgJob File Extract File Control Panel	Object Properties DAL Call Stack
Pane	Description	
Form Set Tree	Once your form set has been triggered, you can in a tree style layout.	navigate the forms, sections, and fields
Form Set View	As your test runs, the Form Set View displays th	e form set as it is being built. Data
	mapping and pagination occurs as the rules are	executed.
AFGJOB File	Displays the contents of the job file that will be n	un. The view has some edit capability.
Extract File	Displays the extract file that will be used for the	run.
Control Panel	Lets you set breakpoints and messaging options	5.
Statistics	Displays information about the run.	
DAL Debugging	Shows you the script being run if the Debug DA	L Scripts option is turned on.
Object Properties	Displays information about the currently selected	d form or section.
DAL Call Stack	During DAL debugging, this shows you the list of most script is at the top.	f scripts currently executing. The curren
These Watch List p	anes let you see the internal variables used by the	e GenData program during a test run.
GVM	This window lists the GVM variables during runti	ime to help you debug your form set.
DAL	This window lists the DAL variables during runting	me to help you debug your form set.
Overflow	This window lists the user-defined Overflow vari your form set.	ables during runtime to help you debug
Watch List	A user defined list containing variables selected	from the other Watch List windows.
Test Help	Lets you view the Help file topics related to using	g the Test Scenario manager.

There are two ways to add variables to the Watch List:

- Highlight the variable on its native page, for example highlight a DAL variable on the DAL Watch List pane, right-click, and select Add Watch.
- Click the Add Watch button on the Watch List pane. This opens a window where you can enter the variable name and select the type of variable.

USING THE MENU BAR

This section introduces you to the pull-down menus which include additional options or are only available when you are working with tests. When you open a test profile, Studio adds the Test menu to your menu bar.

Note For information on the standard menus and menu options which are always available, see *Using System Menus* on page 35.

Menu	Description
View	This menu include additional options you can use when running a test.
Test	The Test menu provides you with options for managing your tests.

Using the View Menu

The View menu provides additional options you can use when running a test. When you select Test Scenarios, these additional menu options appear:

围	Options	
	Toolbar	
	Workspace Bar	
	Output Bar	
~	Status Bar	
	Field Bar	
63	Extract Bar	
3	Navigation	
	Scripts Bar	
 	Form Set	
	Controls	•
	DAL Windows	•
	Input Windows	•
	Variables	•
	Test Help	

Option	Description
Form Set	Use to display or hide the form set view.
Controls	Choose this option to display or hide the form set tree, control panel, statistics, object properties, and advanced debug controls.
DAL Windows	Choose this option to display or hide the DAL call stack, DAL variables, and DAL debugging window.
Input Windows	Choose this option to display or hide the AFGJOB.JDT file and the extract file.
Variables	Choose this option to display or hide DAL, GVM, overflow, and record dictionary variables. You can also display or hide the watch list.
Test Help	Choose this option to see Help information about the Test Scenarios manager.

Using the Test Menu

The Test menu provides you with tools to manage the test profiles you create and clear breakpoints. When you select Test, this menu appears:

	Run	F9	
H	Step F10		
	Step Into F11		
	Step Out Of Shift+F11		
11	Pause Shift+F9		
	Stop		
	Refresh Form Set		
	Show Print Batches		
	Show Addressee Lists		
	Profile Properties		
	Stop on DAL Script		
	Data Entry Ch	neck	

Option	Description
Run	Start the test.
Step	Proceed one step at time.
Step Into	This option is related to DAL script debugging. If you are about to step over a call to a DAL script, this option lets you step into that DAL script and continue debugging from within the script.
Step Out Of	This is related to DAL script debugging. If you are inside a DAL routine that was called by another, you can use this option to step out of the routine. The next break will occur after you have exited the current routine and returned to the caller.
Pause	Pause the test.
Stop	Stop the test.
Refresh Form Set	Lets you refresh the form set.
Show Print Batches	Shows you the print batches.
Show Addressee Lists	Shows you the lists of addressees.

Option	Description
Profile Properties	Use to edit the properties you have defined for a test profile.
Stop on DAL Script	Stop execution when reaching a DAL script.
Data Entry Check	This option is available once a form set has been triggered. The current NA/POL data is loaded into Data Entry Check. Keep in mind that if you make changes, those changes will not be reflected in Test manager.

USING THE RIGHT-CLICK MENUS

Form Set View

When running tests, click the Form Set View tab to watch the form sets change as they are processed, you can right-click to see the following menus.

€,	<u>Z</u> oom			
	Options			
	Ruler	•	Horizontal Ruler	
	Readability Statistics		Vertical Ruler	
	Go to Page		Centimeters	I
	Print		FAPs	
	Dra <u>f</u> t Mode		Inches	
			Picas	
			Points	

Option	Description
Zoom	Lets you see a larger or smaller version of the form set.
Ruler	
Horizontal	Select to display the horizontal ruler. Select again to remove the ruler.
Vertical	Select to display the vertical ruler. Select again to remove the ruler.
Centimeters	Select to use centimeters on the ruler.
FAPs	Select to use FAP units (2400 per inch) on the ruler.
Inches	Select to use inches on the ruler.
Picas	Select to use picas on the ruler.
Points	Select to use points on the ruler.
Readability Statistics	Check statistics on readability.
Go to Page	Jump to a specific page.
Print	Prints a copy of the form set.
Draft Mode	Print in draft mode.

AFGJOB file

When running tests, if you click the AFGJOB File tab to view the JDT file, you can right-click in the view area to see the following menus.

AfgJob File 🛛 🕈 🗙				
🖻 Base Formset Rules 🔺				
- WinNoG	enTrnTransacti	onProc - Required for visual debu		
Build	Enabled	eters.		
Load	Add Rule	ers.		
Run:	Delete Rule	eters.		
- Bato		Parameters.		
(disa	Expand All	this base uses these rules.		
🖻 Base In	Collapse All			
RUL	Search	oc - Required for visual debug		
disabree		- his base uses these rules.		
🗄 Base Field Rules				
DIILEta	dardWinEioldD	roc - Poquirod for visual dobuggo		
Enabled				
Rule Name		WinNoGenTrnTransactionProc		
Rule Parameters		Required for visual debugger		
Formset View AfgJob File Extract File Control Panel				

Option Description	
Enabled	Lets you turn on or off the processing of a rule. The check mark indicates the rule is enabled and will be executed during the test.
Add Rule	Lets you add a rule.
Delete Rule	Lets you remove a rule form the AFGJOB.JDT file.
Expand All	Lets you expand all rule groupings.
Collapse All	Lets you collapse all rule groupings.
Search	Lets you search the AFGJOB file.

USING THE TOOLBAR

The toolbar provides a quicker way to select options that may be listed on a drop down menu. Here is an example of the toolbar shown when you are working with test scenarios:



Test toolbar icons

- - - - -

Shown below are the toolbar icons that appear when you are working with test profiles.

lcon	Name	Description		
►	Start	Lets you start a test.		
	Step	Lets you continue to the next breakpoint		
П	Pause	Lets you pause a test. Click Start or Step again to resume the test.		
	Stop	Lets you cancel a test.		

Note

You can hide these icons by choosing View, Test Remote Control.

CREATING A TEST PROFILE

Studio includes a wizard to help you set up a test profile to run. This wizard starts automatically if you have no tests set up. If you do have test profiles set up, the Select Profile window appears. To create a new test profile, click New and follow these steps:

1. When you Click New, the following wizard appears.



2. Enter a name for the test profile so you can run it later without having to set up all the test parameters again. Click Next. The following window appears.

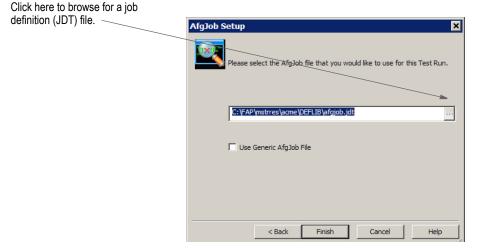
Click here to browse for an extract file.	Choose your extract file
	Trigger Run Only - No Extract Needed
	< Back Next > Cancel Help

- 3. Here you select an extract file to use in the test. If you only want to test the triggers, check the Trigger Run Only field. For this kind of test, you do not need an extract file.
- **Note** See *Running a Trigger-Run Only Test* on page 804 for more information on running a trigger-only test.

If your extract file is in XML format, be sure to check the Extract is an XML File field.

Your extract file can include as many transactions as you like, but keep in mind that the more you include, the longer it will take for the test to run. The transactions you do include should be representative of the data you will actually process to get the best results.

4. Click Next when you are finished. The following window appears.



5. On this window you select a job definition file (JDT). This file tells the system how to run as it performs the test. A JDT file is a text file which tells the system which job and form set rules to use as it processes your data. The rules defined in the JDT file are run before the system runs rules assigned to specific fields. An example of a JDT file is the AFGJOB.JDT file.

If you do not have a specific JDT file you want to use, click the Use Generic Afgjob File option.

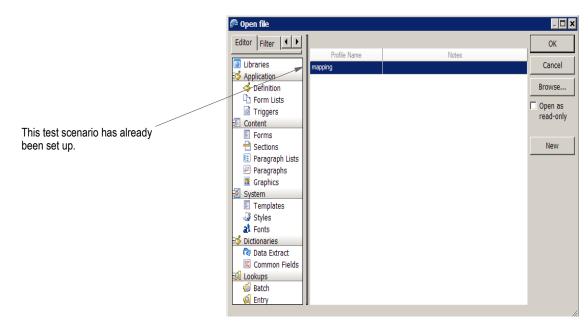
6. Click Finish to complete the definition of the test profile. The system then shows you the test window:

800

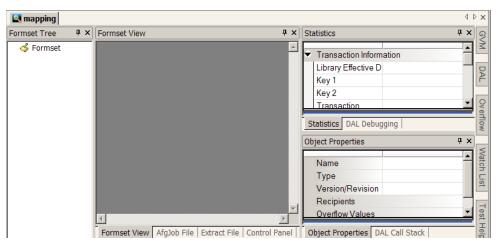
RUNNING A TEST SCENARIO

Follow these steps to run a test profile you have already defined.

1. Open a workspace, then click Test Scenarios. The following window appears.

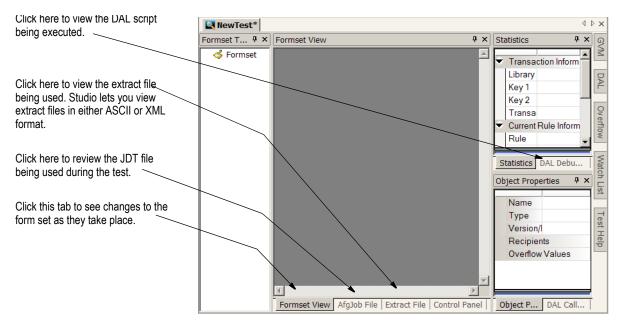


2. Highlight the test profile you want to run, then click Ok. Studio displays a window similar to this one.



To better monitor the test, you may want to resize some of the components of the window, like this:

Note These examples only show the Test window itself. You can close the workspace to get additional room. When you need to restore the workspace, just click View, Workspace.



3. You can click these tabs to change the view:

То	Click
Set breakpoints on transactions and rules, turn messages on or off, manually trigger form and sections, and debug DAL scripts. Keep in mind you can change breakpoints while running a test.	Control Panel
View information on the current transaction, rule, and section,	Statistics
Set up a list of DAL, GVM, or overflow variables to watch. To add a variable, click the plus sign (+). To remove a variable, click the red \mathbf{X} .	Watch List
Define the GVM variables for the watch list. To add a variable, click the plus sign (+).	GVM
Define the DAL variables for the watch list. To add a variable, click the plus sign (+).	DAL
Define the overflow variables for the watch lis. To add a variable, click the plus sign (+).	Overflow

Note To see a list of the GVM, DAL, and overflow variables, click the Start icon on the toolbar. As Studio runs through the test, it adds the variables it encounters onto the appropriate tab. Once the test finishes, you can then add the variables you want to watch onto your watch list.

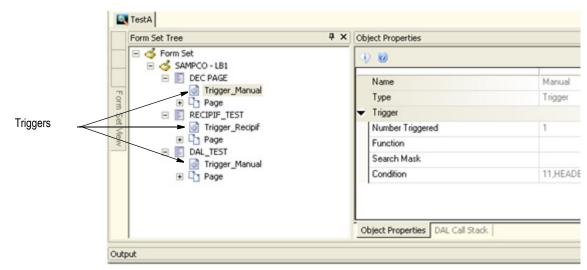
4. To start the test, click Start on the toolbar, as shown here:

Click Start.



When you start the test, the system runs and relevant messages are shown in the status bar.

When you run a test profile, triggers that cause forms or sections to be included in the form set are displayed in the Form Set Tree as children of the object they triggered.



You can click a trigger in the Form Set Tree to display the properties for the selected trigger in the Object Properties window.

Form Set Tree 4 ×	Object Properties	
	0.0	
Trigger_Manual	Name	DALTrigger
C Page	Туре	Trigger
B E RECIPIF_TEST	▼ Trigger	
Trigger_Recipif	Number Triggered	1
T Page	Function	DALTrigger
DAL_TEST Trigger_Manual	Search Mask	
E C Page	Condition	
🖃 😁 qdaltest	Data	TESTSCRIPT

The trigger properties include:

Option	Description
Trigger	
Number Triggered	The number of items triggered.
Function	The name of the function.
Search Mask	Only applies to a manual trigger.
Condition	Only appears for a manual trigger.
Data	The parameters for the function that was used for triggering. In the case of the DAL trigger, it is the script name.

When stepping through triggers, if a trigger is a DAL trigger (runs a script), the Step Into option becomes active in the Test menu. If you select Step Into, DAL debugging mode is activated for the duration of that trigger's execution.

RUNNING A TRIGGER-RUN ONLY TEST

When you run a trigger-only test, Studio displays the following window:

🌮 Pleas	e Enter the Key Information	×
Key 1		ОК
Key 2		Cancel
Key 3		

Use this window to enter the Key1, Key2, and Key 3 fields you want to trigger on.

MANUALLY TRIGGERING

You can use the Manually Trigger Forms and Sections option on the Control Panel pane to tell Studio to manually trigger copies of the forms that comprise the form set.

Control Panel	₽ ×
 Rule Break Points 	
Base Rules	Message
Base Formset Rules	Message
Base Section Rules	Message
Section Rules	Message
Base Field Rules	Message
Field Rules	Message
 Other Break Points and Messages 	
Transactions	Y
Triggers	Message
Manually Trigger Forms & Sections	Y
Debug DAL Scripts	
Display Section Name in Status Tab	Y
Display Field Name in Status Tab	Y
Field Parameters and Results	

When you choose this option and start a test, Studio displays a window similar to this one so you can specify the forms and sections you want to trigger on.

Forms and Ima	ages to Trigger	
+ QAIBANNR	1	
+ QAIBill	1	
+ QAICRD3	1	
+ GROUP	1	
+ QAIJUST	1	
MultilMG	1	
E FORM1	1	
E FORM2	1	
E FORM3	1	
E FORM4	1	
E FORM5	1	
+ FORM6	1	
+ FORM7	1	
+ FORM8	1	
+ FORM9	1	
+ FORM10	1	•

This can be useful when you need to test complicated scenarios without robust data.

CHANGING TEST PROPERTIES

You can change the properties associated with a test using the Test, Profile Properties option. This includes modifying these properties:

Property	Description
Extract File	Here you can specify a different extract file to use during the test.
Extract File is in XML Format	Check this box if the extract file is in XML format.
Import a new AFGJOB Rule Set	Here you can specify a different AFGJOB.JDT file to use during the test.
Use Library Files only	Check this box if you only want to use resource files stored in the library.
Run as User	This lets you specify the user ID you want the test to run under.

When you choose this option, the following window appears:

滯 Profile Properties (NewTest)		×
O X 9 0		ОК
		Cancel
 Required Files 		
Extract File	INPUT\extrfile.dat	
Extract File is XML in Format		
Import a new AfgJob Rule Set		
Use Library Files only (ignore files on		
Run as User		
Notes		
Environment Variables		

Make the appropriate changes and click Ok to accept them or Cancel to exit without making changes.

MODIFYING THE AFGJOB FILE

on the AfgJob File tab, as shown here: AfgJob File Ψ× Base Rules ٠ (disabled) -This base (this implementation) uses these rules. RULStandardWinJobProc - Required for visual debugger SetErrHdr - *: First, click the AfgJob File tab to SetErrHdr - ***: Policy:***PolicyNumber*** display the JDT file. SetErrHdr - ***: Company:***Company*** SetErrHdr - ***: Line of Business:***LOB*** SetErrHdr - ***: Run Date:***RunDate*** SetErrHdr - *:--CreateGlbVar - TblLstH,PVOID JobWinInit1 - Required for visual debugger If you then highlight a rule, you InitOvFlw - No Parameters. can enable or disable it, select SetOvFlwSym - AUTOMATIC, MEDBODY1,1 another rule, or modify the rule SetOvFlwSym - FORCED, MEDBODY2, 5 Load TblFiles - No Parameters. parameters. (disabled) - Every form set in this base uses these rules. Base Formset Rules Enabled Rule Name **Rule Parameters** Formset View AfgJob Rile Extract File | Control Panel |

First, highlight the rule you want to modify, then...

То	Do this
Enable or disable a rule	Click the check box in the Enabled field. If you disable a rule, Studio does not remove it from the file, but will skip over it when running a test.
Change the rule	Enter a new rule in the Rule Name field.
Change rule parameters	Enter the new parameters in the Rule Parameters field.
Delete a rule	With the rule highlighted, right-click and choose Delete Rule. Remember that you can also disable the rule if you want Studio to skip it during a test. The Delete Rule option removes it from the JDT file.
Save your changes	Click the Save icon on the toolbar.

You can modify the AFGJOB.JDT file Studio uses when running a test by clicking

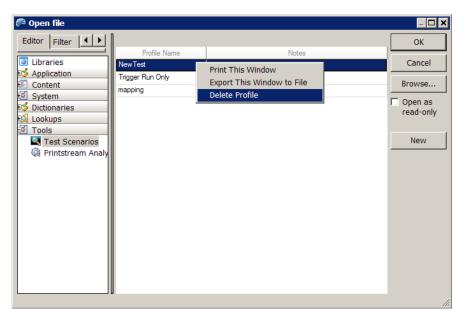
Note

You cannot modify extract files or DAL scripts when running tests.

DELETING A TEST

Follow these steps to delete a test.

- 1. Click Test Scenarios in the Workspace. The Select Profile window appears.
- 2. Highlight the test you want to delete, right-click, then choose Delete Profile.



Studio lets you confirm your decision to delete the test. Click Yes to delete the test.

Data Entry Check

This option is available once a form set has been triggered. It allows you to test your formset in a simulated entry session.

The current NA/POL data is loaded into Data Entry Check. Keep in mind that if you make changes to field data, those changes will not be reflected in Test manager.

Advanced Debug Control: Unload NA/POL Data files

Studio's Test Manager has an option which lets you save the NAFILE.DAT and POLFILE.DAT files created during a test run in a single output file. You can use this file to help resolve problems. Use the Unload NA/POL Data Files button on the Advanced Debug Controls window to tell the system to generate the file.

This button is available once you start a test run and stop at a breakpoint after a document has been created. The NA/POL data is generated by the GenData program and output as a single file. It will have a name in this format: ProfileName.dat

Note If the form set has not been triggered, the NA/POL file is empty.

Also, unloaded is a file named TESTLIST.DAT. This file contains NA/POL data generated during the test. It is not identical to the NA/POL file discussed above, but is provided to help with support issues.

USING THE PRINTSTREAM ANALYZER

You can use the Printstream Analyzer to open and analyze AFP or Metacode print streams. The Printstream Analyzer is available from the workspace tree. You can also start it using the Manage, Tools menu.

	滯 Open file			_ 🗆 🗙
	Editor Filter	Profile Name	Notes	ок
	Libraries Application Content System Dictionaries Lookups Tools Printstream Analy	New Test Trigger Run Only mapping	Print This Window Export This Window to File Delete Profile	Cancel Browse
_		J		

Note You do not have to open a workspace to use the Printstream Analyzer. To customize how Printstream Analyzer works, see *Setting Up Printstream Analyzer* on page 105.

Printstream Analyzer recognizes and opens AFP and Metacode print streams that have a variety of record delimiter types.

- AFP may be stream (unformatted), variable 2-byte, variable-blocked, CR-LF, Barr1 and Barr2.
- Metacode may be variable 1-byte, variable 2-byte, variable 2-byte inclusive, variable 4-byte inclusive, variable-blocked, xermet, CR-LF, Barr1, Barr2 or Mobius Metacode. Please note that for Mobius Metacode files, most text appears as Arial since Mobius files do not usually specify fonts in a DJDE command.

These record delimiter types are supported in Documaker by using the indicated OutMode INI option setting:

For this record delimiter type	Set the OutMode option to
AFP stream (unformatted)	This is the default OutMode setting.
AFP variable 2-byte	MRG2
AFP variable-blocked	MRG4
Metacode variable 2-byte	MRG2
Metacode variable-blocked	MRG4
Metacode Barr1	BARR
Metacode Barr2	BARRWORD
Mobius Metacode	Mobius

Note You do not need to make changes to the OutMode setting so Printstream Analyzer can analyze an AFP or Metacode print stream. You only need to set the OutMode option in Documaker so the GenPrint program will produce an AFP or Metacode print stream using a specific record type delimiter.

Printstream Analyzer does not require or access device fonts. It depends on font naming conventions to determine the characteristics of a Windows display font. When a font has an unknown naming convention, Printstream Analyzer uses Arial.

Naming conventions

Туре	Example
AFP	
System fonts	X0DAAAN6, C0FAAAN8
Expanded core fonts	C1N20800
Compatibility fonts	X0GT12, X0AOA
Others	C1TR110, C1COD39P
Metacode	
System fonts	FXAAN8
Xerox 9700 fonts	P07TDC, L0112B
Xerox Arial MT fonts	A003GP
Others	UN110E, TR212E, COD39P

Note Printstream Analyzer does not use device font metrics. Size differences between device fonts and Windows display fonts can cause positioning errors. This is expected behavior that will be most apparent in print stream files that contain many relative moves.

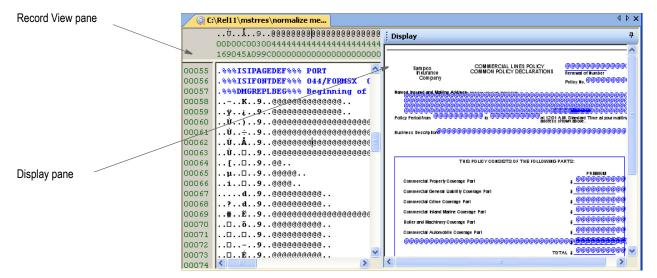
USING THE RECORD VIEW AND DISPLAY PANES

The Record View pane lets you view the records in a print stream. Since AFP and Metacode print streams contain many binary, non-displayable values, much of the content of the print stream appears as a series of periods (...). The Record View pane provides a hexadecimal display of the bytes of the selected print stream record so you can see the values shown as periods.

The Display pane, which you can dock and pin, provides a WYSIWIG view of the page that contains the records shown in the Record View pane. The text you select in the Record View pane is highlighted in the Display pane.

The line numbers in the Record View pane show horizontal dividers to indicate page breaks. You can click a line number to select an entire print record. Text contained in the record is then highlighted in the Display pane. A description of current record appears in the status bar.

Here is an example of the Record View and Display panes:



While working with the Record View and Display panes, you can use these toolbar icons:

6							
	Ð	Q	Q			-	O
Page Up	Page Down	Zoom In	Zoom Out	Fit Width	Fit Window	Record Info	Properties
			Printstre	am Anal	/zer		
lcon		De	escripti	on			
Page Up		CI	ick this	icon t	o go to	the nex	kt page.
Page Down		CI	Click this icon to go to the previous page.				
Zoom	CI	ick this	icon t	o increr	nentall	y zoom in	

Zoom In	Click this icon to incrementally zoom in on the page.
Zoom Out	Click this icon to incrementally zoom out on the page.
Fit Width	Click this icon to resize the page display so you see the entire width of the page.
Fit Window	Click this icon to resize the page display so you see the entire page in the window.

lcon	Description
Record Info	Click this icon to display information about the record, including its location on the page, the font used, the text that appears, and so on. See <i>Displaying Information about the Record</i> on page 814 for more information.
Properties	Click this icon to see information about the print steam, such as its name and type, the number of records, the longest record, and the page you are viewing.

USING THE FIND OPTION

Use the View, Find option to find specific text within the print stream. For Printstream Analyzer, you can choose from a variety of value encodings. The Auto encoding follows the usual encoding for the print stream you selected.

In AFP, text is usually EBCDIC. In Metacode, text is usually ASCII. Comment records in Metacode are EBCDIC so occasionally it is necessary to choose EBCDIC encoding when you are searching in a Metacode print stream.

rina		<u> </u>
Find What: Page	v	Find Next
Match case	Encoding ⊙ Auto ○ ASCII ○ EBCDIC	<u>C</u> lose <u>R</u> eset
Min column: 1 M <u>a</u> x column: 9999	O ASCII or EBCDIC O Unicode O Hex	More >>

Select the Hex option and enter minimum and maximum column values to find records with a particular identifier type or a carriage control byte. Click More to automatically set the Hex encoding and appropriate minimum and maximum column values for AFP and Metacode.

Here are some examples:

AFP advanced

	Find				
	Fi <u>n</u> d What:	D3A8AF		1	<u>Find Next</u>
	Match case		Auto AscII EBCDIC		<u>C</u> lose <u>R</u> eset
	Min column: M <u>a</u> x column:	3 7	 ASCII or EBCDIC Unicode Hex 		<< Less
	Occurrence:	~			
B		BPG: Begin Page BPG: Begin Page BPM: Begin Page	Мар	~	
	00058 !L.#.	BPS: Begin Page 5 BPT: Begin Preser BR: Begin Resou BRG: Begin Resou BSG: Begin Resou CAT: Color Attribi CCP: Conditional CDD: Container D CFC: Coded Font	ntation Text rce urce Group urce Env Group ute Table Proc Control Data Descriptor		

Metacode advanced

	iðĉ	-	P <mark>age 5</mark> of 78. 56662230002662330		Display
00128	169740100384 Find	E67E14CC010)1750057C00F60781		×
00129 00130 00131	_				
00132	Find What:	9		Y Fir	nd Next
00133 00134	Match case		Encoding O Auto		Close
00135 00136	Search up		ASCII EBCDIC	F	Reset
00137 00138	Min column:	1	ASCII or EBCDIC		
00139 00140	Max column:	1	 Unicode Hex 		
00141 00142					< Less
00143 00144	Occurrence:	×		_	
00145 00146	Record Type:	CC 0x09	*	*	
00147		CC 0x01 CC 0x03			
00148 00149	\$+ ÷N	CC 0x89 CC 0x89 CC 0x88			
00150 00151	÷΄ ÷μ	p*p*.	р т врт. рbр		
00152 00153			Äÿ6.8çüó*. 1ó*üÿ0ôþ6.		
00154 00155		-	Page 5 <mark> of 78</mark> .		

FINDING A SPECIFIC PAGE OR RECORD

Use the View, Go To option to move the selection in the Record View pane to the first record of the page you specify or to a specific record. The Display pane changes to reflect the contents of the page that contains the newly-selected record.

Note When you first open a print stream, you may see comments and other records stored on what is considered page zero. This information does not print and the Display pane is blank for page zero.

To automatically go to the first page, select View, Options, Printstream Analyzer. Then click the Advance to First Page Break option. This tells the system to move to the first page break record when you open a print stream.

You can also right-click in the Display pane when on page zero and choose Page Down to move to page one.

Go To		Here the system shows you the maximum number of records (or
Go to what:	Enter number: (max 161)	pages) in the print stream.
Page Record		
OK	Cancel	

DISPLAYING INFORMATION ABOUT THE RECORD

Use the Record Info option to analyze the commands in the print stream record. The command nearest to the selected position in the current record is selected in the Record Info window when it opens. When you click Ok, the selection position in the current record changes to that of the command selected in the window.

Click Copy to copy the command list to the clipboard so you can paste the command list into other applications.

Use the Up and Down buttons in the Find group to search for commands in the record.

The example below shows that an AFP PTX record is comprised of many absolute move inline, absolute move baseline, and transparent data (text) commands:

SFLength	: 0x12B1 (4785)	~	OK
	: OxD3EE9B		
Flags	: 0x00	[2]	Copy
	: 0x0000		<u>cobł</u>
3TO : 06 F7 0x000			
AMI : 04 C7 0x08A			Find
MB : 04 D3 0x007			SCFL
	(TIISI121-CIAN112)		DOLD
SVI : 04 C5 0x000	B (11)		
TRN : 07 DB Page			Up Down
TRN : 04 DB 6			
MI : 04 C7 0x094	0 (2368)		
TRN : O6 DB of			
MI : 04 C7 0x097	9 (2425)		
TRN : 04 DB 72			
MI : 04 C7 0x03C			
MMB : 04 D3 0x00D			
SCFL: 03 F1 02	(T1ISI121-C1AN218)		
SVI : 04 C5 0x001			
TRN : 17 DB Digit AMI : 04 C7 0x009			
MB : 04 C7 0x009			
GAB : 04 D3 0x016 SCFL: 03 F1 03	(T1ISI121-C1AN212)		
SCFL: 03 F1 03 SVI : 04 C5 0x000			
IRN : 10 DB Accou			
	(TIISI121-CIAN112)		
SCFL: 03 FI 01 SVI : 04 C5 0x000			
SVI : 04 CS 0x000 TRN : 03 DB	5 (11)		
	This statement is for servi		
MMI : 04 C7 0x04C			
TRN : OC DB 05/06			
IRN : OB DB thro			
TRN : OC DB 06/06			
MI : 04 C7 0x009			
MMB : 04 D3 0x01C			
SCFL: 03 F1 03	(T1ISI121-C1AN212)		

PRINTING WHAT IS IN THE PANES

Use the Print option to print the contents of either the Record View or Display panes. When you choose the Print option from the File menu or from the toolbar, the system lets you choose from Display pane or Record View pane so you can indicate which contents to print.

Print	
Display Pane Record View Pane	Cancel

Since print streams can be quite large and printing all pages can take a long time, the Print window lets you print a range of the pages.

Chapter 19

Deploying Resources

You develop resources in Studio in your workspace and the directories defined for that workspace. When you decide to move all or part of the resources you have developed into testing or production, you copy or *deploy* the resources to another location.

Studio makes this process quick and easy to do. This chapter discusses how to deploy resources and includes these topics:

- Creating or Running a Deployment on page 818
- Additional Resources on page 827
- *Modifying the INI Settings* on page 828
- Selecting Pre- or Post-Deployment Processes on page 829
- Processing the Deployment on page 830

IMPORTANT You must have administrator privileges to view and use the Deploy tool described in this chapter.

OVERVIEW

You can have as many deployments as you need. For instance, you might have the following deployments:

- An initial test location
- A secondary test site
- A pre-production site
- A production location

Using the deployment features of Studio, you can easily manage these deployments.

You may also do temporary or occasional deployments for reasons other than testing and production. For instance, you might do a deployment to a secondary location like a backup server or a CD writer.

Also, you might deploy to a laptop drive when you are going to take a trip and need to take resources with you. Anytime you intend to make a copy of development resources, it is a deployment.

In addition, you can deploy a portable workspace that you can submit to Oracle customer support for analysis.

Note A deployment only copies resources that have been checked into the library.

CREATING OR RUNNING A DEPLOYMENT

Studio provides a wizard appears to lead you through the steps necessary to deploy your resources. You can accept the defaults and simply do a total deployment or you can manage the details of the deployment using the wizard.

Follow these steps to run a deployment,

1. Choose the Manage, Tools, Deploy option from the menu. The Deploy Workspace window appears.

Deployment Options	
Location Options	
Deployment Name	
Path	C:\FAP\DLL\
Deployment Path	CARAPADELA
Script Options	C. WAP ODELY
Save deployment script	
Deployment Script	
Options	
Create Support Workspace	

2. Make the appropriate entries in the following fields.

Field	Description
Location Option	S
Deployment Name	Enter the name for the deployment. This is not the same as naming the workspace. This name is simply a short descriptive name that lets you refer to the deployment you are creating or updating.
Path	Enter the location of the deployment.
Deployment Path	The name of the deployment subdirectory. Notice the name of the deployment is combined with the path to build the appropriate subdirectory name for your deployment.
Script Options	
Save Deployment Script	 This field tells Studio whether you want the deployment script to be updated with the choices you make as you continue using the wizard. If you do not check the box, the choices you make are not saved, meaning this is a one-time deployment. If you do save or update the deployment script, the choices you make on the remaining wizard windows are saved and will be available if you decide to deploy the workspace resources again. You can also click the ellipsis button to locate the deployment script you want to use.
Deployment Script	Specify the deployment script to use. You can enter a previously-saved deployment script to use or assign a name to a new script you want to create.

Field	Description	
Options		
Create Support Workspace	workspace that you can submit to O When you select this option the Dep workspace. Also, the Deployment Pa change the Deployment Name but y Deployment Path.	-based library to a portable non-SQL library and racle Customer Support for analysis. loyment Name defaults to the current name of the ath defaults to the full workspace path. You cannot ou can change the Path which will change the will be sent directly to the Additional Resources Additional Resources on page 551.
	 Location Options 	
	Deployment Name	FinalFDBTest
	Path	C:\FAP\DLL\
	Deployment Path	C:\FAP\DLL\FinalFDBTest
	 Script Options 	
	Save deployment script	
	Deployment Script	
	Options	
	Create Support Workspace	

Note Create Support Workspace does not require promotion attributes of Description, Mode, Status, Project or Class.

For example, you might have this group and setting in your INI file:

<LibraryManager>

PromoteReqMode = Yes

Yes indicates that Mode is required for promote.

Since a Support Workspace does not offer the user the ability to set these properties, they are ignored when creating a Support library..

- 3. When you finish, click Next. The Deployment Type window appears.
- 4. Use the Deployment Type window to select the type of deployment you are creating.
- **Note** The administrator must manually add the AlwaysSQLPrepare = Yes setting to the DBHandler group that defines the ODBC connection to the resource library.

eploym	ent Type		2
	ment Type		
	ose the deployment type: ibrary Deployment		
	lat File Deployment		
	Effective Date		
	1/ 6/2012 🗸		

You can choose from these options:

Option	Description
Library Deployment	Choose this option to deploy the resources to a library.
Flat File Deployment	Choose this option to run a flat-file deployment. In a flat file deployment, resources are extracted from the library and copied as external files (not as a library) into the appropriate directory structure. Studio selects the resources to include based on the effective date you specify.
Effective Date	When you choose the Flat File Deployment option, the Effective Date field appears. Choose an effective date to filter resources on and after the date entered. Click the down arrow to display the calendar. Press Esc to close the calendar.

5. Click Next to continue.

The next step differs, depending on whether you chose a library or flat file deployment.

If you chose a	Go to
Library deployment	Creating a Library Deployment on page 821
Flat file deployment	Creating a Flat-File Deployment on page 825

CREATING A LIBRARY DEPLOYMENT

For library deployments, you must choose the library type. On the Library Manager Settings window you define the library specifications (type, effective date, and name) you want to use when the resources are deployed.

Note When the library in the workspace is codebase, the Library type choices on the deploy page appear as "Codebase" and "ODBC Database". When the library in the workspace is ODBC, the choices on the deploy page appear as "Enterprise Edition" and "Standard Edition". For legacy workspaces with codebase libraries, those libraries must be migrated to ODBC before they can be deployed as 'Enterprise'.

brary Properties		
) 😺		
Library Name		
Browse ODBC	Browse ODBC	
Database Name		
Database Schema		
Library Name	DeployTest_DEV	
Description:		
Library table names		
Generate DDLs	Generate DDLs	
Index Table	DeployTest_DEV	
Data Table	DeployTest_DEV_LBYD	
Catalog Table	DeployTest_DEV_LBYC	
Library Log Table	DeployTest_DEV_LBYL	
User Table	DeployTest_DEV_USER	
Common Fields Table	DeployTest_DEV_FLDB	
Database authentication		
User ID:		
Password:		
Verify Password:		
Enable Tracing		

You may also choose an existing library or add a new one by pressing the Select... button at the top of the Library Manager Settings.

Full Name	Description	DB Handler	OK
571_DEV		CB5	Cancel
NALFOBTEST_DEV		ODBC	Cancel
stDeploy_DEV		ODBC	Add
alFDBTest		CB5	Properties
alFDBTest		CB5	
ployTest_DEV		ODBC	

- **Note** For ODBC databases, you must first create the Data Source names using the Windows Control Panel before Studio can address the library database.
 - If using Oracle database and ODBC connection, the Oracle Instant Client version 11.2.0.3 must be used as the Client for the Data Source Name. Refer to the Instant Client ODBC readme for installation details.
 - 1. Enter the information in the Library Manager Settings window. The table below describes the contents of the Library Manager Settings window.

Option	Description
Library Name	
Browse ODBC	Use the Browse ODBC button to select the Data Source that is associated with your workspace. You are then prompted to enter Oracle ODBC Driver Connection information.
Database Name	Name of the database. Is pre-filled after entering ODBC information if available.
Database Schema	Database schema. Is pre-filled after entering ODBC information if available.
Library Name	The workspace library name is pre-filled using the deployment name with a _DEV suffix. You can change the name if you wish.
Description	Optional. Enter a description of the workspace library.

Library Table Names

Option	Description
Generate DDLs	Selecting this option opens a window with the SQL commands used to create the tables. If your database administrator has restricted the creation of tables, confirm the table names you want to use then highlight the text and press Ctrl+C to copy it to your clipboard. You can then paste the information into an email or a text file to give to your database administrator. Note: You will not be able to proceed past this page if the tables are not created.
Index Table	Defaults as your deployment name, plus the suffix qualifier of _DEV. You may enter a different name if you wish.
Data Table	Defaults as your deployment name, plus the suffix qualifier of _DEV_LBYD. You may enter a different name if you wish.
Catalog Table	Defaults as your deployment name, plus the suffix qualifier of _DEV_LBYC. You may enter a different name if you wish.
Library Log Table	Defaults as your deployment name, plus the suffix qualifier of _DEV_LBYL. You may enter a different name if you wish.
User Table	Defaults as your deployment name, plus the suffix qualifier of _DEV_USER. You may enter a different name if you wish.
Common Fields Table	Defaults as your deployment name, plus the suffix qualifier of _DEV_FLDB. You may enter a different name if you wish.
Database Authenticat	lion
User ID	The Data Source user ID. This option is filled in for you when you are selecting ODBC Data Source.
Password	Enter the Data Source password. The password is updated when you enter the password on the ODBC Driver Connect dialog Password field. The password appears as asterisks (***).
Verify Password	Enter the Data Source password again, to verify correct typing in Password entry. The verify password is updated when you enter the password on the ODBC Driver Connect dialog Password field. The password displays as asterisks (***)
Enable Tracing	Check this box to enable tracing. Tracing can help in monitoring and analyzing the Documaker application as it is running against the database.

2. Once you have made your selections, click Next. The Library Resources window appears.

By (defaul	t, Studio	checks
this	box f	or you.	

Clear this checkbox if you want to use a promotion script to select specific resources.

- 3. Indicate if you want to use all the library resources.
 - If you remove the check from the checkbox and click the Browse Script option, Studio lets you select specific library resources to deploy.
 - Click the Browse Script button to select the promotion scripts you want to use to move resources to the deployment destination. You can delete the promotion scripts if needed.

Note Use Library manager to create promotion scripts.

4. Once you have identified the library resources you want to send to the deployment destination, click Next to go to the Additional Resources window. For more information, see *Additional Resources* on page 827.

Generating a FORM.DAT file

Deployment Manager in Documaker Desktop version of Studio (wsstudio.exe) includes an option to generate a form.dat file. The resulting file cannot and does not represent all the attributes and functionality that can be assigned to forms and sections. The generation is offered only as a means to bridge the gap while you upgrade systems that require that legacy file.

Note This feature will be useful if you have third-party applications which use Documaker FORM.DAT files. See Appendix B for more information about using Workstation Studio.

Use the new Create Form Definition Files option on the Deployment Type page to tell Studio to create the file.

Check this box to tell Studio to generate a FORM.DAT file during the deployment.

If you select a library deployment, specify the effective date to use in the FORM.DAT file. If you select a flat-file deployment, you specify the effective date on another page and the FORM.DAT file uses that date.

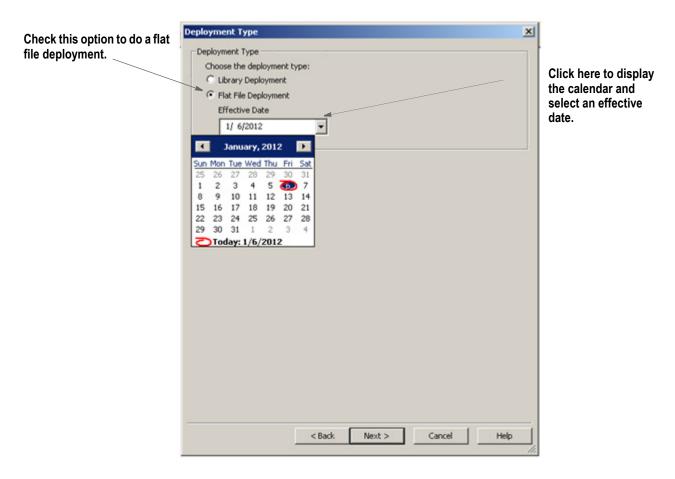
Note Import Workspace Files in Workstation Studio will not prompt you for the location of DDT files when importing Sections (*.FAP files.) Although checking this option tells Studio to create a compatible FORM.DAT.file for a given effective date, the actual deployment is not configured to use that FORM.DAT file. The deployment will be set up to run with the (newer) Studio standard file types)

CREATING A FLAT-FILE DEPLOYMENT

In a flat-file deployment, resources are extracted from your development library and copied as external files (and not as a library) to the appropriate directory structure in the destination. Studio selects the resources it will move based on the effective date you enter.

To do a flat file deployment:

1. Check the Flat-File Deployment option and enter an effective date.



×I

2. Once you have finished, click Next to go to the Library Resources window.

By default, Studio checks this box for you.

Clear this checkbox if you want to use a promotion script to select specific resources.

Save Promotion Library Definition rary Scripts Browse Script Delete Script			
Save Promotion Library Definition rary Scripts Browse Script Defete Script rget Library Values Library Options Mode Status Class Project	Use Effective Date	1/ 6/2012	
rary Scripts Browse Script Delete Script rget Library Values Library Options Mode Status Class Project	Save Promotion Library Definition		
Browse Script Delete Script rget Library Values Library Options Mode Status Class Project			
rget Library Values Library Options Mode Status Class Project			
rget Library Values Library Options Mode Status Class Project			
rget Library Values Library Options Mode Status Class Project			
rget Library Values Library Options Mode Status Class Project	Brown Script Delete Societ	1	
Library Options Mode Class Project	browse script Delete script		
Library Options Mode Class Project			
Library Options Mode Class Project			
Library Options Mode Class Project			
Mode Status Class Project			
Mode Status Class Project	rget Library Values		
Status Class Project	Library Options		
Class Project	Library Options		
Project	Library Options		
	Library Options Mode Status		
Description	Library Options Mode Status Class		
	Library Options Mode Status Class Project		
	Library Options Mode Status Class Project		
	Library Options Mode Status Class Project		
	Library Options Mode Status Class Project		
	Library Options Mode Status Class Project		

- 3. Indicate if you want to use all the library resources.
 - If you remove the check from the checkbox and click the Browse Script ٠ option, Studio lets you select specific library resources to deploy.
 - Click the Browse Script button to select the promotion scripts you want to ٠ use to move resources to the deployment destination. You can delete the promotion scripts if needed.
- Use Library manager to create promotion scripts. Note
 - 4. Once you have identified the library resources you want to send to the deployment destination, click Next to go to the Additional Resources window. For more information, see Additional Resources on page 827.

ADDITIONAL RESOURCES

You may have files that are not stored in the library but are required by your runtime setup. You use the Additional Resources window to include these kinds of non-library resources in a deployment.

The Additional Resources window lets you define a list of groups that contain supporting files to copy to the destination deployment.

tesource Groups:	
(4) 🙆	
Group options	
	Add Group
Vew Group	
	Delete Group
	Add File
Remove Originals	
Include Subdirectories	
Group Name:	New Group
Source Directory:	
Destination Directory.	C:\FAP\DLL\DeployTest

As a rule, Studio expects to copy a file to the same *relative* location in the destination as the directory name where it resides in the development source. For instance, if there are DFD files in the DEFLIB\ directory of your development workspace, then Studio expects to copy these files into the DEFLIB\ location within the deployment. Likewise, DAT files found in the TABLES\ subdirectory of the workspace would be copied into the TABLES\ subdirectory of the destination location.

This helps make sure the deployments resemble the development environment and also reduces the number of configuration (INI option) changes you have to make when synchronizing resources.

For each group shown in the window, you can include or exclude those resources from the deployment process by simply checking or unchecking the appropriate box.

If you should want to include only certain files of a given category, you can drill down to the individual file list and check or uncheck the files included in that list. The Other Resources category is where you identify files that are not known to the workspace. Here you can add files including the source location and destination location where the file should be copied.

When you finish identifying the additional resource files you want included in the deployment, click Next to go to the INI Settings window.

MODIFYING THE INI SETTINGS

You can modify INI options for your deployment. The INI options shown here are for your deployment not the currently open workspace.

By default, if this is your first time to deploy to this location, the workspace settings will be used as the basis for your deployment settings.

	asterResource INI Setting	
÷	Deployment	1
	Deployment Name	DeployTest
	Deployment Path	C:\FAP\DLL\DeployTest
•	INI Settings	
	BASEDEF	FinalFDBTest
	BDFFILE	DeployTest_DEV
	BDFLIB	BDFLib\
	DALFILE	DeployTest_DEV
	DDTFILE	DeployTest_DEV
	DEFLIB	DEFLIB\
	EDLLIB	EDLLib\
	FIELDBASEFILE	FD8.DBF
	FNTFILE	FINALFDBTEST_DEV
	FONTLIB	C:\fap\fmres\deflib\
	FORFILE	DeployTest_DEV
	FORLIB	FORLIB\
	FORMFILE	DeployTest_DEV
	FORMLIB	FORMS\
	GRPFILE	DeployTest_DEV -
	GRPLIB	GRPLib\
	HELPLIB	HELP\
	LBYLIB	DEFLIB\
	LOGOELE	DeployTest DEV

Once you finish, click Next to go to the Executable Processes window.

SELECTING PRE- OR POST-DEPLOYMENT PROCESSES

The Executable Processes window lets you specify pre- or post-deployment processes.

When you have selected the files for these processes, click Next to go to the Processing Deployment window.

Pre-Deployment Executable Processes	
Add Pre-Deployment Process	Add Pre-Deployment Process
Post-Deployment Executable Processes	
Add Post-Deployment Process	Add Post-Deployment Process

PROCESSING THE DEPLOYMENT

When you click Finish on this window, the deployment process begins and as each step is started, a check mark appears next to the task item.

As the deployment proceeds, you may see messages scrolling through the output window. These messages reflect the details of the deployment process to your deployment location.

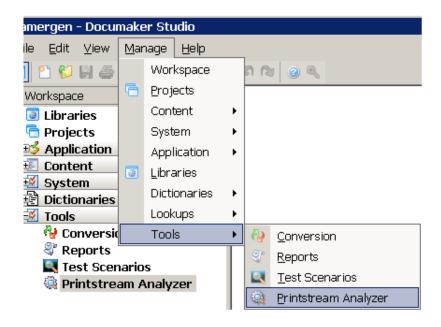
When all tasks have been completed, the Deployment wizard closes and the success or failure of the deployment is indicated in the Status message.

tatus	Tasks	
	Copy INI options	
:	Generate directories	
	Run Pre-Deployment Processes	
	Promote library files	
	Copy resource files	
	Save INI files	
	Restore INI options	
	Run Post-Deployment Processes	
omot	ion Progress	

Chapter 20

Using Printstream Analyzer

Documaker Studio includes Printstream Analyzer, which you can use to open and analyze AFP or Metacode print streams. The Printstream Analyzer is available from the workspace tree. You can also start it using the Manage, Tools menu.



Note You do not have to open a workspace to use the Printstream Analyzer.

Printstream Analyzer recognizes and opens AFP and Metacode print streams that have a variety of record delimiter types.

- AFP may be stream (unformatted), variable 2-byte, variable-blocked, CR-LF, Barr1 and Barr2.
- Metacode may be variable 1-byte, variable 2-byte, variable 2-byte inclusive, variable 4-byte inclusive, variable-blocked, xermet, CR-LF, Barr1, Barr2 or Mobius Metacode. Please note that for Mobius Metacode files, most text appears as Arial since Mobius files do not usually specify fonts in a DJDE command.

These record delimiter types are supported in Documaker by using the indicated OutMode INI option setting:

For this record delimiter type	Set the OutMode option to
AFP stream (unformatted)	This is the default OutMode setting.
AFP variable 2-byte	MRG2
AFP variable-blocked	MRG4
Metacode variable 2-byte	MRG2
Metacode variable-blocked	MRG4
Metacode Barr1	BARR
Metacode Barr2	BARRWORD
Mobius Metacode	Mobius

Note You do not need to make changes to the OutMode setting so Printstream Analyzer can analyze an AFP or Metacode print stream. You only need to set the OutMode option in Documaker so the GenPrint program will produce an AFP or Metacode print stream using a specific record type delimiter.

Printstream Analyzer does not require or access device fonts. It depends on font naming conventions to determine the characteristics of a Windows display font. When a font has an unknown naming convention, Printstream Analyzer uses Arial.

Note Printstream Analyzer does not use device font metrics. Size differences between device fonts and Windows display fonts can cause positioning errors. This is expected behavior that will be most apparent in print stream files that contain many relative moves.

USING THE RECORD VIEW AND DISPLAY PANES

The Record View pane lets you view the records in a print stream. Since AFP and Metacode print streams contain many binary, non-displayable values, much of the content of the print stream appears as a series of periods (...). The Record View pane provides a hexadecimal display of the bytes of the selected print stream record so you can see the values shown as periods.

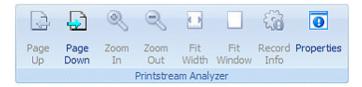
The Display pane, which you can dock and pin, provides a WYSIWIG view of the page that contains the records shown in the Record View pane. The text you select in the Record View pane is highlighted in the Display pane.

The line numbers in the Record View pane show horizontal dividers to indicate page breaks. You can click a line number to select an entire print record. Text contained in the record is then highlighted in the Display pane. A description of current record appears in the status bar.

Here is an example of the Record View and Display panes:

Record View pane	Q D/Rel I /matrice/normalize ma.	4 Þ
	7420-1211-02-005100010001000100010001000100010001000	-
	00055 444753764600074445 00000 000000000000000000000000000000000000	**
Display pane	000061 (

While working with the Record View and Display panes, you can use these toolbar icons:



lcon	Description
Page Up	Click this icon to go to the next page.
Page Down	Click this icon to go to the previous page.
Zoom In	Click this icon to incrementally zoom in on the page.
Zoom Out	Click this icon to incrementally zoom out on the page.
Fit Width	Click this icon to resize the page display so you see the entire width of the page.
Fit Window	Click this icon to resize the page display so you see the entire page in the window.
Record Info	Click this icon to display information about the record, including its location on the page, the font used, the text that appears, and so on. See Displaying Information about the Record on page 6 for more information.
Properties	Click this icon to see information about the print steam, such as its name and type, the number of records, the longest record, and the page you are viewing.

USING THE FIND OPTION

Use the View, Find option to find specific text within the print stream. For Printstream Analyzer, you can choose from a variety of value encodings. The Auto encoding follows the usual encoding for the print stream you selected.

In AFP, text is usually EBCDIC. In Metacode, text is usually ASCII. Comment records in Metacode are EBCDIC so occasionally it is necessary to choose EBCDIC encoding when you are searching in a Metacode print stream.

Find			
Fi <u>n</u> d What:	Page		Eind Next
Match case	;	Auto ASCII EBCDIC	<u>C</u> lose
M <u>i</u> n column: M <u>a</u> x column:	1 9999	ASCII or EBCDIC Unicode	
		OHex	More >>

Select the Hex option and enter minimum and maximum column values to find records with a particular identifier type or a carriage control byte. Click More to automatically set the Hex encoding and appropriate minimum and maximum column values for AFP and Metacode.

Here are some examples:

AFP advanced

Find		
Fi <u>n</u> d What:	D3A8AF	Find Next
Matc <u>h</u> case	Encoding Auto AscII EBCDIC	<u>C</u> lose <u>R</u> eset
Mịn column: M <u>a</u> x column:	3 OASCII or EBCDI 7 OUnicode • Hex	<< Less
Occurrence:	~	
Record <u>Type:</u> BPG: Begin Page BPG: Begin Page BPM: Begin Page Map		×
00055 !L.# 00056 !L.# 00057 !L.# 00058 !L.#	BPT: Begin Presentation Text BR: Begin Resource BRG: Begin Resource Group BSG: Begin Resource Env Group CAT: Color Attribute Table CCP: Conditional Proc Control	. 0
00059 !L.# 00060 <	CDD: Container Data Descriptor CFC: Coded Font Control	8

Metacode advanced

		0300C0005	age 5 <mark> of 78.</mark> 66662230002662330 1750057C00F60781	Display
00128 00129	Find			×
00130 00131 00132	Find What: 9		~	Find Next
00132 00133 00134	Match case		Encoding O Auto	Close
00135 00136	Search up		O ASCII O EBCDIC	Reset
00137 00138 00139	Min column: 1		ASCII or EBCDIC Unicode	
00140 00141	Max column: 1		• Hex	<< Less
00142 00143 00144	Occurrence:	~		
00145		C 0x09 C 0x01	~	
00147 00148	§+	0x03 0x09		
00149 00150	÷	I 0×89 I 0×88 p≖.		
00151 00152 00153		p üÿ0.	рвр .Äÿб.8çüó*	
00153 00154 00155			ió*üÿOÔþ6.([•] age 5 of 78.	>

Finding a Specific Page or Record

Use the View, Go To option to move the selection in the Record View pane to the first record of the page you specify or to a specific record. The Display pane changes to reflect the contents of the page that contains the newly-selected record.

Note When you first open a printstream, you may see comments and other records stored on what is considered page zero. This information does not print and the Display pane is blank for page zero.

To automatically go to the first page, select View, Options, Printstream Analyzer. Then click the Advance to First Page Break option. This tells the system to move to the first page break record when you open a printstream.

You can also right click in the Display pane when on page zero and choose Page Down to move to page one..

Go To		Here the system shows you the maximum number of records
Go to what:	Enter number: (max 161)	(or pages) in the printstream.
Page Record		
Hecolu		
ОК	Cancel	

Displaying Information about the Record

Use the Record Info option to analyze the commands in the print stream record. The command nearest to the selected position in the current record is selected in the Record Info window when it opens. When you click Ok, the selection position in the current record changes to that of the command selected in the window.

Click Copy to copy the command list to the clipboard so you can paste the command list into other applications.

Use the Up and Down buttons in the Find group to search for commands in the record.

The example below shows that an AFP PTX record is comprised of many absolute move inline, absolute move baseline, and transparent data (text) commands:

	0x12B1 (4785)	OK
SFTypeID :	0xD3EE9B	
Flags :	0x00	
	0x0000	Copy
STO : 06 F7 0x0000		
AMI : 04 C7 0x08A4		Find
AMB : 04 D3 0x0079		SCFL
	(TIISI121-CIAN112)	SCED
SVI : 04 C5 0x000B	(11)	
TRN : 07 DB Page		Up Down
TRN : 04 DB 6		
AMI : 04 C7 0x0940	(2368)	
TRN : 06 DB of		
AMI : 04 C7 0x0979	(2425)	
TRN : 04 DB 72	1000	
AMI : 04 C7 0x03CA		
AMB : 04 D3 0x00DC		
	(TIISI121-CIAN218)	
SVI : 04 C5 0x0011		
TRN : 17 DB Digita AMI : 04 C7 0x0096		
AMI : 04 C7 0x0096 AMB : 04 D3 0x0165		
	(357) (TIISI121-C1AN212)	
SVI : 04 C5 0x000B		
TRN : 10 DB Accoun		
	(TIISI121-CIAN112)	
SVI : 04 C5 0x000B		
TRN : 03 DB	,,	
TRN : 33 DB	This statement is for servi	
AMI : 04 C7 0x04C4		
TRN : OC DB 05/06/		
TRN : OB DB throu		

Printing What's in the Panes

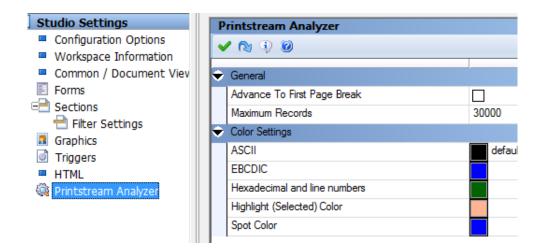
Use the Print option to print the contents of either the Record View or Display panes. When you choose the Print option from the File menu or from the toolbar, the system lets you choose from Display pane or Record View pane so you can indicate which contents to print.

Display Pane	OK Cancel

Since print streams can be quite large and printing all pages can take a long time, the Print window lets you print a range of the pages.

Customizing Printstream Analyzer

You can use the following options to customize how Printstream Analyzer works for you:



Option	Description
Advance to First Page Break	Tells Printstream Analyzer to move the selection in the Record View pane to the first page break record when a print file is opened. Some print files contain comments or other records before the first page. These comments or records are considered page zero (0). The Display pane is blank when you select page zero (0).
Maximum Records	Limits the number of records read into the Record View pane. A smaller number of records means the print file loads more quickly.
ASCII	The color used for ASCII records in the Record View pane.
EBCDIC	The color used for EBCDIC records in the Record View pane.
Hex and Line Numbers	The color used for the hexadecimal and line numbers on the sides of the Record View pane.
Highlighted (Selected) Color	The color used for highlighted text and images in the Display pane.
Spot Color	The color used for spot color text and lines in the Display pane.

Appendix A

Using the Documaker Add-in for Microsoft Word

The Documaker Add-In for Microsoft Word lets you use Word to create Documaker forms, sections, paragraphs and paragraph lists. You can then import your Word Documaker documents into Studio.

With a workspace definition file (WDF), which contains information used in the creation of Documaker documents in Word, you have access to various Studio resources while using the Documaker Add-In for Word. These resources include fields, recipients, fonts, graphics, and triggers. You can use these resources in the documents you create with the Documaker Add-In for Word, which helps promote consistency and efficiency.

This appendix is designed for:

- Project managers implementing the use of the Documaker Add-In for Word
- Personnel responsible for incorporating files imported from the Documaker Add-In into a Studio workspace
- Documaker Add-In users who want to learn what happens when the documents they create in Word are imported into Studio

This appendix discusses these topics...

- Introduction on page 841
- Understanding the Workflow on page 843
- Finding Information on page 845
- Synchronizing Fonts on page 846
- Providing Graphic Files to the Add-In on page 847
- Sharing Studio Resource Information with the Add-In on page 849
- Importing Documents Created in Word on page 855
- Completing Imported Documents on page 865

INTRODUCTION

Within the insurance carrier organization many departments and individuals are responsible for creating and maintaining document templates. The technical skill levels of these individuals vary greatly as does their knowledge of specific areas of the insurance industry and their company's processes and procedures.

A common factor within their skill set, however, is the ability to create documents in Microsoft Word. A tool that lets these authors create content in a familiar manner reduces the requirement of additional human resources and lets these individuals operate independently and with greater throughput.

Underwriters, compliance representatives, and others are responsible for ensuring the content of generated documents is accurate. In the current business process, which includes many authoring applications, these individuals first create paragraphs or complete documents in Word. This content is then sent to specialized authors who re-create the document in an advanced authoring tool, such as Studio.

In many cases the sections, variable data, and inclusion rules must be discussed multiple times before the final document template is completed. Additional input from resources such as database administrators is often needed as well.

The Documaker Add-In for Microsoft Word provides non-technical Word users with an easy way to provide Word-based content to the document automation process.

Add-In users can format text using Word to create paragraphs or full documents that can then be imported into Studio without significant editing. When creating documents in Word, the Add-In user has access to field names and graphics defined in Studio, can create new, unlinked variables and graphics, and can provide notes and settings for various document attributes such as library tags and recipients.

This figure shows the routing and re-routing of information between Word and Studio users without the functionality provided by the Add-In:

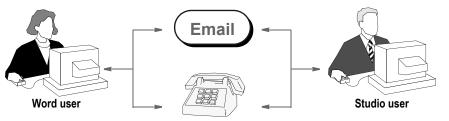


Figure 1: Information flow without the Documaker Add-In for Word

This figure shows the process with the Add-In, where the Word user can select from predefined Studio resources and provide the Studio author additional information directly within the Word Documaker document.



Figure 2: Information flow using the Documaker Add-In for Word

Word users create a document using the Documaker Add-In and send the document to Studio users to get the desired output from Documaker.

Word users create a document

and confer with Studio users multiple times to get the desired output from Documaker.

CANDIDATE DOCUMENT TYPES

The Documaker Add-In for Microsoft Word is intended to be used for documents that are predominantly flowing text or distinct blocks of content. The Add-In is intended to provide an alternate authoring environment for the text of documents. It is not intended to be a complete form design tool. Documaker Studio provides excellent, user-friendly form design functionality. The Add-In extends Word functionality to provide its user with access to non-text entities such as pre-defined variables and graphics.

There are several common document types produced within the insurance industry that suggest particular features and accompanying functionality or authoring requirements.

- Bills and statements are typically very structured documents that contain a large number of data variables laid out in a specific structure. These documents tend to include calculations and overflow logic. These documents are generally very form-like and are best authored in Studio.
- Marketing material varies between simple, short text blurbs and highlystructured, full color documents. Simple marketing statements are good candidates for Word authoring, however, the more highly-structured documents should be authored in Studio (or another design tool). The inclusion logic that determines when material is included is, of course, managed within Studio.
- Declarations are often long-flowing documents that contain highly flexible and dynamic tables. These documents may be good candidates for dual-authoring in which the text areas are authored in Word and the dynamic tables are created and managed within Studio. This is the case with many documents in which certain portions that deal with the layout of multiple data items should be authored in Studio.
- Policy documents and contracts generally contain a lot of text and very few areas of heavy data variable inclusion. Like declarations, these documents should be separated into appropriate authoring areas so long paragraphs of flowing text are authored in Word, while dynamic tables based on data variables are authored in Studio.
- Correspondence style documents may be free-flowing or highly structured and as such are candidates for either authoring tool based on the document's structure.

UNDERSTANDING THE WORKFLOW

There are several products involved in creating Documaker documents in Microsoft Word and then importing them into Studio.

Product	Description
Documaker Studio	Lets you create and maintain workspaces and workspace resource files and lets you generate a workspace definition file (WDF), which contains information used in the creation of Documaker documents in Word. Studio is also used to convert Documaker Add-In for Word documents into forms, sections, paragraphs and paragraph lists.
Documaker Add-In for Word	Lets you create and maintain Documaker documents. You can create these types of Documaker documents using the Add-In: • Forms • Sections • Paragraphs • Paragraph lists
Microsoft Word	The Add-In works with Microsoft Word 2013 and 2016.
Docupresentment Web Service	(Optional) You can set up the Add-in to submit a request to Docupresentment to get a WDF file. This is an alternative to manually generating a WDF file in Studio.

This illustration shows how Studio users and Documaker Add-In for Word users typically interact.

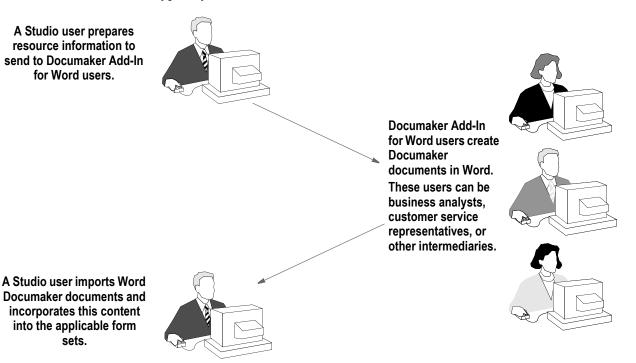


Figure 3: How Studio and the Documaker Add-In for Word Interact

The following illustration provides a more detailed task-oriented view of a Studio and Documaker Add-In for Word Workflow. This view does not include the optional use of the Docupresentment web service.

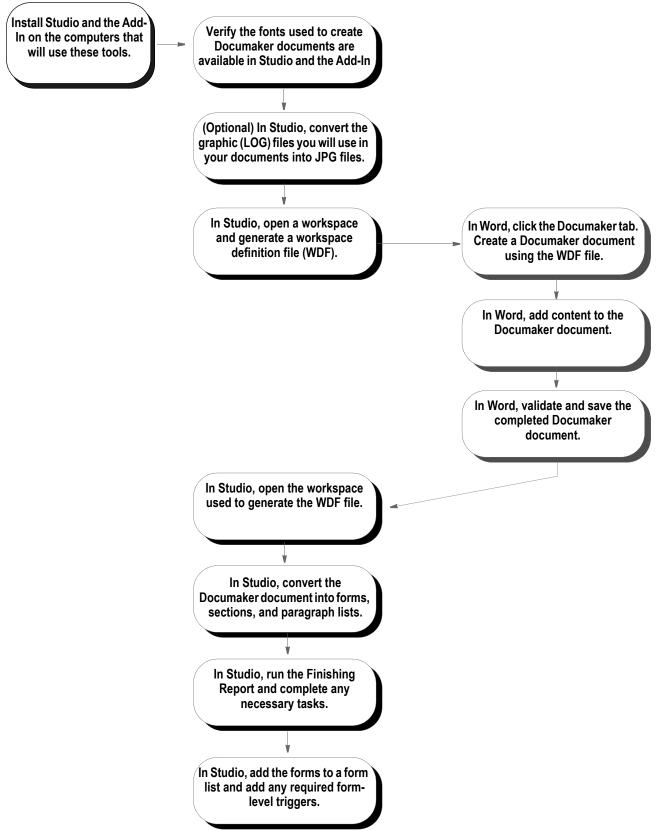


Figure 4: The Studio and Documaker Add-In for Word Workflow

FINDING INFORMATION

Here is an overview of the tasks involved in installing and setting up Studio and the Documaker Add-In for Word and where you can find more information about those tasks:

Task	For more information, see	
Install Documaker Studio and the Documaker Add-In for Word	Documaker Installation Guide	
(Optional) Set up the Docupresentment Web Service to provide resource information to the Add-In	Introduction to Enterprise Web Processing Services	
(Optional) Make sure the fonts available to Studio are also available to Word	Synchronizing Fonts on page 846	
(Optional) Convert Studio graphic (LOG) files into JPG files	Providing Graphic Files to the Add-In on page 847	
(Optional) Generate a WDF file to use with the Add-in	Generating a Workspace Definition File on page 850	
Start Word and click the Documaker ribbon tab		
Configure available WDF files using the Workspaces item in the Tools group	Documaker Add-In for Microsoft Word Online Help	
Create Documaker documents in Word		
Import Documaker documents into Studio	Importing Documents Created in Word on page 855	
Finish incorporating the documents into the library	Completing Imported Documents on page 865	

Note To change the Word UI language, you need to install Office multi-language pack. When you start Microsoft Office Language Settings in the Microsoft Office Tools menu group, you can change the UI languages from the Display Languages tab.

SYNCHRONIZING FONTS

When you import Documaker documents created using the Add-In, Studio uses the font cross-reference (FXR) file specified in your application definition file (BDF). Since document layout heavily depends on the choice of fonts, Studio tries to match the fonts in the source document to those defined in the FXR, but substitution can occur and may affect the layout. The best way to avoid layout changes is to make sure all fonts used by the Add-In are referenced in your FXR file.

Note The FXR file contains information about fonts, such as the font family name, typeface, and point size. You specify the FXR you will use for a workspace in the BDF file. When you create a workspace definition file (WDF) in Studio for use by the Add-In, Studio looks in the FXR file specified in the BDF file to get font information. This includes the font family name and the font point size. For more information on BDF files, see *Working with Application Definition Files* on page 130.

To ensure font consistency across all documents, review the font family names and make sure all fonts you will use in document creation are available to both Studio and the Add-In. If there is a discrepancy, you can resolve it by using one or both of these options:

- Import the TrueType fonts included with the Documaker installation into the Font Palette on the computers that run the Add-In.
- Import the Windows TrueType fonts available to the Add-In into your FXR file. For more information, see *Importing Fonts* on page 774.

If you import TrueType fonts into the FXR and you plan to produce those forms on AFP or Metacode printers, you should also import the AFP and Metacode equivalents of those TrueType fonts into your FXR.

Note There are legal issues to consider when using fonts from other vendors. Font vendors generally copyright the fonts they create. Make sure your license lets you use the font on more than one computer at a time. Also make sure your license lets you copy converted fonts to other platforms running on the same computer.

In addition, the Add-In provides a validation tool you can use to check the Documaker documents you create. As part of the validation process, it compares the font names defined in the Word Documaker document with the font family names defined in the WDF file imported from Studio. For more information, see the Documaker Add-In for Microsoft Word Online Help.

PROVIDING GRAPHIC FILES TO THE ADD-IN

When you insert a graphic into a Documaker Word document, the Add-In shows you a list of graphic names contained in the WDF file. Graphic file names and sizes are taken from the LOG files stored in the workspace resource library when the WDF file is generated.

If you have JPG format versions of these LOG files, you can insert the actual graphic directly into the Word Documaker document.

If you do not have JPG format versions of these LOG files, the Add-In inserts a default graphic placeholder that is the same size as the actual graphic. Here is an example of the default graphic:



Note If your implementation uses JPG files *instead* of LOG files or if you have no need to see the actual graphic when working in Word, you do not need to convert LOG files.

To create JPG format versions of your LOG files, follow these steps:

1. In Studio, choose the Manage, Tools, Conversion option. The Choose the Conversion Type window appears. Select Convert Graphic Files and click Next.

Choose the Conversion Type	rocess of converting one or more files from one format to sion you wish to perform and click Next.
Conversion type Import Document Files Convert Files to Sections Compile Sections to Print Files Convert Sections to Paragraph Files Convert Graphic Files Change Multiple Forms Change Multiple Sections Convert Bitmap Files to Graphic Files Convert Bitmap Files to Staphic Files Documerge to Documaker Tasks Change Recipients Convert an XSD File to a Data Extract	Convert Documaker graphic (LOG) files to bitmap files. You can convert to: - AFP page segments - Xerox image or font files - JPG - BMP - TIF - VIPP - LOG
	<back next=""> Cancel Help</back>

The Convert Graphics window appears.

	,	EG (*.JPG)			Brows
s to conve Source	old Name	File(0)	File(90)	File(180)	File(270)

2. Click Browse to select the graphic files (LOG) you want to convert. Then click Next. The Convert Files and Finish window appears.

Note In certain situations, such as when using a signature or company logo, you may prefer to use a placeholder rather than an actual graphic in the Add-In. Therefore, do not generate a JPG file for those graphics. This helps safeguard those files and prevents unauthorized redistribution.

3. Click the ellipsis button to specify the location where you want Studio to place the converted JPG files.

After you create the JPG files, enter the location of the graphic files folder into the Add-In's options. For more information on this and inserting graphic files, see the Documaker Add-in for Microsoft Word Online Help.

SHARING STUDIO RESOURCE INFORMATION WITH THE ADD-IN

Using Studio resource information in the Add-In makes the document creation process easier and gives you better results when you convert those documents into Studio forms, sections, and paragraph lists.

You can provide Word with these types of Studio resource information:

- Library class values
- Fields
- Fonts
- Graphics
- Form metadata
- Library project values
- Recipients
- Triggers

The Add-In uses this information to provide lists of options which are available when you are creating forms, sections, or paragraph lists in Word. This lets you insert most of the Studio resources directly into a document at creation time, which makes the process quicker and provides more consistent results.

There are two ways to provide this information to the Add-In. You can...

- Provide Add-In users with access to Studio information via a Docupresentment web service. For more information on connecting the Add-In to Docupresentment web services, see the Documaker Add-in for Microsoft Word Online Help.
- Generate a workspace definition file (WDF) in Studio and access it in the Add-In. For more information, see *Generating a Workspace Definition File* on page 850.
- **Note** Although highly recommended, you do not have to generate a workspace definition file (WDF) to use the Add-In.

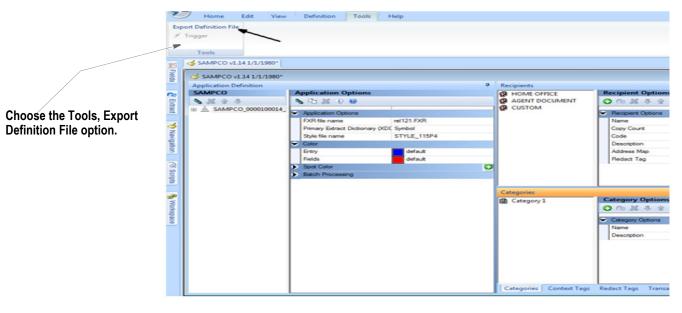
GENERATING A WORKSPACE DEFINITION FILE

Follow these steps to generate a workspace definition file (WDF) in Studio:

1. Open a workspace and check out the BDF file for that workspace.

Workspace	Ψ×
🧿 Libraries	
🕸 Application	
萎 Definition	
눱 Form Lists	
🔄 📝 Triggers	
🗐 Content	
🕺 System	
🔁 Dictionaries	
🕺 Tools	

- Note The ability to open BDF files requires the appropriate security rights. Check with your system administrator for more information.
 - 2. Select the Export Definition File option from the Tools menu.



- 3. Browse to the location where you want to save the file. Accept the default file name (WDF.XML) or enter the name you want to assign to the file and click Save.
- To accommodate mobile output, the WDF.XML also includes context tags defined in Note Application definition file.

Studio tells you the file was successfully generated in the Output area:



850

Understanding the Workspace Definition File

The workspace definition file (WDF) contains information specific to a workspace and is a snapshot of several types of resources in a workspace at the time the file is generated. The Add-In uses the information in this file to present its users with choices when they are creating Documaker Documents in Word.

The WDF file contains these types of information:

Туре	Description
Definition name and time stamp	<pre>Includes the name of the workspace definition file (WDF) and a time stamp which tells you the date and time the file was generated. Here is an example of a time stamp: <definition name="ExampleCo" timestamp="2010-03-31 18:23:55"></definition></pre>
Common fields	Includes field names, types, prompts (if defined), field length, redact tags (if defined) and context tags (if defined). This information comes from the Common Fields Dictionary in the workspace. There are three nodes (field name, type and length) in the WDF file for each entry in the Field Database Table. If a prompt is defined for a field in the Field Database Table it also appears as a node for that field in the WDF file.
Redact Tags	Includes redact tag name and description. This information comes from the redact tags defined in the Application Definition (BDF) file.
DAL triggers	Includes DAL routine (trigger) names. Triggers define the criteria that must exist for content to be included in the form set. This information comes from the trigger files stored in the workspace's library SETRCPTB.DAL file.
Recipients	Includes recipient names and descriptions. This information comes from the recipient information defined in the workspace's BDF file.
Fonts	Includes the font ID, font family, strokeweight, style and point sizes. This information comes from the font cross-reference (FXR) file assigned to the workspace in the workspace's BDF file.
Project list	Includes project names and descriptions. This information comes from the INI files of the workspace.
Class list	Includes class names and descriptions. This information comes from the INI files of the workspace.
Graphics	Includes the name of each graphic, plus its height and width. This information comes from the graphic files (LOG) stored in the library of the workspace. It includes the name of the graphic and the height and width of the graphic. The height and width values are specified in inches.
Metadata	Includes the Metadata name. This information comes from form files (FOR) stored in the library of the workspace.

Note This file is in XML format.

Here is an example of a workspace definition file (WDF).

```
<?xml version="1.0" encoding="UTF-8"?>
<Definition Name="ExampleCo" TimeStamp="2017-05-01 06:10:56"</pre>
Version="12.6">
<CommonFields>
      <Field Name="Address Line 1">
      <Prompt>Please enter the Number and Street Name</
Prompt>
      <Type>Alphanumeric</Type>
      <RedactTag>Confidential</RedactTag>
      <Length>35</Length>
      <Required>false</Required>
      <NoUserEdit>false</NoUserEdit>
      <Locale/>
      <Scope>Section</Scope
      </Field>
</CommonFields>
. . .
<DALTriggers>
      <Routine Name="SampleTrigger"/>
</DALTriggers>
. . .
<MRO Enabled="true"/>
. . .
<RedactTags>
      <RedactTag Name="Confidential">
      <Description>Confidential data</Description>
      </RedactTag>
</RedactTags>
. . .
<Recipients>
      <Recipient Name="AGENT">
      <Description/></Recipient>
      <Recipient Name="Client">
      <Description>Client Copy</Description>
      </Recipient>
</Recipients>
. . .
<Fonts>
      <Font ID="24010">
      <Family>Albany AMT</Family>
      <Size>10
                </Size>
      <Style>0</Style>
      <StrokeWeight>0</StrokeWeight>
</Fonts>
. . .
<LibraryProjectList>
      <Project Name="P001">
```

```
<Description>Project 001</Description>
      </Project>
</LibraryProjectList>
. . .
<LibraryClassList>
      <Class Name="GA">
      <Description>Georgia resource</Description>
</LibraryClassList>
. . .
<Graphics>
      </Graphic>
      <Graphic Name="JANEDOE">
      <Height>0.42</Height>
      <Width>1.87</Width>
      </Graphic>
</Graphics>
. . .
<Sections>
      <Section Name="CIM"/>
      <Section Name="CL000"/>
      <Section Name="CLF00"/>
      <Section Name="CLF00~2"/>
</Sections>
. . .
<Paragraphs>
      <Paragraph Name="UIM"/>
      <Paragraph Name="UIM~BOLD"/>
      <Paragraph Name="UIM~ITAL"/>
      <Paragraph Name="UIM~MIX"/>
</Paragraphs>
. . .
<ParagraphList>
      <PSL Name="UIM" Description="">
      <Paragraph Name="UIM" Description=""/>
      <Paragraph Name="UIM~BOLD" Description=""/>
      <Paragraph Name="UIM~ITAL" Description=""/>
      <Paragraph Name="UIM~MIX" Description=""/>
   </PSL>
</ParagraphList>
. . .
<Metadata>
      <Info Name="metadata"/>
      <Info Name="day"/>
      <Info Name="Georgia"/>
</Metadata>
. . .
</Definition>
```

This example WDF file includes information about fields, DAL triggers, recipients, fonts, projects, classes, and graphics. For more information on how to use a WDF file in Microsoft Word, see the Documaker Add-in for Microsoft Word Online Help.

IMPORTING DOCUMENTS CREATED IN WORD

For best results, import Add-In Documaker documents into Studio resources in the same workspace used to generate the workspace definition file (WDF). Otherwise, resource compatibility issues, such as incorrect fonts or graphics, are likely to occur.

When you import Documaker documents, Studio converts those documents into forms, sections, graphics, paragraphs, and paragraph lists. You should perform several trial Word to Studio conversions without checking the imported document resources into the library. This lets you make sure the document composition process you are using in Word provides the results you want in Studio. See also *Understanding the Import Process* on page 862 for more information.

Depending on the Studio conversion, you may need to refine the way you are composing documents in Word. If a resource is not checked into the library during the trial conversion process, you then have the choice of checking it into the library if it is what you want or deleting it if you want to do more work in Word before importing it again.

Note After documents are imported, you decide whether the imported resources should be checked into the library or stored on disk.

If you elect to store the files on disk, you specify the disk location for the file or files on the last page of the conversion wizard. Any file that is not checked into the library can later be deleted in Windows just like any other file.

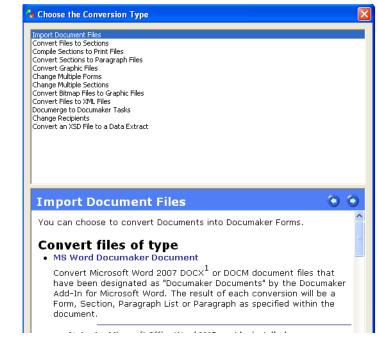
When you are confident that your documents from Word are converting correctly into Studio resources, you may want to continue to use a small number of documents in a batch conversion until you get a good feel for the length of the conversion process. The length of the conversion process is affected by both document complexity and the number of documents.

Microsoft Word 2013, and 2016 must be installed on the computer where the Word to Studio conversion takes place. Be sure to close all of the documents you are importing before you start the conversion process. Also, avoid using Word on the computer during the conversion as this may conflict with the Word automation used by the conversion.

To import Documaker documents created in the Add-In, follow these steps:

1. Open your Studio workspace. Then select the Manage, Tools, Conversion option. The Choose the Conversion Type window appears.

Note If your Studio theme is set to Office 2007, click the Conversion icon in the Tools group.



2. Select Import Document File option as the conversion type. Click Next. The Choose Files to Convert window appears.

Choose Files To Convert

Select the type of files you wish to convert, then click the Browse button to select the files. Once

you have selected the files you wish to convert, click Next to continue.

Convert files of type:

Mis Word Documaker Documents

Files to convert

Old Name

New Name

Type

Browse...
Browse Folder...
Delete Row
Clear Grid

3. Select the MS Word Documaker Documents option. Then click Browse to locate the Word Documaker documents you want to import or use the Browse Folder button to select the folder that contains the files to be imported. You can also select Search Sub Folders to find files in sub folders. The Browse Folder button changes to a Stop button that lets you end a search.

Select the MS Word Documaker Documents option here. Depending on the size and complexity of the document, it may take several seconds to load a document. After the document is loaded, the Old Name, New Name, and Type fields appear.

Field	Description	
Old Name	This is the name of the DOCX or DOC file you are selecting to import. You cannot change this name.	
New Name	This is the name of the document specified by the user in Word in the Documaker Name field on the Document Properties, General tab. If needed, you can change the default. This name is used to identify subsequent imports of upgraded versions of the document so make sure you inform those using the Add-In user of the proper naming conventions.	
Туре	This is the type of Documaker document created in Word. Valid document types are: form, section, paragraph and paragraph list. You cannot change this field. You specify the document type in the Type field on the Document Properties, General tab in Documaker Add-In for Word when you create the document.	

Note If you are importing a form that contains sections, the sections are not listed separately as files to import. If you are importing a paragraph list that contains paragraphs, the paragraphs are not listed separately as files to import.

Click Next to continue. The Conversion Options window appears.

Conver	sion Options	
2	Specify conversion options below. The files converted to Form, Section or Paragraph Lis	
	Conversion Options	
	➡ Fields	
	Use Font ID From Common Fields Dictiona Default Field Length	50
	Graphics Graphic Graphic	
	Use Library Graphic File Options	Always, not embedded
	Name Separator	
	Conversion Options	0 0
	Name Separator Enter the character you want t elements in a file name.	o use to specify sequence
	< <u>B</u> ack	Cancel Help

4. Use the fields on the Conversion Options window to specify information about field and graphic conversions.

Option	Description
Use Font ID from Commons Fields Dictionary	Yes - The conversion checks the fields inserted on the Documaker document against fields in the Common Field Dictionary. The font ID of the matching field in the Common Field Dictionary is used for the field in the imported document. No - The font ID of the field in the Documaker document is used for the field in the imported document.
Default Field Length	Numeric Value - The conversion checks fields contained on the Documaker document against fields in the Common Field Dictionary. The length of the matching field in the Common Field Dictionary is used for the field in the imported document. If there is no matching record in the Common Field Dictionary, the value specified in the default field length is used.
Use Library Graphic	Always, not embedded - The conversion checks graphics contained on the Documaker document against graphics in the workspace's resource library. If a matching name is found, this option directs the system to use the Studio library graphic including its size. Any placeholder graphics will be replaced with the graphic from the library. The graphic is not embedded in the imported file. If same size, not embedded - The conversion checks graphics contained on the Documaker document against graphics in the workspace's resource library. This option tells the conversion to use the Studio library graphic if it is the same size as the one in the Documaker document, but not to embed it. If the graphics are not the same size, use the graphic inserted in the Documaker Word document but do not embed it. Always, embedded - The conversion checks graphics contained on the Documaker document against graphics in the workspace's resource library. If a matching name is found, this option directs the system to use the Studio library graphic including its size. Any placeholder graphics will be replaced with the graphic from the library. The graphic is embedded in the imported file.
Name Separator	Enter the character you want Studio to insert between elements of the file name. The separator can be nothing, a blank, an underscore, or any other valid Windows file name character. For example, if the name of the input document is Declaration and you choose to create separate sections you would get these results for page 1: Separator Result (nothing) Declaration1.FAP Blank Declaration1.FAP Declaration1.FAP
	# Declaration#1.FAP

To continue, click Next. The Convert Files and Finish window appears.

Effective dat	e: 1/ 1/1980	
Description:	Welcome Letter created in Word Add-In	
Mode:		
Status:	_	
Class:	GA	
Project:	P001	
ve files to disk	at location;	
:\FAP\mstrres	\amergen\FORMS\	
Form (FOR):	C:\FAP\mstrres\amergen\FORLib\	
	C:\FAP\mstrres\amergen\FORMS\	

5. Use the following fields to further define the conversion, then click Finish.

Option	Description
Check Files into Library	(Recommended) Check this field if you want Studio to check into the library imported Documaker files. Leave this field unchecked if you want Studio to save imported Documaker files to the location you specify in the Save files to Disk at Location field:
Effective Date	 (Optional) Accept the default library effective date or change the date, if necessary. The date you enter in this field is only used if no effective date has been entered for the document in the Documaker Add-In for Word. Whether the effective date being used comes from this field or the field in the Documaker Word document, keep in mind that: The effective date used on a imported form applies to any section contained in that form if you check the files into the library. The effective date used on a paragraph list applies to any paragraph contained in that paragraph list file if you check the files into the library. Effective Date is an optional field on the Document Properties, General tab in the Documaker Add-In for Word.
Description	(Optional) If a Documaker document has no description, what you enter in this field gets used as the library description for the imported resource. Description is an optional field on the Document Properties, General tab in Documaker Add-In for Word.
Mode	(Optional) Enter a mode if you are using this library feature and you want it to apply to all imported resources. Mode may not be used if Projects (see System Settings) is activated in this workspace. You cannot set up modes in the Documaker Add-In for Word.
Status	(Optional) Enter a status if you are using this library feature and you want it to apply to all imported resources. Status may not be used if Projects (see System Settings) is activated in this workspace. You cannot set up statuses in the Documaker Add-In for Word

Option	Description
Class	If a Documaker document has no value for Class, then what you enter in this field is used as the library class value. If the Projects option (see System Settings) is turned on for this workspace, you should select a class or blank from the list. Class is an optional field on the Document Properties, Advanced tab in the Documaker Add-In for Word.
Project	If a Documaker document has no value for Project, then what you enter in this field gets used as the library project value. If the Projects option (see System Settings) is turned on for this workspace, you should select a project or blank from the list. Project is an optional field on the Document Properties, Advanced tab in the Documaker Add-In for Word.
Save files to disk at location:	This option is available only when Check File into Library is not selected. Files from a conversion that could potentially be saved to this location are FAP files (sections), PAR files (paragraphs), and LOG files (graphics).
Form (FOR)	This option is available only when Check File into Library is not selected. Files from a conversion that could potentially be saved to this location are FOR files (forms) and PSL files (paragraph lists).
Graphic (LOG)	This option is available only when Check File into Library is not selected. Files from a conversion that could potentially be saved to this location are LOG files (graphics). Use this option to specify the pathing location for LOG files when LOG files do not reside in the same folder as FAP files (sections) and PAR files (paragraphs).
Save the FXR	This option is activated only when a normalized AFP or Metacode file, where the fonts are embedded in a print stream, is being converted.

Note Files imported and saved to disk do not retain the values entered into the following fields: Effective Date, Description, Mode, Status, Class, or Project. If you check one of the imported resources into the library at a later time, you will need to specify any applicable information again.

[08:50:49PM] Begin Conversion	
[08:52:57PM] Starting Microsoft Word	
[11:49:06PM]	
[11:49:06PM] Started Conversion at 11:49:06 PM	
[11:49:06PM]	
[11:49:06PM] Conversion, type: MS Word Documaker Documents	
[11:49:06PM] C:\Documents and Settings\word add -in documents\Welcome Letter - General.docx	
[11:49:06PM] Document type: Form	
[11:49:06PM] Recipient <loss payee=""> is a placeholder : Loss Payee</loss>	
[11:49:06PM] Staple: <staple form="" set="" the="" with=""></staple>	
[11:49:07PM] Processing Field <insured name=""></insured>	
[11:49:07PM] Processing Field <insured address1=""></insured>	
[11:49:07PM] Processing Field <insured address2=""></insured>	
[11:49:07PM] Processing Field <insured city=""></insured>	
[11:49:07PM] Processing Field <insured state=""></insured>	
[11:49:07PM] Processing Field <insured zip=""></insured>	
[11:49:07PM] Processing Field <policy nbr=""></policy>	
[11:49:07PM] Processing Field <insured name=""></insured>	
[11:49:07PM] Processing Field <insured name2=""></insured>	
[11:49:07PM] Processing Field <product></product>	
[11:49:07PM] Field <product> is a placeholder : Alphanumeric (30) Local</product>	
[11:49:07PM] Warning: Field <product> was not found in Common Fields dictionary</product>	
[11:49:08PM] Processing Field <agent type=""></agent>	
[11:49:08PM] Processing Field <agent name=""></agent>	
[11:49:08PM] Processing Field <agent phone=""></agent>	
[11:49:08PM] Processing Graphic <sig></sig>	
[11:49:25PM] Conversion, checked into library: <welcome -="" general="" letter=""> <for>.</for></welcome>	
[11:49:25PM] Finished Conversion at 11:49:25 PM	
[11:49:25PM] Elapsed time 00:00:19	
[11:49:25PM]	
[11:49:25PM] Number of files converted: 1	
[11:49:25PM] Number of files in error: 0	
[11:49:25PM]	
[11:49:25PM] Conversion Complete	

Studio's output area provides feedback during the conversion. Here is an example.

Figure 5: Example Output Area Messages when Importing a Documaker Document

The messages in this output area example identify three specific items that need attention (emphasis added):

- A recipient named Loss Payee has been identified as a placeholder.
- A staple message is detected.
- A field named PRODUCT has been identified as a placeholder.

Detection of placeholder information (recipient Loss Payee and field PRODUCT, in this example) is seen in the output area. This placeholder information also appears on the Finishing Report and in the Task List for the Form Welcome Letter – General.

There are certain types of information about the imported documents that only appear in the output area during the conversion. This includes detecting if there is...

- Data in the Staple field This is entered in the Add-In on the Document Properties, Advanced tab and is only applicable to form documents
- Data in the Paper Stock field This is entered in the Add-In on the Document Properties, Advanced tab and only applies to form documents

- Undefined Context tags Context tags can be entered in the Add-In in Advanced Tab of the Document Properties of a Form or Section and New Field and Edit Field dialog
- Undefined Redact tags Redact tags can be entered in the Add-In in the New Field, Edit Field, New Signature and Edit Signature dialogs.

When information is written to the output area concerning the Staple field, Paper Stock field or Context tag, someone on the Studio side of the implementation needs to make the necessary adjustments. Staple and paper stock options appear in the list of form options in the Forms manager. Context and Redact tags are defined in the Application Definition File.

Note The Finishing Report can also be run to search for context or redact tag references in specified Forms, Sections, etc. but which are not defined in the BDF.

Undefined resources can also originate from within Documaker Studio.

Comments entered via the Add-In are converted to Task Comments during the conversion process. Comments do not appear in the output area during the conversion process. They are shown, however, in Studio on task lists and on Finishing Reports. See *Completing Imported Documents* on page 865 for more information.

Note Task comments can also originate from within Documaker Studio.

UNDERSTANDING THE IMPORT PROCESS

When you import a Word Documaker document into Studio, some formatting, font, and other changes can occur during the import process.

This item in the Add-in	is converted this way
Fonts	When importing Word Documaker document files, Studio compares the fonts used in the source document to the fonts described in the FXR file. If there is no exact match, Studio calculates a score based on several font attributes. This score reflects how well the attributes match. It then selects the font with the highest score. For more information, see <i>Understanding Font Mapping</i> on page 704.
Underlines	Underlines are converted.
Superscript	Superscripted text is converted to superscripted text, provided there is a corresponding font in the appropriate point size.
Subscript	Subscripted text is converted to subscripted text, provided there is a corresponding font in the appropriate point size.
Strikethrough	Stricken text is converted to stricken text.
All caps	Capital letters are converted, provided there is a corresponding font in the appropriate font size.

This item in the Add-In Is converted this way

This item in the Add-In	Is converted this way
Small caps	Converted as upper and lowercase letters, provided there is a corresponding font in the appropriate font size.
Hidden text	Not converted.
Hyphenation	Hyphenation settings are converted.
Drop caps	If within the margin, the system retains the font attributes as long as there is a corresponding font available. The text that follows the drop cap is placed in a new paragraph. If outside of the margin, the drop cap is not converted. The text that follows the drop cap is converted into a paragraph.
Tables	Each cell is converted into a box and the cell borders become the box borders. The system places the text in the cell into a text area.
Footers	Converted as a text area in the same position on the page.
Headers	Converted as a text area in the same position on the page.
Pictures and drawings	You can import polyline or vector drawings. You can also convert bitmaps in the original document into external Documaker graphic (.LOG) references.
Margins	Margins are converted. The system tries to compensate for borders defined outside paragraph margins.
Line spacing	Converted, but may change if the system substitutes fonts.
Columns	Converted as columns within a text area.
Footnotes	Not supported.
Endnotes	Not supported.
Wrap around formatting	Not supported.
Text boxes	Not supported.
Objects anchored to a paragraph	Positioned correctly.
Captions	Converted to a text areas.
Tables of contents	Converted as a text area in the same position on the page.
Merged table cells	Not supported.
Nested columns (columns within a column such as a table embedded in a column)	Not supported.
Z-ordering or the layering of objects one over the other	Not supported.
Charscalex and Charscaley control words	Not supported.
Section elements	Converted to sections (FAP files) in Studio.

This item in the Add-In	Is converted this way
	is converted this way

This item in the Add-In	Is converted this way
-------------------------	-----------------------

Paragraph elements	Converted to paragraphs (PAR files) in Studio.

If you experience these types of issues during import process, you must decide whether to make changes in the Word document using the Add-In or modify the imported file in Studio.

If you plan to maintain this document in Then

Studio	Make the adjustments in Studio.
The Add-In	Make the adjustments in the Add-In and re-import the result.

During import, sections in a form or paragraphs in a paragraph list can be replaced with the current library version of those sections or paragraphs.

For more information on this, please refer to the *Import None* and *Import All* options of Word Add-In help.

COMPLETING IMPORTED DOCUMENTS

See the table below for information about finishing activities that may appear in the output area during document conversion, on a Task List and the Finishing Report, or when viewing a resource in Studio. This table provides the necessary action to take for each type of activity.

Note For information on running a Finishing Report, see *Printing a Finishing Report* on page 755. For information on using a task list, see *Using the Task List* on page 393.

Add-In	Studio	Your response
Forms	The Documaker document is imported. Any content in the form that is not inside a named section becomes part of the form as a non-named, embedded section. You will see this when you open the imported form in Studio.	No action required, but you can • Unembed the section in Form manager • Replace it with one from the library or disk • Save the section • Unembed the section only • Enable Read Once or Skip Read Review the form and form section options and their properties and update as needed.
Sections	The Documaker document is imported. Any content in the section becomes part of the section.	No action required, but you can • Un-embed the graphic in Section Manager • Replace it with one from the library or disk • Save the graphic • Un-embed the graphic only Review any comments provided by the section creator in the sections properties. Review the section and section objects and their properties and update as needed.
Paragraph Lists		Review any comments provided by the paragraph list creator in the paragraph list properties
Paragraphs		 No action required, but you can Un-embed the graphic in Paragraph Manager Replace it with one from the library or disk Save the graphic Un-embed the graphic only Review any comments provided by the paragraph creator in the paragraphs properties. Review the paragraph and paragraph objects and their properties and update as needed.
A field is in the Documaker document, but not the Common Fields Dictionary in the workspace	The Documaker document is imported. The messages in the output area tell you that the field does not exist in the Common Field Dictionary. The Task List on the section (and a form that uses the section) or paragraph (and a paragraph list that contains the paragraph) notes the field as Undefined, meaning it does not exist in the Common Fields Dictionary. The Finishing Report notes that the field does not exist in the Common Fields Dictionary.	 No action required, but you can choose from these options: Add the field to the Common Fields Dictionary. Check for comments originating in Word concerning field type information. Note Regenerate the Workspace Definition file if you want the additional field to be available in the Add-In. Or, Replace the field on the form, section, or paragraph with one from the Common Fields Dictionary.

Add-In	Studio	Your response	
Signature	The Documaker document is imported.	Review the signature objects and their properties and update, as needed.	
Bar code and multiline text fields are in the Documaker documentStudio does not allow bar code or multiline text fields to be embedded in text areas or paragraphs. These fields are converted to stand-alone fields on the section. If Studio finds a multiline or bar code field on a paragraph list or in a paragraph file, those fields are not created and this message appears in the output area: Warning: Multiline text and bar code fields are not supported in paragraph elements.Note: The Add-In does not let you insert multiline text fields into a paragraph list or paragraph file.		No action required.	
Graphics are in the Documaker document but not in the workspaces library.	The graphic is included in the imported document as an embedded LOG file.	No action required, but if this LOG file would be useful in other Studio documents, unembed the graphic by clicking the Embedded field in the Attributes area of the Graphic Options tab. This starts the Embedded Graphic wizard which lets you unembed the graphic and check it into the library.	
Triggers are in the Documaker document but not in the workspaces library.	The undefined trigger is listed in the output area during the conversion process. The undefined Trigger is listed in the Task List of the affected resource (section or paragraph) as well as its parent (form or paragraph list). The undefined Trigger is listed on the Finishing Report of the affected resource (section or paragraph) as well as its parent (form or paragraph list).	 Choose from these options: Choose Manage, Application, Triggers to check the SETRCPTB.DAL file out of the library and add the undefined trigger. Check the updated SETRCPTB.DAL file back into the library. Or, Change the name of the trigger to one that already exists in the SETRCPTB.DAL. 	
Recipients are in the Documaker document but not in the workspaces library.	The undefined recipient is listed in the output area during the conversion process. The undefined recipient appears on the Task List of the applicable resource in Studio. The undefined recipient is listed on the Finishing Report of the applicable resource.	 Choose from these options: Choose Manage, Application, Definition to add the recipient to the BDF file. Check the updated BDF file back into the library. You could also use the Change Recipients option in the Conversion manger to perform this task. Or, Change the name of the recipient to one that already exists in the BDF. 	
Fonts are used in the Documaker document that are not listed in the FXR file assigned to the Studio workspace.	Studio substitutes fonts during the conversion process.	If the font you want was not used, change the font in Section manager or Conversion manager (Change Multiple Sections). If you are importing a Paragraph List, you may need to modify fonts in the affected paragraphs using Paragraphs manager.	
Comments are added to Documaker document and various objects, such as fields or graphics on the document	Comments from the Add-In are added to the applicable Studio file or object as task comment.s Studio displays task comments on Task Lists and the Finishing Report.	Run the Finishing Report against the imported files and perform the steps noted in the task comments. Then delete the task comments.	

Add-In	Studio	Your response		
Project and class information is in the Documaker document but not in a workspace INI file	Studio applies project and class information to the imported document if the flag to check converted files into the library is checked on.	No action required, but you can add the class and proje to the library. To do so, choose Manage, System, Setting Then under Options by Topic, choose Libraries. Expar the Library topic and click LibraryManager.		
An effective date is added to Documaker document.	Studio applies effective date information to the imported document if the flag to check converted files into the library is checked on. The form effective date is applied to all sections contained in that form. A paragraph lists' effective date is applied to all paragraphs contained in that paragraph list file.	No action required.		
Metadata is created for the Documaker document	The metadata is added to the form during the conversion.	Open the form and review the form's metadata. Click the Form Metadata button to make any changes. Properties Properties Image: Conversion of the second secon		
Paper stock information is entered on the Advanced Document Properties tab. (It can only be entered for forms.).	During conversion, the output area displays the paper stock information. Here is an example: [03:45:41PM]Document type: Form [03:45:41PM]Paper Stock: <paper stock = 1></paper 	Note the Paper Stock information shown in the output area. You can save to a file, print, email, or copy and paste information in the output area. Open the form from disk or check it out of the library. Then use the Paper Stock option to select the applicable paper stock setting. Properties Form Options CONFIRMATION Options Page Size Orientation Portrait Paper Stock None Default Recipients		

Add-In	Studio	Your response
Staple information is entered on the Advanced Document Properties tab. (It can only be entered for forms.).	During conversion, the output area displays the staple information. Here is an example: [03:45:41PM]Document type: Form [03:45:41PM]Staple: <staple -<br="">check staple on.></staple>	Note the Staple information shown in the output area. You can save to a file, print, email, or copy and paste information in the output area. Open the form from disk or check it out of the library. Then use the Staple option to turn on or off stapling. Properties Form Options CONFIRMATION Options Multicopy Overflow Pull Hidden Staple Form metadata Page Default Recipients

SUMMARY

The Documaker Add-In for Word is a powerful complement to the Documaker suite to help empower business users to create documents in a fast and efficient manner. With the Add-In, users can operate in a familiar environment while leveraging the power of the Documaker publishing engine.

For more information please refer to the Documaker Add-in for Microsoft Word Online Help.

Appendix B

Studio skins: Overview

OVERVIEW

Most options within Documaker Studio are used to create components of the Master Resource Library (MRL). Some components of the MRL, however, are built using text editors. Most components of a MRL are eventually used by the processing system, whether in a batch, a workstation, or combined batch and workstation environment.

Some components of a MRL apply to both a batch and entry environment, while others apply to one or the other. That means that, depending upon your processing environment, some of the tools may not be used in your environment.

Studio Skins: DMStudio, WSStudio, FPStudio

Documaker Studio releases 11.4 and higher include additional executables which can be used to start and use Documaker Studio with a specific personality or skin. These skins include:

- A Documaker Desktop version of Studio (wsstudio.exe)
- A version of Studio you can use to maintain Documerge EDL files (fpstudio.exe)

These skins hide functionary in some areas and add it in others. For example, there is no need for Metacode normalization in the Documaker Desktop version of Studio — Documaker Desktop does not support Documerge output — so this version hides those related field properties.

Note .These skins do not remove every unnecessary option from the interface, but only the most visible ones.

The following tables outline what is hidden and added in each of the two skins:

Workstation Studio (wsstudio.exe)

The Documaker Desktop version of Studio hides the following functionality:

- In Data Extract Dictionary
 - XDD pane
 - XDD buttons on field properties

- XDD extract reports
- In the field properties
 - Documerge information
 - Rule information
- In Import files, DDT files are hidden
- Batch Lookup Table manager
- Definition File Lookup manager
- Test manager

The XDD Lookup button in the Trigger wizard.

Deployment Manager in the Documaker Desktop version of Studio includes an option to generate a form.dat file. The resulting file cannot and does not represent all the attributes and functionality that can be assigned to forms and sections. The generation is offered only as a means to bridge the gap while you upgrade systems that require that legacy file.

Generating a FORM.DAT File

Workstation Studio (wsstudio.exe) includes the ability to specify a FORM.DAT file to be generated when you are deploying resources.

This is useful if you have third-party applications which use Documaker FORM.DAT files.

On the Deployment Type page in Deployment Manager, select the option Create Form Definition File to create the Form Definition (FORM.DAT) file.

	Deployment Type (x
Check this box to tell Studio to generate a FORM.DAT file during the deployment.	Deployment Type Choose the deployment type:	
	Options Create Form Definition File: FORM.DAT Definition Effective Date 3/31/2008	
	< Back Next > Cancel Help	

Deployment Type	×
Deployment Type Choose the deployment type: C Library Deployment Flat File Deployment Effective Date 1/23/2017	
_ Options	
Create Form Definition File: FORM.DAT	
< <u>B</u> ack <u>N</u> ext> Cancel	Help

Deployment Type:

Library Deployment:

Choose this option to deploy the resources to a library. When Library Deployment and Create Form Definition File are both selected, the system displays the Definition Effective Date Field which allows you to specify the effective date to use for the FORM DAT file.

Flat-File Deployment

In a flat-file deployment, resources are extracted from your development library and copied as external files to the appropriate directory structure in the destination. The selection of the proper resources from the development library will depend upon the effective date that you specify.

Check the Flat-File deployment option if you choose to not to deploy a library and enter an effective date. You can use the effective date to filter resources on and after the date entered. Click the down arrow to display a calendar from which you can select the effective date you want to use. Press **Esc** key to remove the calendar.

Note The Create Form Definition File option allows Studio to create a compatible **FORM.DAT** file for the given effective date. The actual deployment is not configured to use the FORM.DAT file. The deployment will be set to run with Studio standard file types.

Documerge Studio (fpstudio.exe)

This version of Studio for Documerge hides the following functionality:

- In Data Extract Dictionary
 - XDD pane
 - XDD buttons on field properties
 - XDD extract reports
- In the field properties
 - Rule information
 - Entry options
 - Paragraph List manager
 - Paragraph manager
 - Paragraph assembly
 - Date information
 - Time information
 - Bar code information
 - The following attribute information:
 - Scope
 - Send copy to
 - Required
 - Text Area/MLE options
 - Hidden
 - No Print
 - Underline
 - Strikeout
 - Locale
- In Section manager
 - Bookmarks
 - Charts
 - Guides
 - Indexes
 - Notes
 - Vectors

- Signature objects
- Links for all objects
- The Import Workspace files option skips DDT files
- Batch Lookup Table manager
- Entry Lookup Table manager
- Definition File Lookup manager
- Help Lookup Table manager
- Test manager
- Business Definition manager
- The Group Begin/End options in Form manager
- Trigger manager
- Form Lists manager
- Deployment manager
- The Report manager hides these reports:
 - Application Definition
 - Paragraph Selection List
 - Form List
 - Section Usage
 - Trigger

Appendix C

Handling Overflow

Overflow is defined as the manner in which Documaker handles having multiple records of the same type, and the need to output information from each of the multiple records at print time. The use of overflow is based upon the assumption that there is usually a relationship between the data occurrence you want to map and the form and/or page segment (FAP file) occurrence where the fields are defined. Setting up for overflow involves both special triggering and special data mapping requirements.

Overflow printing can be any number of different print scenarios, for example:

• Overflow Scenario A: Customer A has 35 treatment records. The Medical History form needs three pages to completely print all the Treatment records for Customer A's transaction. The first two pages have the Treatment record section (ex. 'Medbody1') repeated 15 times, but the third page only needs to reuse it 5 times. This would be Section overflow.

or

• Overflow Scenario B: Customer A has 35 treatment records. The Medical History form should only print 5 records per form page. Therefore, it will take 7 pages to print all of Customer A's medical history. This would be Section overflow.

or

• Overflow Scenario C: You want the Medical History form itself to be produced every time it needs to overflow, or print, more than 5 records per page. In other words, records 1-5 print on the first Medical History form, then it prints the footer with a **Page 1** on it. Then, Documaker prints another entire Medical History form, with records 6-10 on it, and then the footer with **Page 1** on it again, and so on. This would be Form overflow.

or

• Overflow Scenario D: The Medbody1 section contains overflow fields. Every time this section is used, on any form, you want it to overflow as needed to print Treatment records. This would be Formset(Section) overflow.

The options for overflow allow a record count to be used to generate a set number of sections per page of one single form, or to trigger a repeat printing of an entire form (headers, footers and other non-overflow sections included) at a set record count.

Therefore the three types of overflow configuration are:

- *Form*: Repeat the entire form each time you overflow a field (or set of fields)
- *Formset (Section)*: Repeat a Section each time you overflow a field (or set of fields) but the section occurs on multiple forms.
- *Section*: Repeat a section on a specific form each time you overflow a field (or set of fields).

Section overflow is the most common type of overflow. It is important to remember that Overflow is a combination of settings in different parts of Documaker Studio. These settings work together to provide the flexibility to handle different overflow scenarios. The places you need to work to achieve overflow are:

- Form and Section triggers
- Form and Section print options
- Field mapping properties, either on the field or in the XDD

Note Version 11.2 changed the way you map overflow. Overflow mappings defined using the prior method are not affected. The prior method may, in fact, prove useful to handle some specific and more complicated overflow situations, such as when the variables are not being mapped onto repeating page segments of the same name.

Data Mapping and Overflow

The Overflow Multiplier and the Overflow field parameters are key to working with overflow. These properties tell Documaker what type of overflow to perform— Form, Section, or Formset(Section)--and how many occurrences of data are used within each instance of the section. They appear in several places in Studio:

• On the field properties pane in the section:

	ield Options		
C) 🗶 ٵ 🕨 🚳	۸ 🔍 🔍 🔍	
_	Туре	Alphanumeric	
	Length	14	
	Format		
	Task Comments		
►	Coordinates		_
►	Attributes		
►	Documerge		
÷	Rule		
	Rule	XDD	
	Destination Offset	0	
	Source Name	DETAIL_QUESTION/#12751	
	Source Offset	0	
	File	0	
	Length	0	
	Record	0	
	Required	Not	
	Overflow Multiplier	0	
	Overflow	Default 💌	
	Mask	Default	
	Data	Form Formset (Section) None Section	

• On the Form Section Options pane in the Form manager:

MEDICAL HISTORY USING	Form Section Options		Page 1		
🗎 🗶 🔒 🦊	🗶 🖹 🗲 🥘 🎯			TrainingCompany Life	and II: Mandatory Me
Page	✓ MEDBODY1			liasi history is required for TrainingCompany deboy for all ages in every state for all pers noses, dates, physiphers, and other medical e. This information will be doned for a local	Life 8. to cover any and all policy ons involved. Give details of "Ves" practitionems. Show addresses and
MEDHEAD1	Name	MEDBODY1			
MEDHEAD2	Options	Entry and print	8		
E Body	▶ Page		<u>101</u>		
HEDBODY1	♥ Options ■		7		
🖳 Footer	Printer resident		<u>6</u>		
✓ MEDFOOT1	Background Section		9:		
	Copy on overflow		6		
	Can grow		9		
	Embedded		2		
	Position		ŏ		
	▶ Information				
	Section rules		C		
	➡ Field Overflow Defaults		- i		
	Overflow	None			!!
	Overflow Multiplier	Form			
	 Section Recipients 	Formset (Section)	9:		
	AGENT	Section			
	HOMEOFFICE	1 Copy	<u>9</u>		
	INSURED	1 Copy	6 • - · -		

• In the Extract Dictionary (XDD) overflow field entry:

Navigation Tree 📮	Item Properties			
SYMBOL	Extract			
O 🗶 🜒 🔮 🕸	C 🗶 🖲 谢			
Extract Dictionary Extract Dictionary Extract Dictionary Extract Dictionary Extract Dictionary Extract Dictionary Extract Distribution DalRULCHANGELOGO DalRULSUBJECTIVE DalRULSUBJECTIVE DalRULSUBJECTIVE DalRULSUBJECTIVE DalRULSUBJECTIVE DALRUSUBJECALOLATION Extract Distribution INSURED Extract Divestmentsubmary Extract Distribution Extract Distri	♥ Options Name Parent Offset Length Rule Required Type Locale Mask Table Index Value Overflow Multiplier Overflow Conditional Description Search Mask is an XPath Data Unique Identifier	DETAIL_ANSWER TREATMENT 0 200 MOVE_IT Not Alphanumeric Neutral 0 1 Section Default None Section Form Form Form Form Form Form Form Form		

These describe what type of overflow to use. They may also be used with the *Record* field if you are printing a set number of records per overflow document (overflow scenarios B and C described above). These settings are used in combination with trigger settings to configure overflow.

Note The Record field is only available on the field Rule properties pane in the Section manager, not in the XDD. For this reason, when using Record count in overflow, it is easier to map data fields in the Section instead of the XDD.

Field	Description
Record	 Points to a specific record node in the data extract file. Studio adds the value you enter to the current overflow calculation to reach the correct occurrence of the data to retrieve from the source file. If you enter 1 (or 0), Studio uses the occurrence calculation without modification— it uses the first record it finds. If you enter 2 or higher, it tells Studio that you want to reach the second occurrence value at the current calculation and so on. The exact overflow calculation is determined by using the Overflow Multiplier and Overflow fields. The default is zero (0).
Overflow Multiplier	Use this field to indicate the number of times the field is repeated on the section. Enter a value greater than 1 to tell Studio you want to use record counting overflow calculations. The resulting calculation is then added to the Record field to determine the exact overflow occurrence you are trying to map. The default is zero (0).
Overflow	 Use this field to indicate overflow is required. The option you select here defines how the occurrence will be calculated. Pecord 0 Pecord Not Overflow Multiplie 0 Overflow Multiplie 0 Overflow Town (Section) None Section Section Form - Choose Form if this field appears on a repeating form. This implies there is a different form for each instance of the data. Form - Choose Form if this field appears on a repeating form. This implies there is a different form for each instance of the data. Form - Choose Form if this field appears on a repeating form. This implies there is a different form for each instance of the data. Formset (Section) - Choose Formset (Section) if the section that contains the fields is repeated within the document, but is not limited to the same form. This means counting the matching section names from the start of the document, without regard to the actual form, determines the value to use in the overflow occurrence calculation. Section - Choose None if you want to exclude this data field from overflow calculations. This tells Studio that you will handle this field's mapping independent from any overflow that might be specified at the section level. You do not have to set the field Overflow value to None if the section Overflow rolever is set to None.

XML mapping for overflow

When mapping data elements from an XML input file, you add the following symbols to the child record to be used in any overflow scenario:

```
[****]/data node
```

An example would be using a Question node and a Details node that reside under a Treatment record in an XML file to trigger overflow. The Xpath to these records is:

```
!/TRAININGCOMPANY/DATA/TREATMENT/DETAIL_QUESTION
!/TRAININGCOMPANY/DATA/TREATMENT/DETAIL_ANSWER
```

In the XDD, the Treatment record would be a Parent, with its xpath in the Data field entered this way:

!/TRAININGCOMPANY/DATA/TREATMENT

In the XDD, these would be children of the parent TREATMENT record, and their Data field entry would reflect the format shown here:

O 😹 ٵ 🖬 🕆 🐥	0 2 9 1	0			
	- Options				
AGENTPHONE	Name		DETAIL_QUESTION		
AGENTPHONELOOKUP	Parent		TREATMENT		
⇒ AGENTSTATE	Offset		0		
	Length		14		
	Bule		MOVE_IT		
CUSTSERVOPENTIME	Required		Not		
CUSTSERVPHONE	Type		Alphanumeric		
	Locale		Neutral		
	Mask				
	Table Index Value		0		
CALRULSUBJECTLINE					
CALTRGINSUREDAGECALCULATIC	Overflow		Section	Section	
	Conditional No		No		
	Description				
		sk is an XPath	Yes		
	Data		[""""]/DETAIL QUESTION		
INVESTMENTSUMMARY MARKETING	Unique Ider	otifier	1275144331	100	
SYSDATE	🚰 Data				
	-				
DETAIL_ANSWER	[*****]/DETAI	IL_QUESTION		ОК	
				Cancel	
- A CORD				Cancer	
Spreadsheet View					

Or the mapping can occur on the field on the section, and the [****]/data node would occur on the Data field in the Rule section of the field properties pane:

!/TRAININCOMPANY/DATA/TREATMENT[****]/DETAIL_QUESTION
See Sample XML used in Examples on page 893.

Where Is Overflow Specified?

Where you specify the type of overflow has to do with whether you always want overflow to occur when using this section [Formset(Section)] or whether it happens when this section is used on a specific form (Section) or whether the form is going to overflow (Form). Where you mark the Occurrence and Records per overflow section depends on whether you need Form or Section overflow.

The XDD can be used to specify field overflow values, rather than the field properties on the section, when you always want overflow to occur when you use this section. But in situations where you need to use the *Record* field to specify which node propagates the data, you might want to use the section instead to specify overflow and other mapping entries. That is because you have to use the record field in the section since the record field is not available in the XDD. In these cases, it is easier to follow if all mapping and overflow entries are in one place; in this case, the section.

Triggering and Overflow

Another place you configure overflow is on the form and/or section trigger. The Advanced option in Form (Form List manager level) and Section (Form manager level) triggers is used in an overflow configuration as well:

	AL Trigger Options	
÷	Trigger	
	Name	TREATMENT
	Description	
÷	Advanced	
	Transaction codes	
	Occurrence Flag	1
	Records on different first section	
	Records per overflow section	

The options shown here are available on either DAL triggers or Manual triggers, and work the same way. In this way triggers can work as counters, keeping track of the number of records it encounters, and reusing the section or form as often as you specify.

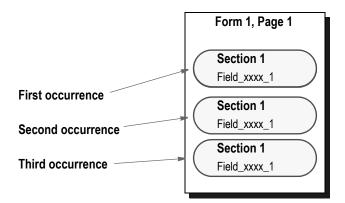
Again, in a Form overflow scenario (Scenario C in the previous examples), you would enter Occurrences, and so on, on the Form trigger. In a Section or Formset(Section) overflow, use these settings on the Section trigger.

Using the counter function:

Trigger field	Overflow use						
Occurrence	To use the search mask as a counter, the Occurrence Flag (overflow) must be set to one (1). Use with the Search Mask Counter, Records on Different First Section, and Records Per Overflow Section fields. (0=no overflow and 1=overflow).						
Records on different first section	Lets you indicate the number of records that appear on the first Section before overflowing to a new Section.						
Records per overflow section	Lets you specify the number of records matching the search mask that will fit on the specified overflow Section. If the value is zero (0) and the Occurrence Flag is set to one (1) with the Search Mask Counter set, the system automatically sets this flag to one (1) to perform the overflow calculations. Keep in mind that the section, and fields on the section, must be designed to match this setting.						

Section overflow example

In this example of section-level overflow, Field_xxx_1 repeats on Section_1.



Field	Value
Record	1
Overflow	Section
Overflow Multiplier	1

User Functions

In addition, you can use these user functions:

Function	Description
GetImage	Use this function to return the image's sequence number of like named sections within the current form. For compatibility with the field rule record functionality, all counts are zero (0) based.
GetForm	Use this function to return the form's sequence number of like named forms within the form set.
GetFormSetImage	Use this function to return the section's sequence number of like named sections within the form set.

If you are using XML extract files, you can use these user functions to set up incrementers at the form and section level. Otherwise, Studio handles the use of these functions for you when you enter overflow information on the properties window.

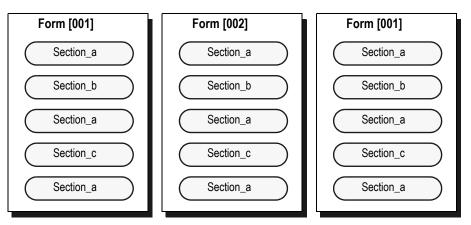
Note These functions correspond to the options you can choose for the Overflow field: Section, Form, Formset(Section).

You can assign these user functions to fields. There are additional options when assigning them to fields:

Option	Description
None	Choose None to indicate the field does not use overflow.
Default	Choose Default to use overflow assigned at the section level.

In the Form manager, you can assign overflow at the section level. The three user functions and the None option are available to the section. Any function set for a section will be used on all overflow fields that are set to Default.

Keep in mind that the value for @GetImage, @GetForm, and @GetFormSet, is not the section or form sequence number, but the section or form sequence number for sections or forms with the same name. For example, if you have a form set with these forms:



These values are returned when using the @GetImage ("Image"), @GetFormsetImage ("Formset(Image)") and @GetForm:

Form	Section	GetImage	GetFormsetImage	GetForm
001				
	а	1	1	1
	b	1	1	1
	а	2	2	1
	с	1	1	1
	а	3	3	1
002				
	а	1	4	1
	b	1	2	1
	а	2	5	1
	с	1	2	1
	а	3	6	1
001				
	а	1	7	2
	b	1	3	2
	а	2	8	2
	С	1	3	2

Form	Section	GetImage	GetFormsetImage	GetForm
	а	3	9	2

The RunTriggers rule evaluates the form trigger, if the form is triggered. The rule then triggers each of the section triggers before it evaluates the next form trigger. This lets you do regressive form triggers from the section level.

These examples show the rule data entry for an XML file:

!/status/summary/staff[**@GETIMAGE**]/inProcess

This returns the *inProcess* data element for the X occurrence of the staff section where X is equal to the section's sequence number in the form (zero based) plus the field rule record count.

!/status/summary/staff[**@GETFORMSETIMAGE**]/assigned

This returns the *assigned* data element for the X occurrence of the staff section where X is equal to the section's sequence number in the form set (zero based) plus the field rule record count.

!/status/summary/staff[**@GETFORM**]/onHold

This returns the *onHold* data element for the X occurrence of the staff section where X is equal to the form's sequence number (zero based) plus the field rule record count.

!/status/summary[**GETFORM**]/staff[**@GETIMAGE**]/closed

This returns the *closed* data element for the X occurrence of the summary section where X is equal to the form's sequence number (zero based) plus the field rule record count and the Y occurrence of the staff section where Y is equal to the section is equal to the section's sequence number in the form (zero based) plus the field rule record count.

Legacy Overflow Variables

With Studio, overflow variables that require only a single increment per use are created for you. You no longer have to declare an overflow variable for your form sets in the AFGJOB.JDT file.

For example, you no longer need to enter these lines from your AFGJOB.JDT file:

```
;SetOvFlwSym;1;DATIOOVF,QDATIO,1;
;SetOvFlwSym;1;MNUM1OVF,QMVNUM,4;
;SetOvFlwSym;1;AGDTDATAOVF,QAGDTD,1;
;SetOvFlwSym;1;CGDECBDOVF,QCGDCB,1;
```

Each of these lines declares a simple overflow variable with a single increment step. When using Studio, these variables are automatically created if you omit them from the AFGJOB.JDT file.

The system creates single increment overflow symbols regardless of whether you are using the legacy or Studio model.

If *all* of your overflow situations can be handled using this overflow methodology, you may no longer need the InitOvFlw and ResetOvFlw rules from the AFGJOB.JDT file. These rules are only necessary if you have an overflow situation that uses the legacy method of handling overflow -- not the method described in this topic. For instance, even if you are only using the legacy method in one scenario, you must still include the SetOvFlwSym, InitOvFlw, and ResetOvFlw rules in your AFGJOB.JDT file.

Note You may also no longer need the IncOvSym section-level rule.

Example1: Configure section overflow for Medical History form, overflow multiplier = 1

We want to set up the Medical History form to repeat the Medbody1 section (the treatment questions and answer records) as many times as needed until they are all printed. Remember we are using another header (Medhead2) for pages 2-end of the form if it flows to more than one page. (See *Example Form* on page 25).

Step A:Set up the data fields to overflow

- We already have our XDD configured with our data mapping, so we can specify field overflow there as well. Open the Symbol.XDD file from the library.
- Under the parent Treatment record, click the DETAIL_QUESTION record. Mark the Overflow Multiplier to 1 and the Overflow field to Section.
- Repeat for the DETAIL_ANSWER field that also appears on the Medbody1 section.
- Save your XDD and check it back into the library.

Step B:Set up section trigger for overflow

- Check the Medical History form out of the library in the Form manager.
- Click the Medbody1 section on the page pane. This is our overflow section that contains the Treatment records that are our overflow fields:

Sections	<mark>Р</mark> Р	operties	L	P Fp	,
MEDICAL HISTORY USING	1	OAL Trigger Options		Ι.	Page 1
🔁 🗶 🛧 🐺	ł	🖹 🗲 🌒 🔞		<u></u>	TrainingCompany
🔊 Page		Timera		4	Medical history is required for TrainingCon mandatory for all ages, in every state for all
🗐 Header		Trigger		0:	diagnosies, dates, physipana, and other ma above. This information will be stored for a
MEDHEAD 1		Name	MEDBODY	4	CURATION.
MEDHEAD2		Description		8	
Body		Task Comments		Ŏ	
MEDBODY1	-	Advanced		7	
🗲 MEDBODY		Transaction codes		0:	
E Footer		Occurrence Flag	1	9:	
MEDFOOT1		Records on different first section		0:	
		Records per overflow section	1	19:	
	-	Recipients		2:	
		AGENT	Use section count	0:	
		HOMEOFFICE	Use section count	4	
		INSURED	Use section count	4.0	

- Select the MEDBODY trigger that was set up on this section, or if it has not been added, do so now. Please see *Setting Up Form Triggers* on page 183 or *Setting Up Section Triggers* on page 233.
 - Under the Advanced properties, the Occurrence Flag and the Records Per Overflow Section should be set to 1.
- Check Meadhead2 and Medfoot1 as well to ensure that they are marked as Copy on Overflow.
- Save and check the form back into the library.

Sections 4	Properties	-	L Fø	
MEDICAL HISTORY USING	DAL Trigger Options		- I	Page 1
🕀 🗶 🏠 🐺	🖶 🗲 🤁 🔘		1	TrainingCom
Page	➡ Trigger		2 4 0	Medical history is required for Te mandatoy for all ages in every si diagnoses, dates, physicians, and above. This information will be si
MEDHEAD1	Name	MEDBODY	4	SUR STICK
MEDHEAD2	Description		8-	
E Body	Task Comments		١ <u>ĕ</u>	
WEDBODY1	✓ Advanced		3	
F MEDBODY	Transaction codes		0:	
E Footer	Occurrence Flag	1	9	
MEDFOOT1	Records on different first section		6-	
	Records per overflow section	1	1 1	
	 Recipients 		2:	
	AGENT	Use section count	Ŭ.	
	HOMEOFFICE	Use section count	4	I I
	INSURED	Use section count	4-	
			6.8	

Step C:Run Test or print to see overflow

We could test our overflow scenario in the Test manager. We would see that the 2 headers, Medhead1 and Medhead2, will appear to overprint each other in Tests. This is because the use of the Print Controls happens when you run the GenPrint program. (Please see *Documaker Server logical system flow* on page 19 for a reminder of the different Server processes.)

The above overflow configuration would render the Medical History form like this:

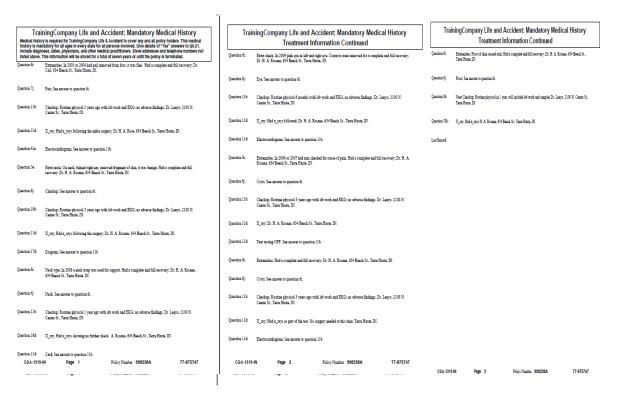


Figure 6: Pages 1-3 of the Medical History form with Section Overflow, Overflow Multiplier = 1. Note the use of the different header on pages 2 and 3.

Example 2: Configure section overflow for Medical History form, overflow multiplier = 5

What if we wanted to print only five Treatment records per page for the Medical History form?

Step A:In the Section manager design a new Body section with 5 fields. These are our Question and Answer fields.

- First, use one of the methods of creating a *custom page* for a Section called Medbody2. See *Example* on page 462).
- Next, insert fields onto the section. We will map our data on the fields on the section field entries because we are going to use a Record count. (The Record field is not available in the Extract Dictionary). Please see *Inserting a Field* on page 408.
- We will add 10 fields, one each for 5 Question nodes and one each for 5 Details nodes, named QUESTION1, DETAILS1, QUESTION2, DETAILS2, and so on:

d Options		Page 1
📕 🖣 🕨 🖫 🍇 🤇	\$ @	OUESTION1 D
General		
Name	QUESTION3	
Prompt		2.
Font ID	11010 Times-Roman 10 PT (PCL AFP XER PS 0th)	4
Туре	Alphanumeric	0 OUESTION2 D
Length	14	
Format		
Task Comments		4
Coordinates		
Attributes		0 OUESTION3
Documerge		
Rule		
Rule	MOVE_IT	
Destination Offset	0	0. OUESTION4 D
Source Name		
Source Offset	0	-
File	0	
Length	14	9. 6
Record	3	OUESTION5 D
Required	Not	
Overflow Multiplier	5	-
Overflow	Section	1-
Mask		
Data	//TRAININGCOMPANY/DATA/TREATMENT(****)/DETAIL_QUESTION	D D

Just as we did with Medbody1, we will put the DETAILS fields in a text area for shrink and grow capabilities.

Step B:Add data mapping on the section fields

- Add data mapping on each field on the section.
- Each field could use the Move_It rule in the Rule field to move data over with no formatting needed.
- Question fields have a length of 14, Details fields are a max length of 200.
- The Data field will have the mapping. Remember the [****]/is used in overflow data mapping with XML:

Data	/TRAININGCOMPANY/DATA/TREATMENT[****]/DETAIL_QUESTION
•	Each field must be mapped to the correct Record count. So Question1 and Details1 fields will have the Record set to 1. Question2 and Details2 would have the Record set to 2, and so on. This tells the overflow function to count the nodes in the data and assign the occurrence number accordingly.

Step C:Enter the overflow settings on the fields:

• How many records per overflow occurrence? We want 5 records per section. So our Overflow field needs to be set to Section, and our Overflow Multiplier needs to be set to 5, on *each field* on the Medbody2 section.

	eld Options			Pa	ige 1	
6) 🗶 🖣 🕨 🞚 🕼 🌲 🌒	1		ou	ESTION1	D
Ŷ	General	-			20110111	
1	Name	QUESTION3				
	Prompt		2			
	Font ID	11010 Times-Roman 10 PT (PCL AFP XER PS 0th)	4-			
	Туре	Alphanumeric	ŏ	OU	ESTION2	D
	Length	14				
	Format					
	Task Comments		4.			
۶	Coordinates		ő -		TATIONIA	
Þ	Attributes		0.		ESTION3	_
Þ	Documerge		<u> </u> -			
÷	Rule					
	Rule	MOVE_IT	7.			
	Destination Offset	0	0 0	OU	ESTION4	D
	Source Name		ll":		20110111	
	Source Offset	0	-			
	File	0				
	Length	14	9. 6			
	Record	3	0 <u>.</u>	OU	ESTION5	D
	Required	Not				
	Overflow Multiplier	5	11:			
	Overflow	Section	1			
	Mask		2.			
	Data	//TRAININGCOMPANY/DATA/TREATMENT[*****]/DETAIL_QUESTION	0			

Step D:Set up Form and Section triggers

We will set up this example using manual triggers.

• First, open the Medical History form in the Form Lists manager. Add a manual trigger, and enter the Treatment xPath to the Search mask (True/False) field:

!/TRAININGCOMPANY/DATA/TREATMENT

(See Assigning Form Level Triggers on page 184).

- We can leave the Recipient entries empty, because if this trigger is True we will want our Sections evaluated to complete our Overflow.
- In the Form manager, open the Medical History form. For Medhead1, Medhead2 and Medfoot1 mark the Recipients to 1 Copy.
 - On Medhead1, click Can Grow.
 - On Medhead2, click Copy on Overflow and Not First (under Print Controls).
 - On Medfoot1, click Copy on Overflow.
- On Medbody2, click Can Grow, and mark the Recipients as Eligible, because they are eligible to receive a copy if the trigger is true.
- On Medbody2, add a {Manual Trigger}. (See *Setting Up Section Triggers* on page 233). In the **Search mask (Counter)** field, enter the Xpath to the Treatment record:

!/TRAININGCOMPANY/DATA/TREATMENT

• For Overflow, set the Occurrence flag on (to 1).

- For Overflow, set the Records per Overflow Section to 5.
- On Recipient copy count on the trigger, check all recipients.
- Save and check the form and sections back into the library.

Step E:Test or print form

We could test our overflow scenario in the Test manager. We would see that the two headers, Medhead1 and Medhead2, will appear to overprint each other in Tests. This is because the use of the print controls happens when you run the GenPrint program. (Please see *Documaker Server logical system flow* on page 19 for a reminder of the different Server processes.)

The above overflow configuration would render the Medical History form like this:

Train Medical history history is mand	TrainingCompany Life and Accident: Mandatory Medical History Bedat Intry in register to "Intracourse (Li & Acade to our any set al poor y todan, The nodar Intrado diagnose, and any privaten, and other media prototenes. The solution intrado diagnose numbers not intrado diagnose, the strong to a bat store for a bat diagnose may any other to the solution interaction. The information will be store for a bat diagnose part of spoor in the instantial Overantia.		Trainin	ngCompany Life and Acci Treatment Infor	dent: Mandatory Medical mation Continued	History	TrainingCompany Life and Accident: Mandatory Medical History Treatment Information Continued				
listed above. Th			Question Se:	Extra mole; On neck, behind right ear, re recovery; Dr. H. A. Rosane, 634 Beech S	moved fragment of skin, it was benign. Had a t., Terre Hante, Di.	a complete and full	Question di:	Neck type; In 2008 a neck wrap was u: Rosane, 634 Beech St., Terre Haute, D	eed for support. Had a complete and full recove I.	ny; Dr. H. A.	
(Dr. Call, 634 Basch St., Tarre Hmin, Dl.		Question Si:	Checkup; See mover to question 6i.			Question 41:	Neck: See answer to question 6.			
Question 77:	Fair: See answer to question 6.		Question 5j:	Checkup; bee answer to question to.			Question 41:	Neck; See answer to question to.			
			Question 198:	Chackup: Routine physical 2 years ago v Center St., Terre Haute, Di.	ith lab work and EKG; no adverse findings; I	Dr. Lenyo, 2100 N.	Question 11b:	Chackup; Routine physical 1 year ago Center St., Terre Hauta, Di.	with lab work and EKG; no adverse findings; I	lr. Lanyo, 2100 N.	
Question 11b:	Chackup; Routine physical 3 years ago with lab work and EKG; no adverse findings; Dr. Leayo, 2100 N. Canne St., Terre Hune, Di.										
			Question 11d:	X_ray; Had x_rays following the surgery	Dr. H. A. Rosane, 634 Beech St., Terre Haut	m, D.	Question 16d:	X_ray; Had x_rays showing no further	check. A. Roume, 634 Beech St., Terre Hante,	DI.	
Question 21d:	$\rm X_{2}my;$ Had s_mays following the mile surgery; Dr. H. A. Rose, 634 Beech St., Terre Hunte, Dl.										
			Question 17d:	Diogram; See answer to question 11b.			Question 11d:	Card; See answer to question 11b.			
Question 41z:	Electrocardiogram, See answer to question 11b.										
			CGA-131	19-IN Page 2	Policy Number 998238A	77-875747	CGA-1315	-IN Page 3	Policy Number 558238A	77-875747	
CGA-13	19-IN Page 1 Policy Number 598238A 77-875747										

Figure 7: Pages 1-3 of Medical History form with Section overflow, Overflow Multiplier = 5. Note the header changes for overflow pages 2-7.

	TrainingCompany Life and Accident: Mandatory Medical History Treatment Information Continued		TrainingCompany Life and Accident: Mandatory Medical History Treatment Information Continued			TrainingCompany Life and Accident: Mandatory Medical History Treatment Information Continued			TrainingCompany Life and Accident: Mandatory Medical History Treatment Information Continued				
stim fi:	Eren check, in 2009 pink sys in left and right sys. Contexts was removed for a complete and full recovery; Dr. H. A. Roman, 604 Baseds St., Tema Hann, DY.	Question 6:	Extremities; In 2006 or 2007 has H. A. Rosane, 634 Beech St., Te	f arm checked for cause of pain. Had a complete and : no Hante, Di.	full recovery, Dr. Question fil	Expe	mittes; Had a complete and full re	covery, Dr. H. A. Rosane, 634 Beech St., Terr	Hauta, IN.	Question 6:	Extremities; Front of skin crused St., Terre Hunte, DI.	nih. Had a complete and full recovery; Dr. H. A	Rouse, 634 Beech
ctina 6j:	$\Sigma_{\rm J} u_{\rm c}$ Soe moreover to quantum 6.	Question 6j:	Cysts; See answer to question fit		Question 6:	Cyve	; See azorer to question fil.			Question 6:	Prost, See azorer to question 6.		
etima 170e	Clackup, Rouine physical 6 mentis with lab work and EEG, no adverse findings, Dr. Lanys, 2000 N. Camer So, Taen Konna, N.	Question 117:	Checkup: Routine physical 3 yes Center St., Terre Hante, DI.	er ago with lab work and EKG; no adverse findings;	Dr. Lazyo, 2100 N. Question 17h:	Chec Cean	kup: Routine physical 3 years ago ar St., Terre Hanne, Di.	with lab work and EXG; as adverse findings;	Dr. Lanys, 2100 N.	Question Dr.	Next Checkup: Routine physical St., Terre Haute, DI.	a 1 year, will include 14b work and samples Dr. 3	Lanyo, 2000 N. Cauto
etien 11d:	X_pry: Hol x_pry: followed; Dr. H. A. Rouse, 614 Seech St., Tern Hinne, DI.	Question 11d.	X_ray; Dr. H. A. Rossa, 634 B	sech St., Tarre Hauta, DI.	Question 11d	X,a	y, Had a jurys as part of the sect. I	io surgery needed at this time. Terro Hoste, D		Question 10k:	X_ray: Had s_rays H. A. Rouana,	694 Baach St., Tama Houne, DI.	
Querin 114 Electronologua, Securve to querin 17. Querin 114		ntion 11.6 Text seting OFF. See answer to question 11h.		Question 11d.	Queries 114 Electrocatiogram, San answer to queries 11b.			Les faceri					
					ce	L-1319-IN	Page 6	PolicyNumber 308238A	77-875747	CGA-131	5-IN Page 7	Poicy Number 200228A	77-8

Figure 8: Pages 4-7 of Medical History form with Section overflow, Overflow Multiplier = 5. Note header changes for overflow pages 2-7.

Example 3: Medical History form Overflow

• We can build the Medical History overflow following Example 2, except we would change our Overflow field value to Form, instead of Section:

Rule	MOVE_IT	
Destination Offset	0	OUESTION3
Source Name		
Source Offset	0	
File	0	7-
Length	14	OUESTION4
Record	5	
Required	Not	-
Overflow Multiplier	5	
Overflow	Form	9
Mask		
Data	!/TRAININGCOMPANY/DATA/TREATMENT[*****]/DETAIL,	

• We would also set our Occurrence and Records per overflow section parameters on the form trigger (in the Forms List manager) instead of the section trigger:

Forms P	Pro	Properties					
TRAININGCOMPANY_ACCIDENT_0000	D	DAL Trigger Options					
🗉 💥 👚 🦊		1 🗲 🤨 🞯					
TRAININGCOMPANY_ACCIDENT MEDICAL HISTORY USING MEDBODY	F	✓ Trigger					
		Name	TREATMENT				
		Description					
	-	Advanced					
		Transaction codes					
		Occurrence Flag	1				
		Records on different first section					
		Records per overflow section	5				
	-	Recipients					
		AGENT	Use section count				
		HOMEOFFICE	Use section count				

Our results would look like this in our Documaker Studio Test Scenarios:

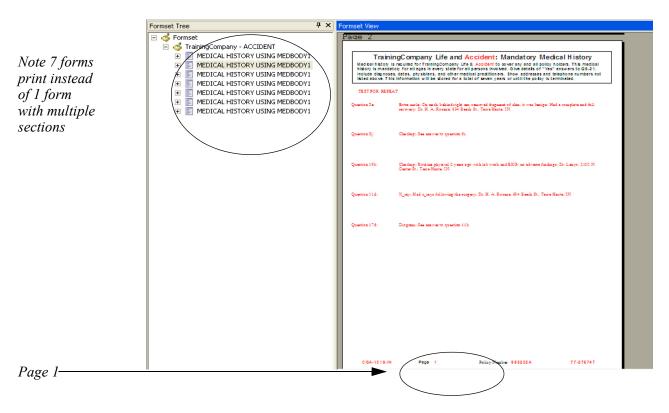


Figure 9: Example 3: Form Overflow of Medical History, records 1-5, Overflow = Form

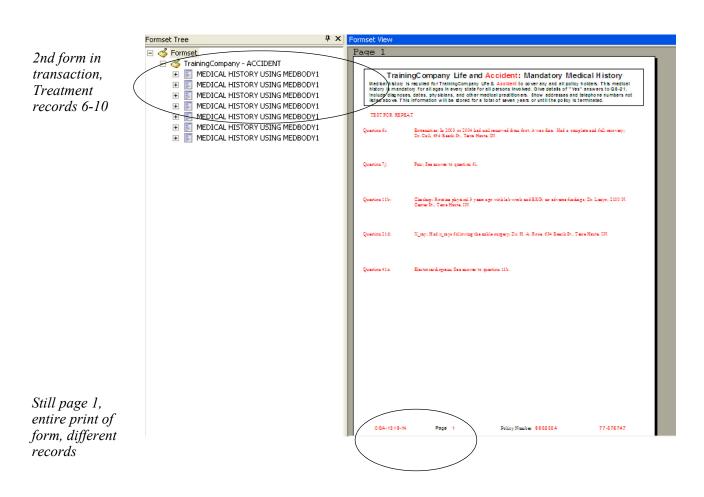


Figure 10: Example 3: Form Overflow of Medical History, records 6-10, Overflow = Form

Note Any examples in this guide usually demonstrate one possible configuration for a given process. In Documaker there are different ways to achieve the same results, and legacy methods are supported in current versions of Documaker Studio. If your implementation is set up differently than shown in documentation, but is working, do not alter your current configuration.

Appendix D

Sample XML used in Examples

Below find the XML transaction record used for purposes of the examples in this guide.

Extract File - 77-875747

```
<?xml version="1.0" encoding="UTF-8"?>
<TRAININGCOMPANY>
  <HEADER>
    <KEY1>TRAINCO</KEY1>
    <KEY2>LA</KEY2>
    <KEYID>77-875747</KEYID>
    <RUNDATE>20201231</RUNDATE>
    <BUSINESSTYPE>03</BUSINESSTYPE>
   <PRODUCT>Foundation Medical</PRODUCT>
   </HEADER>
  <DATA>
    <policynumber>998238A</policynumber>
    <FORM>CGA-1319-IN</FORM>
    <IND3>A</IND3>
    <INSURED>
      <INSUREDFNAME>Cablevision</INSUREDFNAME>
      <INSUREDADDRESS1>2120 Peachtree Industrial</INSUREDADDRESS1>
      <INSUREDCITY>Atlanta</INSUREDCITY>
      <INSUREDSTATE>GA</INSUREDSTATE>
      <INSUREDZIP>30348</INSUREDZIP>
    </INSURED>
    <AGENT>
      <AGENTPREFIX>Mr.</AGENTPREFIX>
      <AGENTFNAME>John</AGENTFNAME>
      <AGENTLNAME>Doe</AGENTLNAME>
      <AGENTADDRESS1>100 Main Street</AGENTADDRESS1>
      <AGENTCITY>Dallas</AGENTCITY>
      <agentstate>tx</agentstate>
      <AGENTZIP>76206</AGENTZIP>
      <AGENTEMAIL>jdoe@trainco.com</AGENTEMAIL>
      <agentphone>2148582200</agentphone>
      <agentnumber>n12345</agentnumber>
      <CUSTSERVPHONE>8882637436</CUSTSERVPHONE>
      <CUSTSERVOPENTIME>8:00</CUSTSERVOPENTIME>
      <CUSTSERVCLOSETIME>5:00</CUSTSERVCLOSETIME>
      <CUSTSERVTIMEZONE>eastern</CUSTSERVTIMEZONE>
    </AGENT>
 <TREATMENT>
      <RECORD>TREATMENT</RECORD>
   <DETAIL QUESTION>Question 6i:/DETAIL QUESTION>
```

<DETAIL ANSWER>Extremities; In 2003 or 2004 had nail removed from foot, it was fine. Had a complete and full recovery; Dr. Call, 634 Beech St., Terre Haute, IN.</DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 7j:</detail QUESTION> <DETAIL ANSWER>Fair; See answer to question 6i.</DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 11b:/DETAIL QUESTION> <DETAIL ANSWER>Checkup; Routine physical 3 years ago with lab work and EKG; no adverse findings; Dr. Lenyo, 2100 N. Center St., Terre Haute, IN.</DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 21d:</DETAIL QUESTION> <DETAIL ANSWER>X ray; Had x rays following the ankle surgery; Dr. H. A. Rose, 634 Beech St., Terre Haute, IN.</DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 41z:/DETAIL QUESTION> <DETAIL ANSWER>Electrocardiogram; See answer to question 11b. DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 5e:/DETAIL QUESTION> <DETAIL ANSWER>Extra mole; On neck, behind right ear, removed fragment of skin, it was benign. Had a complete and full recovery; Dr. H. A. Rosane, 634 Beech St., Terre Haute, IN.</DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 8j:/DETAIL QUESTION> <DETAIL ANSWER>Checkup; See answer to question 6i.</DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 19b:/DETAIL QUESTION> <DETAIL ANSWER>Checkup; Routine physical 2 years ago with lab work and EKG; no adverse findings; Dr. Lenyo, 2100 N. Center St., Terre Haute, IN.</DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 11d:</DETAIL QUESTION> <DETAIL ANSWER>X ray; Had x rays following the surgery; Dr. H. A. Rosane, 634 Beech St., Terre Haute, IN.</DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 17d:/DETAIL QUESTION> <DETAIL ANSWER>Diogram; See answer to question 11b. DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 6i:/DETAIL QUESTION>

<DETAIL ANSWER>Neck type; In 2008 a neck wrap was used for support. Had a complete and full recovery; Dr. H. A. Rosane, 634 Beech St., Terre Haute, IN.</DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 4j:/DETAIL QUESTION> <DETAIL ANSWER>Neck; See answer to question 6i.</DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 11b: <DETAIL ANSWER>Checkup; Routine physical 1 year ago with lab work and EKG; no adverse findings; Dr. Lenyo, 2100 N. Center St., Terre Haute, IN.</DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 16d:</DETAIL QUESTION> <DETAIL ANSWER>X ray; Had x rays showing no further check. A. Rosane, 634 Beech St., Terre Haute, IN.</DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 11d:/DETAIL QUESTION> <DETAIL ANSWER>Card; See answer to question 11b./DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 6i:/DETAIL QUESTION> <DETAIL ANSWER>Extra check; In 2009 pink eye in left and right eye. Contacts were removed for a complete and full recovery; Dr. H. A. Rosane, 634 Beech St., Terre Haute, IN.</DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 6j:/DETAIL QUESTION> <DETAIL ANSWER>Eye; See answer to question 6i.</DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 11b:/DETAIL QUESTION> <DETAIL ANSWER>Checkup; Routine physical 6 months with lab work and EKG; no adverse findings; Dr. Lenyo, 2100 N. Center St., Terre Haute, IN.</DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL_QUESTION>Question 11d:</DETAIL_QUESTION> <DETAIL_ANSWER>X_ray; Had x_rays followed; Dr. H. A. Rosane, 634 Beech St., Terre Haute, IN.</DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 11d:/DETAIL QUESTION> <DETAIL ANSWER>Electrocardiogram; See answer to question 11b. DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 6i:/DETAIL QUESTION> <DETAIL ANSWER>Extremities; In 2006 or 2007 had arm checked for cause of pain. Had a complete and full recovery; Dr. H. A. Rosane, 634 Beech St., Terre Haute, IN.</DETAIL ANSWER>

</TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 6j:/DETAIL QUESTION> <DETAIL ANSWER>Cysts; See answer to question 6i.</DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 11b:/DETAIL QUESTION> <DETAIL_ANSWER>Checkup; Routine physical 3 years ago with lab work and EKG; no adverse findings; Dr. Lenyo, 2100 N. Center St., Terre Haute, IN.</DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 11d:/DETAIL QUESTION> <DETAIL ANSWER>X ray; Dr. H. A. Rosane, 634 Beech St., Terre Haute, IN.</DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 11d:/DETAIL QUESTION> <DETAIL ANSWER>Text testing OFF; See answer to question 11b. DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 6i:/DETAIL QUESTION> <DETAIL ANSWER>Extremities; Had a complete and full recovery; Dr. H. A. Rosane, 634 Beech St., Terre Haute, IN.</DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 6j:/DETAIL QUESTION> <DETAIL_ANSWER>Cysts; See answer to question 6i.</DETAIL_ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 11b: <DETAIL ANSWER>Checkup; Routine physical 3 years ago with lab work and EKG; no adverse findings; Dr. Lenyo, 2100 N. Center St., Terre Haute, IN.</DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 11d:</DETAIL QUESTION> <DETAIL ANSWER>X ray; Had x rays as part of the test. No surgery needed at this time. Terre Haute, IN.</DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 11d:</DETAIL QUESTION> <DETAIL ANSWER>Electrocardiogram; See answer to question 11b. DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 6i:/DETAIL QUESTION> <DETAIL ANSWER>Extremities; Frost of skin caused rash. Had a complete and full recovery; Dr. H. A. Rosane, 634 Beech St., Terre Haute, IN.</DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD>

<DETAIL_QUESTION>Question 6j:</DETAIL_QUESTION> <DETAIL ANSWER>Frost; See answer to question 6i.</DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Question 8b:/DETAIL QUESTION> <DETAIL_ANSWER>Next Checkup; Routine physical in 1 year, will include lab work and samples Dr. Lenyo, 2100 N. Center St., Terre Haute, IN.</DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL_QUESTION>Question 50k:/DETAIL_QUESTION> <DETAIL_ANSWER>X_ray; Had x_rays H. A. Rosane, 634 Beech St., Terre Haute, IN. </ DETAIL ANSWER> </TREATMENT> <TREATMENT> <RECORD>TREATMENT</RECORD> <DETAIL QUESTION>Last Record</DETAIL QUESTION> <DETAIL ANSWER></DETAIL ANSWER> </TREATMENT> </DATA>

</TRAININGCOMPANY>

Appendix E

Using Subforms

Studio lets you include forms within forms. The embedded forms are called *subforms*. Using subforms eliminates the need to use the SetRecipFromImage rule which simplifies triggering and populating data on sections when you are processing repeating patterns of hierarchical or nested data.

Subforms are not intended to be inserted pages, but rather inserted sections. Normal pagination takes place after the sections have been inserted.

Subforms are stored as version 11.x FOR resource files. Subforms are supported in version 11.3 or higher runtime configured to run with Documaker Studio model resources. To use or process subforms, the AFGJOB.JDT file must include the RunTriggers rule. The RunTriggers rule replaces the RunSetRcpTbl and LoadRcpTbl rules. If your AFGJOB.JDT file includes the RunSetRcpTbl and LoadRcpTbl rules, you must modify it before you can use subforms.

Subforms have begin and end sections and trigger the same as any other group. The difference is that once the subform is triggered, the section triggers within the specified form are executed, once for each time the subform is triggered.

After triggering sections within the subform, all of the sections will be moved onto the page where the subform is declared. Subsequent pagination determines the final layout of the form. Therefore, you should not expect the pages explicitly defined in the subform to be represented in the same fashion within the resulting form where included.

When processing non-XML input files with subforms triggered by a counter search mask, the triggered sections are processed against a subset of the extract file. The subset is based on the search mask and the occurrence of the triggered subform.

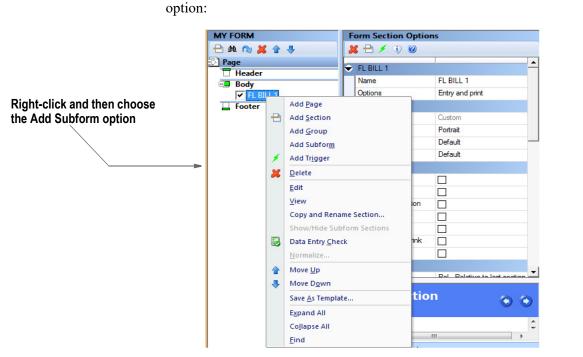
Any form in the library may be referenced as a subform. When a form is included as a subform, all of the triggered sections (from all pages) are inserted into the resulting form at the point where the subform is designated. Therefore the final paginated layout will not have the layout designated in the original form used a subform.

Note Using subforms eliminates the need to use the SetRecipFromImage rule which simplifies triggering and populating data on sections when you are processing repeating patterns of hierarchical or nested data.

This appendix covers these topics:

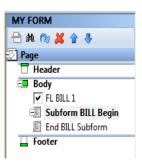
- Adding a Subform on page 899
- Accessing Data on page 900

ADDING A SUBFORM



The Open File window appears. Select a form on this window or click New to create a subform.

To add a subform when working with forms, right-click and select the Add Subform



ACCESSING DATA

With flat file extract data

If a subform is triggered using a counter type search mask, the subsequent section's trigger and data mappings are run against a subset of the file. For example, with the following extract file:

Header 123456768 Level 1 : 1 Level 2 : 1:1 Level 3 : 1:1:1 Level 3 : 1:1:2 Level 3 : 1:1:3 Level 3 : 1:1:4 Level 3 : 1:1:5 Level 2 : 1:2 Level 3 : 1:2:1 Level 3 : 1:2:2 Level 1 : 2 Level 2 : 2:1 Level 3 : 2:1:1 Level 3 : 2:1:2 Level 3 : 2:1:3 Level 2 : 2:2 Level 3 : 2:2:1 Level 3 : 2:2:2 Level 3 : 2:2:3 Level 3 : 2:2:4 Level 2 : 2:3 Level 3 : 2:3:1 Level 3 : 2:3:2

Assume you have a subform level 1 triggered by a search mask of *1,Level* and form level 1 and a subform level 2. The extract file for all of the sections triggered under the first occurrence of subform level 1 would appear as follows:

Level	1	:	1
Level	2	:	1:1
Level	3	:	1:1:1
Level	3	:	1:1:2
Level	3	:	1:1:3
Level	3	:	1:1:4
Level	3	:	1:1:5
Level	2	:	1:2
Level	3	:	1:2:1
Level	3	:	1:2:2

For the sections triggered under the first occurrence of level 2, the extract would appear as:

Level	2	:	1:1
Level	3	:	1:1:1
Level	3	:	1:1:2
Level	3	:	1:1:3
Level	3	:	1:1:4
Level	3	:	1:1:5

If you assume the subform level 2 triggers a section (level 3) for each occurrence of the search mask *1,Level 3*, the first occurrence of subform level 2 triggers five level 3 sections. If you mapped a field in the level three section as shown here:

Source Name		
Source Offset	11	
File	0	
Length	5	
Record	1	
Required	Not	
Overflow Multiplier	1	
Overflow	Image	
Mask		

The file data returned for each section would be as shown here:

1:1:1 1:1:2 1:1:3 1:1:4 1:1:5

The search mask *1,Level 3* specifies the data record (value of *Level 3* at an offset of one). Source offset specifies the offset to use within the selected data record and the length specifies the length of the data to return.

The overflow symbol specifies the occurrence of the data record. In this case, select Section, which tells Studio to give you the section occurrence number of this section within the form or, in this case the subform, if the section was triggered as part of a subform.

With XML extract data

Given the following extract file:

```
<SubForm>
<br/><begin>04-08-2006</begin> <end>04-14-2006</end>
     <SubForm 1>
        <Item>1</Item>
            <SubForm_2>
                <Item>1</Item>
                     <SubForm 3>
                         <Item>1</Item>
                         <Item>2</Item>
                         <Item>3</Item>
                         <Item>4</Item>
                         <Item>5</Item>
                     </SubForm 3>
            </SubForm 2>
            <SubForm 2>
                <Item>2</Item>
                    <SubForm 3>
                        <Item>1</Item>
                         <Item>2</Item>
                         <Item>3</Item>
                     </SubForm 3>
           </SubForm 2>
    </SubForm 1>
    <SubForm 1>
        <Item>2</Item>
```

```
<SubForm 2>
                <Item>1</Item>
                    <SubForm_3>
                        <Item>1</Item>
                    </SubForm 3>
            </SubForm 2>
            <SubForm 2>
               <Item>2</Item>
                    <SubForm_3>
                        <Item>1</Item>
                        <Item>2</Item>
                    </SubForm 3>
            </SubForm 2>
            <SubForm 2>
                <Item>3</Item>
                    <SubForm 3>
                        <Item>1</Item>
                        <Item>2</Item>
                        <Item>3</Item>
                    </SubForm 3>
            </SubForm_2>
     </SubForm 1>
</SubForm>
```

Triggering subforms and subform sections using XML data differs from using flat file extract data in that Studio does not create a subform version of the extract file. Instead, the triggering and data retrieval is handled through xPaths and the replacement symbol **@SUBFORM[N] ** where N is the subform level.

For example, if you triggered a subform for elements SubForm_1, SubForm_2, and SubForm_3, you would use...

Use	To get the
"**@SUBFORM[1]**" or "**@SUBFORM**"	Current form (SubForm_3) occurrence
"**@SUBFORM[2]**"	Parent form's (SubForm_2) occurrence
"**@SUBFORM[3]**"	Grandparent's (SubForm_1) occurrence

For example, in Forms Manager, you may have

ections	• Participante a construction de la construcción	
SAMPLEFORM_0000100003_19800101	Page 1	
B M 10 2 9 5	FELD1 CELON	
Page	PELD2 PELD2	1
T Header		
Body		
E Subform SUBFORM1 Begin	8	
Subform1_trig		
SUBFORMLITEM		
✗ Subform1_Item_trig	S	
Subform SUBFORM2 Begin		
Subform2_trig		
SUBFORM2_ITEM		
Subform2_Item_trig		
Subform SUBFORM3 Begin		
Subform3_trig	8	
SUBFORMS_ITEM		
🖌 Subform3_item_trig		
End SUBFORM3 Subform	8	
End SUBFORM2 Subform		
End SUBFORMI Subform		
L Foster		

Data for Field3 in the SubForm3 section you may have:

1//SubForm	_1[**@SUBFORM[3]* DRM[1]**]/Item	**]/SubForm_2[**@SUBFORM[2]**]/SubForm_3	^ ОК
			Cance
Word Wr	ap	Spell Check Options Symbol	-
Word Wr			
Word Wr	Required	Not	
Word Wr	Required Overflow multiplier	Not r 0	_
Word Wr	Required Overflow multiplier Overflow	Not	-
Word Wr	Required Overflow multiplier Overflow Mask	Not 0 Default	-
Word Wr	Required Overflow multiplier Overflow	Not r 0	RM2TVS

Appendix F

Inserting State Stamps and Signatures

Documaker software lets you automatically insert state stamps and signature sections via Documaker Studio and Documaker Workstation.

In the insurance industry, there is a requirement to apply a state "stamp" on certain forms. The stamp typically declares the document is valid in the state that has jurisdiction over the policy. Each state has its own stamp.

And, depending upon which agency issued the policy, different signatures may be required to make the policy valid within that insurance organization or state of issuance.

CONFIGURING YOUR SYSTEM

To handle the automatic insertion of a state stamp or a signature, create sections (FAP files) that contain the state stamp or signature or other information you want inserted and then add the following option in your INI file:

```
< AFEProcedures >
    AutoInsert = LSSW32->LSSAutoInserts
```

Note You must make sure the dimensions of the FAP file that contain the information you want to insert fit appropriately within the target section.

In the target section — such as a DEC page — define a field that indicates where you want the system to place the inserted section. This field must have one of these *root* names:

LSS_LOGO LSS_STAMP LSS_SIGNATURE

Note A *root* name means that the field name must start with these letters. The actual field name might be something like:

```
LSS_LOGO_LOGONAME
LSS_STAMP_TEXAS
LSS_SIGNATURE_JOHNDOE
```

Like page numbering fields, the system only requires that the field name starts with the required root name to determine it will be used. The remainder of the name is for your identification purposes.

HOW IT WORKS IN DOCUMAKER DESKTOP

The system makes no assumptions on what the sections contain. When it locates a field with one of the pre-defined root names, it builds a corresponding FAP name from WIP index values defined for this document, as shown in this table:

This field	Builds a FAP name comprised of this information
LSS_STAMP	LSS_STAMP_{JURISDICTN}
LSS_LOGO	LSS_LOGO_{LOCID}_{%KEY1}_{%JURISDICTN}_{%SUBLOCID}
LSS_SIGNATURE	LSS_SIGNATURE_{KEY1}_{%LOCID}_{%JURISDICTN}_{%SUBLOCID}

In each of the definitions, the curly brace enclosures ({}) identify the WIP column that will substitute into the name. Column names preceded by a percent sign (%) indicate the column is optional.

If a WIP column is required and the data in that column is missing or spaces, the system removes the spaces. In this case, the character preceding the insertion point is examined and if found to be a space, period, hyphen, or underscore, it is also removed from the name. You cannot, therefore, assume that just because a column is required empty data will not be accepted.

For instance, suppose the definition is LSS_STAMP_{JURISDICTN}. The column JURISDICTN is not declared as optional, therefore data from the matching WIP column is inserted into the resulting name. If that column is blank, the resulting name generated will be LSS_STAMP because the preceding underscore character will be removed when the data is blank.

When there are optional columns, the system first tries the entire line, then removes one optional column at a time starting from the right-hand side. It will continue to try the name until all optional columns are removed. Here is an example:

LOCID = ABC SUBLOCID = XYZ JURISDICTN = GA KEY1 = ANYSTATE

For LSS_STAMP, the only name the system would generate is:

LSS_STAMP_GA

If there was no FAP file with that name, nothing would be inserted.

For LSS_LOGO, the system would try the following names in sequence and select the first match:

LSS_LOGO_ABC_ANYSTATE_GA_XYZ LSS_LOGO_ABC_ANYSTATE_GA LSS_LOGO_ABC_ANYSTATE

If there was no FAP file with that name, nothing would be inserted.

For LSS_SIGNATURE, the system would try the following names in sequence and select the first match:

LSS_SIGNATURE_ANYSTATE_ABC_GA_XYZ LSS_SIGNATURE_ANYSTATE_ABC_GA LSS_SIGNATURE_ANYSTATE_ABC If there was no FAP file with that name, nothing would be inserted.

Note The system removes spaces, periods, underscores, or hyphens that precede an optional item.

You can override the way the system substitutes for the these fields using these INI options:

```
< LSS_INSERTS >
    LSS_STAMP = LSS_STAMP_{JURISDICTN}.FAP
    LSS_LOGO =
LSS_LOGO_{LOCID}_{%KEY1}_{%JURISDICTN}_{%SUBLOCID}.FAP
    LSS_SIGNATURE =
LSS_SIGNATURE_{KEY1}_{%LOCID}_{%JURISDICTN}_{%SUBLOCID}.FAP
```

You can include any valid WIP index column name within curly braces and you can include as many fields as necessary.

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The following terms include definitions of system files as well as commonly-used terms.

AFP Advanced Function Printing (AFP), developed by IBM, is a print server language that generates data streams of objects. The data streams merge with print controls and system commands to generate Intelligent Printer Data Stream (IPDS). Your system then sends the IPDS to the AFP printer for printing. The GenPrint program can create spool files for AFP printers.

Application definition file Application definition files defines the key combinations used to locate a specific form set. These key combinations are comprised of a Key1 and Key2 (sometimes referred to as Unit1 and Unit2; or Group1 and Group2). In the insurance world, these keys are typically called: company and line of business (LOB). Other information stored in the BDF file includes the following:

- List of recipients
- Form categories (if used)
- Transaction type information
- Primary extract dictionary (XDD) file (if used)
- Default font cross-reference (FXR) file
- Default style (STY) file

Application definition files have an extension of *BDF*.

- Class Indicates the class of the resource. Forms, sections, paragraph lists, paragraphs and graphics are all library resources which can optionally have classes assigned to them. Classes are defined via INI options in Studio and are optional. Class can be used to group resources by product lines or geographical regions such as GA, TX, or MD.
 - DAL Document Automation Language (DAL) is the language you use when you tell the system how to calculate fields. This calculation is also called a script. When you select calculation options for a field, you can choose from:
 - DAL Calc. Recalculates the value of all fields each time a user tabs to a new field in the section.
 - DAL Script. Recalculates the value of the fields to which you assign the script only when a user tabs out of that field

Note You can find detailed information about the DAL language in the DAL Reference.

.DAT files Data table (DAT) files define various information the system uses as it processes information. All DAT are text files which have the extension *DAT*. Some DAT files are comma-delimited text files.

The NAFILE.DAT file contains the variable data generated by the GenData program. This file, along with the POLFILE.DAT file, tell the GenPrint program what to print. This file also tells the GenWIP and GenArc programs what to place into WIP and what to archive.

The GenWIP program also creates DAT files for each incomplete transaction it must process. These files are numbered sequentially and for each file there is a corresponding POL file which contains information about the forms to use.

- .DBF files Database files (DBF) are used in several places in the Documaker system. For each DBF file, there is a corresponding MDX file which serves as its index. Examples of DBF files are FDB.DBF, which is created by Studio's Common Fields manager and WIP.DBF, which is created by the GenWIP program.
- .DFD files Data field definition (DFD) files define to the system the file formats of the files generated by the system.An example of a DFD file is the TRNDFDFL file which the GenTrn program creates. The GenData program uses this file to read the TRNFILE which contains the actual transactions GenTrn creates.
 - Duplex A form printed on both the front and back sides of a sheet of paper is printed in duplex mode.

See also Simplex on page 925.

- Effective date The date on which you want the resource (forms, sections, paragraph lists, paragraphs and graphics are all resources) to become available for processing or selection in Documaker Server or Documaker Desktop. The effective date is also used in Studio's Library manager to aid in the versioning and revisioning of a resource.
 - Embedded All of the attributes of an embedded item are included in the file in which the item is embedded vs. a reference to that item to an external file. For example, when a graphic is embedded in a section, all of the attributes of that graphic are written or included in the section file. The graphic is neither shared nor loaded from the library.
 - Extract files Extract files are typically text files which contain the data the system processes. Extract files are created by another program, typically a database program, in a format the system can read. The text file format provides a standard interface into the system. For example, your data may be stored in a DB/2 or VSAM database from which you extract the data you want to process in the system in text format.

You can customize the system to read almost any type of file layout. The GenTrn program first reads the extract file and, using that extract data and TRNDFDFL.DFD file, creates transaction files (TRN files) the GenData program can use as it applies the processing rules and creates batch files, the NAFILE.DAT, and the POLFILE.DAT file.

The system includes a base extract file, called EXTRFILE.DAT, which serves as an example of the type of file the base system can read. You can use this file to experiment with the base system and determine how you want to set up your system.

- .FAP files The information which defines each section is stored in a FAP file. FAP files are text files with the extension *FAP*. You can edit FAP files using Studio.
- FDB.DBF file The FDB.DBF file is the default name of the database file created by the Common Fields manager which contains a record for each unique field you create. You can use any name you prefer as long as the extension is *DBF*. You can add records (fields) using the Common Fields manager or as you create sections in Studio.
 - Fields A field is a blank space in your section or paragraph into which data is entered. The variable data can be entered manually during entry (Documaker Desktop) or merged during runtime (Documaker Server). Fields have attributes assigned to them including type, font, length, and so on.
 - Form lists Form lists define a list of the forms that apply to each business unit and to maintain form-level triggering information. You can also define the order in which these forms should be provided.

Information about each group of forms is stored in a file with a *GRP* extension. For each group (Key1/Key2), you have a separate GRP file. Group name (Key1/Key2) information is stored in the application definition (BDF) file, whereas specific information for each of the forms that make up the group is stored in a GRP file.

Forms A form is a single document containing one or more pages or sections. Most forms contain multiple pages that are usually printed on both sides of a single sheet (duplex). Some forms are printed only on one side (simplex). Typical forms include insurance policies, tax returns, and mortgage documents.

Forms include two types of data: fixed and variable.

- Fixed data is the same on every copy of the form. This includes items such as graphics, headers, and titles. This information remains constant regardless of the data entry.
- Variable data may differ from form to form. This includes items such as individuals' names, addresses, and policy numbers. This information relates to the specific data processed on each form.

Form files have an extension of FOR.

Form sets A form set is a group of logically related forms required to process a single transaction. A form set may contain one or many forms. You can group forms any way you want as you create form sets.

- FSISYS.INI file The FSISYS.INI file is a one of the initialization (INI) files used by the system to set system parameters and to enable or disable system features.
- FSIUSER.INI file The FSIUSER.INI file is one of the initialization (INI) files used by the system to set system parameters. For example, the FSIUSER.INI file contains information specific to each user, such as the location of files.
 - .FXR files Font cross-reference (FXR) files are used by the system so you can make sure your documents print the same way, regardless of which printer you choose. These files contain information about the various fonts you use and their equivalents on various printers.
 - Graphics A picture or image. Graphics can include a company logo, a signature, pictures, photos, and so on. Graphic files are typically stored in the workspace's library and have a file extension of *LOG*.
 - .INI files Initialization (INI) files are used by the system to set system parameters and to enable or disable system features. Some examples of system INI files are: FSISYS.INI and FSIUSER.INI. For example, the FSISYS.INI file contains information the GenTrn program uses to determine when a new record starts and other information about the extract files the GenTrn program processes. The FSIUSER.INI file contains information specific to each user, such as the location of files and so on.
 - Libraries Studio lets you maintain multiple versions of various resources in a library. Libraries let you set up your master resource libraries and their associated files and resources, and then use those resources when you need them.

Libraries can record descriptions when files are updated to a new version and provide file-lock capability to ensure that multiple users do not modify the same files. Libraries control resources much in the same way a traditional book library operates.

You check out files to use them and check in files when you are done. You can also create versions that are for future use and date stamp them so they become active or are activated on the effective date. This lets you create a resource such as a form before it goes into effect. Libraries work with your master resource libraries to manage versions.

Within any given resource library, you can have multiple versions of the same resource. The system identifies form versions by the effective date. The effective date is the date used in the processing environment (Documaker Desktop and/or Documaker Server to determine which version of a resource to use.

.LOG files Logos and other graphics, such as scanned signatures, are stored as LOG files in the system. You use the Graphics manager to manage and manipulate LOG files.

Master resource library The master resource library provides a central repository into which you can place all reusable resources such as sections, fonts, graphic files, data definitions, processing rules, and processing procedures.

- Metacode A printer definition language developed by Xerox. Metacode is the native language of Xerox's Centralized Printing Systems. The GenPrint program can create spool files for Metacode printers.
- Metadata Metadata is data that provides information about or documentation of other data that is managed in an application or environment. The purpose and use of these values is left to the user. A catalogue might be considered metadata because it describes books, clothes, and so on.
 - Objects Objects are the individual items which comprise your image. Examples of objects are boxes, bar codes, lines, graphics, and text. All objects have unique attributes within the image. Attributes include items such as position, size, font type, and color.
 - Pages Pages are the printed result of a section or a group of sections. You can have one section per page, several sections per page, or even a section that spans several pages. You determine the size of a page based on the size of your printed output. You can design forms for any size page your printer can print.
- Paper stock Paper stock allows users who have more than nine types of paper stocks to specify what paper stock the form should print on. Paper stock is used for Metacode printers only. In Studio, paper stock is defined at the form level. Data entered on a Documaker documents paper stock field is put onto a forms task comments when the Documaker document is converted.
- Paragraph lists Studio lets you create a list of paragraphs which lists all of the paragraphs from which either a Documaker Desktop user or Documaker Server can select at processing time. You insert this paragraph list into a multiline text field on a section. paragraph lists are stored in *PSL* files.
 - Paragraphs Studio lets you create canned paragraphs of text that can be inserted into a form. The system then uses the selected paragraph to fill a multiline text field. The way paragraphs are selected differs between Documaker Desktop and Documaker Server. With Documaker Desktop, a user selects which paragraph to use. With Documaker Server, trigger processing makes that determination. Paragraphs are stored in *PAR* files.
 - PCL (Printer Control Language) is a printer definition language developed by the Hewlett-Packard company. The GenPrint program can create spool files for PCL printers.
 - PostScript is a printer definition language developed by Adobe Systems which you can use on various printers. The GenPrint program can create spool files for PostScript printers.
 - Projects Indicates the project code assigned to a resource. Forms, sections, paragraph lists, paragraphs and graphics are all examples of library resources which can optionally have project codes assigned to them. Project codes are defined via INI options in Studio and are optional.

- Recipients A recipient is any person, company, or other entity who receives a copy or copies of a form set, or any part of a form set such as a single form, or image. Examples of recipients are insurance policy owners (insured), agents, lien holders, and mortgage companies. Recipients are stored in the Application Definition file (BDF) of the workspace.
 - Sections A section is a group of text or graphics or both that make up a part of a form. You create sections using Studio. Each section is stored in a separate file (FAP file), so you can reuse sections in several forms and form sets. Multiple sections can comprise a single form. For instance, a three-page form with text and graphics, printed on both sides of each page, could contain a total of six sections. Some examples of sections include an insurance policy declaration page, the return portion of a bill, and page one of a 1040 Federal tax return form.

You can choose to create a single page containing multiple sections, especially if you develop a page with graphics.

- SETRCPTB.DAT file This file, also known as the *form set trigger table*, contains information which tells the GenData program which recipients receive which forms or sections. This file also contains the information the GenData program needs to determine whether or not to include or exclude a form.
 - Simplex A form printed on only one side of a sheet of paper is printed in simplex mode. See also *Duplex* on page 921.
 - Style Use styles to define default characteristics of objects such as font attributes, background color, and so on.

In general, all of the objects you can use in a section have a series of properties that define the behavior and appearance of the object. With styles, you can pre-configure theses options and store them for later use. This can both save time and allow a convenient way to enforce a particular look and feel across many different sections and forms.

Each style sheet contains one of each type of section object. Select an object property as being included in the style by checking the box next to the property. Thereafter, any object of the given type will inherit this property setting when the style is selected for that object.

You can also base one style on another. If you base style B on style A, then all of style B's objects will inherit the included (checked) properties of the corresponding object in style A. You can then override this behavior for any property in style B by checking the box next to the property and setting it to your desired value. This is useful when creating a series of styles that are mostly identical but vary from each other in small ways.

- Triggers define the criteria that must exist for content to be included in the form set. Triggers may be assigned to include or exclude:
 - An entire form
 - Sections within a form
 - Text areas within a section
 - Optional paragraphs in a paragraph list

Triggers are typically stored in the workspace's library and have an extension of *DAL*.

- Variable data Variable data may differ from form to form. This includes items such as individuals' names, addresses, and policy numbers. This information relates to the specific data processed on each form.
- Workspace A workspace, sometimes referred to as an MRL (master resource library) which contains all of the resources (such as forms, sections, paragraphs) and definition files (such as INI files) needed to compose and maintain the resources and files used in products such as Documaker Desktop or Documaker. Documaker Desktop and Documaker provide functionality to create policies (Insurance), letters and forms (Correspondence), and so on. A workspace is created using Studio.
- Workspace definition files A workspace definition file contains information specific to a workspace and is a snapshot of several types of resources in a workspace at the time the file is generated. This file contains information about the following:
 - Common fields
 - DAL triggers
 - Recipients
 - Fonts
 - Project lists
 - Class lists
 - Graphics
 - Metadata

The Documaker Add-In for Word uses the information in this file to present its users with choices when they are creating Documaker documents in Word. Workspace definition files have an extension of *WDF*.

xBase A generic term for industry-standard dBase IV file format.