

Oracle® Documaker

Unicode Reference Guide

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Why does text appear jumbled or change to question marks a	
change the font ID?	

Preface

Oracle Documaker is a powerful, adaptive enterprise document automation platform used worldwide to acquire, create, manage, and present structured, on-demand, and interactive customer communications. It is designed to put power in the hands of business users, giving them the flexibility to create interactive, dynamic documents on demand.

Spanning the entire business lifecycle, Oracle Documaker helps you manage customer communications enterprisewide—including document production, correspondence, and cross-selling campaigns—across all locations and lines of business. The industry-leading platform offers a cost-effective way to address the design, production, and multichannel distribution of a broad spectrum of customer-facing documents. With robust functionality and cutting-edge technical capabilities, it maximizes efficiencies, ensures compliance, and enhances customer service.

Oracle Documaker is based on open standards and integrates easily into today's service-oriented architecture environments. It integrates with any type of system across the enterprise. It can even be integrated with your self-service Web portal so stakeholders can get immediate access to up-to-date information. Oracle Documaker provides the agility and flexibility you need to roll out new products quickly and remain competitive.

Oracle offers proven tools and migration methods, along with experienced, highly trained technical personnel to ease conversions while maintaining the intelligence of your data. Leveraging Oracle Documaker as a single system can dramatically reduce costs. One insurance customer recouped the full cost of an Oracle Documaker implementation within nine months.

Business users can easily author content in Oracle Documaker Studio using Microsoft Word through a plug-in that leverages the power of Documaker Studio in the background. For even more capability, Oracle Documaker's intuitive, easy-touse design tool, Documaker Studio, empowers business users to create powerful, persuasive content minimizing their reliance on IT, so you can produce dynamic, *intelligent* transactional documents that transmit data and content.

AUDIENCE

Unicode provides a way to enter content in any major language, by assigning a unique number to each character. This document provides an overview of how Documaker uses Unicode. It will be useful to those who want to understand how to use Unicode with your Documaker systems.

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Contact

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RELATED DOCUMENTS

For more information, refer to the following Oracle resources:

- Documaker Installation Guide •
- Documaker Administration Guide
- Documaker Studio User Guide •
- **Printers Reference**
- Fonts Reference •
- Documaker Desktop Installation Guide ٠
- Documaker Desktop Administration Guide •
- Documaker Web Enabled Solutions Guide

CONVENTIONS

The following text conventions are used in this document:

Convention Description	
------------------------	--

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

Chapter 1

Using Unicode

This document discusses how to use Unicode with Documaker and includes information on these topics:

- Overview on page 8
- Enabling Languages on page 11
- Setting Up Unicode Fonts on page 16
- Creating Forms on page 27
- Using Documaker Server on page 31
- Printing Unicode Data on page 35
- Writing Custom Rules With UTF-8 Encoded XML on page 38
- Frequently Asked Questions on page 39

OVERVIEW

What is Unicode?

Basically, computers understand only numbers. Through various encoding systems (code pages), computers can associate numbers with characters for the purposes of display, printing, and processing text. Originally, encoding systems mapped values in a single byte (values between 0 and 255). Such a system (known as a Single Byte Character Set or SBCS) can only address up to 256 characters. The European Union alone requires several different encodings to cover all its languages.

Far eastern languages (Japanese, Chinese, and so on) contain 1000s of characters – too many for a SBCS. As a result, encoding systems using a mixture of one and two byte values were developed. These encoding systems are known as Double Byte Character Sets (DBCS) but would more accurately be called Multibyte Character Sets (MBCS).

In all, there are literally hundreds of encoding systems. It is not surprising that these encoding systems conflict with one another. That is, the character that should be associated with a number (computers only understand numbers) changes depending on the encoding system.

Unicode was developed to provide a single encoding for all of the world's major languages. Unicode provides a unique number for every character. Industry leaders such as IBM, Microsoft, HP, Sun, Oracle, SAP, Sybase and many others have adopted the Unicode Standard. See the Unicode web site for more information on the Unicode Standard:

www.unicode.org

Related standards

XML (eXtensible Markup Language) is a markup language for interchange of structured data. The Unicode Standard is the reference character set for XML content.

UTF-8 (Unicode Transformation Format, 8-bit encoding form) is a format for writing Unicode data in text files (which are normally processed sequentially, one byte at a time). Unicode values (code points) are written as a sequence of one to four bytes. When writing Unicode data into Documaker text files (FAP files, and so on), the Unicode data will be written in UTF-8 format.

Implementing Unicode

Documaker version 10.2 implemented the first phase of Unicode support. This phase targets the ability to compose, print, and present documents for these Far Eastern languages: Chinese, Japanese, Korean, and Vietnamese and let you...

- Use the Unicode 3.0 character set (two-byte Unicode values)
- Compose FAP files containing Unicode text
- Run the Documaker batch process to assemble documents from FAP files and data that contain Unicode text (on a limited set of platforms)
- Print documents with Unicode (using a limited set of printers)

• Archive, retrieve, and view the documents, including thick-clients on Windows, and also PDF over the Internet

There are some limitations:

- All user interfaces, help, error messages, and documentation for tools and runtimes would still be single-byte ANSI characters, primarily in English.
- The target user is an English-speaking developer that needs to be able to create documents for languages other than English.
- Names of objects (field names, section names, and so on) will still be single-byte ANSI characters, primarily in English. This means you should not convert Unicode text to a field in Documaker Studio.
- Limited formatting or word-wrapping or other syntax (for example justification) related functions for Unicode text in both editing text and mapping data into multiline text fields.
- No support for vertical writing style used in Japanese newspapers, magazines.
- No support for bi-directional languages (Arabic, Hebrew, and so on) for releases prior to 12.2 and higher. Note, this feature is not backward compatible, so if you generate resources containing text in these languages, they cannot be edited or used by development or runtime systems in a prior Documaker system.
- No support for Unicode data entry in Documaker Desktop.
- Methods supported for input of Unicode data in Documaker Studio data entry check/wip edit plug-in:
 - copy/paste
 - keyboard entry
- A Windows system is needed in order to develop and maintain Unicode forms.
- Production runtime platforms that support Unicode will be Windows and Unix platforms supported by Documaker.
- Printer support for Unicode forms will be through GDI (Windows print drivers), PCL (via PCL6 driver), PDF (via TrueType font support). Unicode support is not available for Metacode print driver.

Documaker version 12.2 and higher includes support for Complex Text Layout (CTL) languages such as Arabic, Hebrew, Thai, Devanagari, and Tamil. A Complex Text Layout (CTL) language is any language which stores text differently from how it is displayed.

Many CTL languages such as Arabic and Hebrew, use bidirectional script. Words and sentences are written from right to left. Some text, such as numbers and Romanbased words, are written from left to right.

Some CTL languages are context dependent. In Arabic, characters can be modified depending on the preceding and following characters. Written Thai uses character clusters, a collection of syllabic elements denoting consonants, vowels, and tonal values.

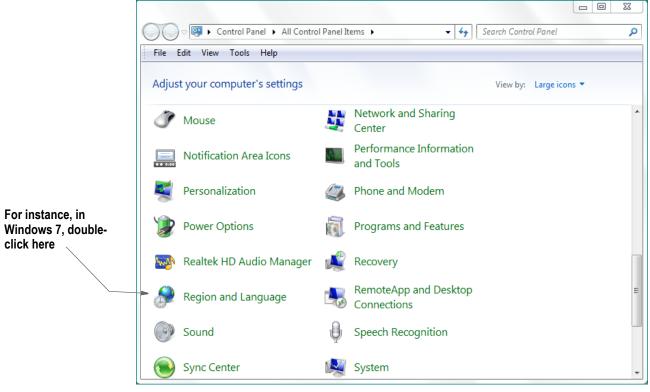
CTL languages require complex transformations to properly display or print characters. The fundamental characteristics of CTL languages are:

- Bidirectional text--Arabic and Hebrew are written right to left, but numbers and Roman-based characters are written left to right.
- Contextual analysis--each Arabic character has up to four display representations. The representation glyph depends on its position in the text.
- Ligatures--combinations of two or more Arabic characters can form a different, single character.
- Diacritics--diacritical marks placed above, below, or inside vowels and consonants modify their tonal value.
- Character clusters--syllables and cells, especially in Thai, are composed of several alphabetic elements, including vowels, consonants, diacritics, and tone marks.
- Number and date formats--some Arabic countries use Hindi digits rather than Arabic digits, and the Islamic calendar rather than the Western calendar.
- **Note** There are no rules or Document Automation Language (DAL) functions in Documaker to specifically support additional number and date formats for Hindi digits or the Islamic calendar.

ENABLING LANGUAGES

The Documaker Studio and Docucreate tools require Windows to develop Unicode forms. To type characters in the languages you will be using on forms, you may need to enable these languages in Windows.

To enable additional languages in Windows, open the Windows Control Panel and double-click on the Region and Language icon (the name and the icon of the option may vary depending on the version of Windows you are using).



The remaining steps differ slightly, depending on which version of Windows you use.

Choosing Languages in Windows 7

In Windows 7, the Regional and Language Options window appears as shown below. Click the Keyboards and Languages tab. Click on the Install/uninstall languages button to install additional languages.

🕈 Region and Language 🗾 📧
Formats Location Keyboards and Languages Administrative
Keyboards and other input languages To change your keyboard or input language click Change keyboards.
Change keyboards
How do I change the keyboard layout for the Welcome screen?
Display language
Install or uninstall languages that Windows can use to display text and where supported recognize speech and handwriting.
👘 🛜 Install/uninstall languages 🚽
How can Linstall additional languages?
OK Cancel Apply

In Windows 7, you can download languages in two ways:

- Using Windows Update. If you're running an Ultimate or Enterprise edition of Windows, you can download available language packs by using Windows Update. Language packs installed using Windows Update provide a fully translated version of Windows dialog boxes, menu items, and help content.
- You can download Language Interface Packs (LIPs) from the Microsoft Download Center. To install a LIP, you will need to have the required parent language installed on your PC.

After installing additional languages, return to the Regional and Language Options window, click on the Keyboards and Languages tab and then click the Change keyboards button to view or change the languages and methods you can use to enter text.

👷 Text Services and Input Languages	×
General Language Bar Advanced Key Settings	
Default input language Select one of the installed input languages to use as t fields.	he default for all input
English (United States) - US	
Installed services Select the services that you want for each input langu Use the Add and Remove buttons to modify this list.	age shown in the list.
EN English (United States) Keyboard US	
	A <u>d</u> d
	Remove
	Properties
	Move <u>U</u> p
	Move D <u>o</u> wn
ОК Са	ancel Apply

Click Add to add additional languages you want to input. Then select the input language and the keyboard layout/IME (input method editor) you want to use.

Select the language to add using the checkboxes below.	ОК
Select the language to add using the checkboxes below.	OK Cancel Preview

SELECTING THE INPUT LANGUAGE

Once you have selected the input languages you want to use, you should test the new input languages in a simple environment such as Microsoft Word. On the task bar, you should see a small icon with the letters, EN (assuming your original language for Windows was English), or you may see an icon for a typewriter. If you click on the EN or typewriter icon, you will see a list of the input languages now available in Windows.



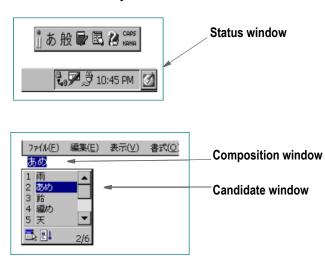
You can change input languages by clicking on the input language icon and using the mouse to select the new input language from the list provided. Alternatively, you can change the current input language by pressing and holding the Alt key and then pressing and releasing the Shift key until the desired input language is selected.

Once you have selected a new input language, you should be able to enter characters in the new input language. With some input languages, you can just use the keyboard as you normally would for English. For example, suppose you had installed and selected Russian as the current input language. If you typed the letters *ABC* on an English style keyboard, you would see these characters:



Some input languages (like Japanese and Chinese) use an input method editor (IME) to type characters. The basic operation of an IME is as follows.

The IME user interface (UI) consists of a Status window, a default Composition window, a Candidate window, and a Guideline window. The appearance varies based on the IME you use.



As you type, characters are built into a composition string. The string appears in the default Composition window. The way you indicate the appropriate characters to use differs, depending on the IME. You can configure how the IME works by right clicking on the EN or typewriter button and selecting Settings.

Text Services and Input Languages
Settings
Default input language Select one of the installed input languages to use when you start your computer.
English (United States) - US 🛛 👻
Installed services Select the services that you want for each input language shown in the list. Use the Add and Remove buttons to modify this list. Image: Chinese (PRC) Image: Chinese (PRC) Image: Chinese (PRC) Image: Chinese (Simplified) • Microsoft Pinyle Image: Chinese
Preferences Language Bar Key Settings
OK Cancel Apply

Highlight the IME you want to configure and click Properties. The Properties window varies based on the IME you use.

Microsoft Pinyin IME Properties	?
General Double pinyin schemes	
Input mode Full pinyin Double pinyin Modeless input Incomplete input Fuzzy input Customize fuzzy mapping	 User function ✓ Enable learning Delete learning file ✓ Enable user-defined phrase Delete user-defined phrase
Conversion mode	Candidate option
Sentence	Sow style ○ List style
Word	Prompt step by step
	OK Cancel

SETTING UP UNICODE FONTS

Most TrueType fonts contain Unicode encoding information. The other types of encoding formats for TrueType fonts are Symbol (used for fonts with graphic symbols), ShiftJIS (Japanese Industrial Standard), Big5 (used in Taiwan and Hong Kong and associated with traditional characters), PRC (used in Singapore and mainland China and associated with simplified characters), Wansung (Korean), and Johab (Korean). Claims of Unicode conformance in a font can be misleading when there is no common understanding about the number of languages supported.

Documaker supports TrueType fonts with Unicode encoding information. One way to determine the Unicode encoding information and languages supported for a TrueType font is to use Microsoft's Font Properties Extension utility. To find this utility, use the Search option at this web site to search for the Font Properties Extension utility:

www.microsoft.com

Once installed, you can right click on a TrueType font to get a properties window such as the following:

thorht j.ttf P	roperties			2 🛛
Links (Version	Description Hinting/Font	License Smoothing	Security Names	Summary Features
General	Emb	edding	CharSet.	/Unicode
Fon: Encodir Unicode (ISC Supported U Basic Latin Latn 1 Supp Latn Extensi Spacing Mor Supported C 1252 Latin 1250 Latin 1253 Greel 1254 Turkis 1255 Hebre	ng Type) 10646-2) Inicode Range: Delement ded-A ded-B ons difier Letters iode Pages 1 2: East Europe c c c sh	5 5	Inicode, Inc.	
		DK	Cancel	Apply

LICENSING FONTS

Documaker includes Unicode TrueType fonts in Albany and Andale Duospace fonts. These fonts can be accessed from the Oracle Software Delivery Cloud. See Documaker Installation Guide for more details on how to locate the correct installation. To incorporate the Unicode fonts, choose the right font set and associated font cross reference file (FXR) that will support the output you need to product. Documaker offers Unicode fonts in Albany and Andale Duospace fonts for Japanese, Simplified Chinese, Traditional Chinese, and Korean languages.

Typeface	Language	File name
Albany WT J	Japanese	ALBANWTJ.TTF
Albany WT K	Korean	ALBANWTK.TTF
Albany WT S	Simplified Chinese	ALBANWTS.TTF
Albany WT T	Traditional Chinese	ALBANWTT.TTF
Andale Duospace WT J	Japanese	ADUOJ.TTF
Andale Duospace WT J Bold	Japanese	ADUOJB.TTF
Andale Duospace WT K	Korean	ADUOK.TTF
Andale Duospace WT K Bold	Korean	ADUOKB.TTF
Andale Duospace WT S	Simplified Chinese	ADUOSC.TTF
Andale Duospace WT S Bold	Simplified Chinese	ADUOSCB.TTF
Andale Duospace WT T	Traditional Chinese	ADUOTC.TTF
Andale Duospace WT T Bold	Traditional Chinese	ADUOTCB.TTF

The reason for different TrueType fonts that target the Japanese, Simplified Chinese, Traditional Chinese, and Korean languages is that the same character is represented using different shaped glyphs. For example,

Simplified Chinese	Traditional Chinese	Japanese	Korean
与	与	与	与
今	今	今	今
全	全	全	全
才	才	才	才

Typically, using the rel121j.fxr and the Japanese font set would support most languages. However, since the shapes of the characters used for certain languages are unique you may need to use one of the other provided fonts/font cross reference files. Once you have selected the desired font set, add these to the Documaker Studio workspace by following these steps:

Changing the FXR in an Existing Workspace

These steps need to be performed by a user with System Administrator rights to the workspace or a user who has permission to access Business Application Definition Manager.

Prerequisites:

- Assumes you have installed Documaker Studio and Documaker JAPAC fonts.
- Assumes you have an existing Documaker Studio workspace.
- 1. Copy rel121j.fxr from location where you installed the JAPAC fonts to the \deflibdirectory of your Documaker Studio workspace.
- 2. Start Documaker Studio.
- 3. Click on the button in the upper left corner to display the File menu.
- 4. Select Open Workspace.
- 5. Browse to the location of your workspace.
- 6. Double click on the XXX. DXM file in the root directory of the workspace (where XXX represents the workspace name)
- 7. Workspace is opened and the workspace name is displayed in the title bar and the output area.
- 8. Check the Business Application Definition file out of the library.
- 9. Double click on the Definition icon in the Application tab, the Open file dialog displays

🕾 Open file								
Editor Pilter Preview			_				1 of L	ΩK
	Name	Туре	Ver	Rev	Effective Date	Locked		Convel
	DALSECTIONFUNCTION	EDF	00001	00002	1/1/1900		M55	⊆ancel
								Drowse Open as gead-only
								Мени

- 10. The BDF file should be selected\highlighted.
- 11. Click OK.
- 12. The BDF file is checked out of the library.

13. Application Options panel is as below.

JALSECTIONFUNCTION v1.3 1/1/1980						
Application Definition 7						Recipients
DALSECTIONFUNCTION	A	pplication Options				🚱 Client
S X ≙ ↓	2	• °b ‰ ③ Ø				Office
DALSECTIONFUNCTION_0000: DALSectionFunction	÷	Application Options				
Business		EXR file name	ſ	el121		
		Primary Extract Dictionary (XDD)	\$	Symbol		1 1
		Style file name				
		Color				1 1
		Entry		default		
		Fields		default		
		Spot Color			0	

- 14. Click on the field to right of the label FXR file name.
- 15. Click on the icon that displays in that field

-	Application Options						
÷	Application Options						
	FXR file name rel121 at						
	Primary Extract Dictionary (XDD) Symbol						
	Style file name						
۲	Color						
	Entry default						
	Fields	default					

- 16. The Open dialog displays. Browse to the \deflib directory for this workspace and select the rel121j.fxr, click Open.
- 17. The FXR file name show should now show rel121j.fxr.

A	Application Options						
٩	▶ □ <i>X</i> ④ Ø						
÷	Application Options						
	FXR file name	rel121j.fxr	al				
	Primary Extract Dictionary (XDD)	Symbol					
	Style file name						

18. Click on the Documaker icon in the upper left corner to display the File menu.

19. Select Check In, the Check In dialog displays

🌮 Check In	\mathbf{X}
Name:	DALSECTIONFUNCTION
Description:	changed the fxr file name
Version:	00001 Increment version
Revision:	00003
Effective date:	1/ 1/1980
Mode:	_
Status:	
Class:	•
Project:	-
	OK Cancel

20. Click OK. The BDF is checked back into the library.

Creating a new Workspace (without import) using Rel121j.fxr

Prerequisites:

- Assumes you have installed Documaker Studio and Documaker JAPAC fonts.
- 1. Open Documaker Studio.
- 2. Click on the Documaker Studio icon in the upper left corner to display the File menu, select New Workspace.

	H .	
	New Workspace	
	Join Workspace	
	Import Workspace F	iles
	Open <u>W</u> orkspace	
	Close Wor <u>k</u> space	
2)	<u>N</u> ew	Ctrl+N

3. Enter a name for your new workspace, change the location as desired and click Next.

Workspace	×
Please enter a name and location for this new workspace.	
Name: MyWorkspace 🗖 Allow Other Users to Join	
Location: c:\fap\mstrress	
Workspace c:\fap\mstrress\MyWorkspace Path:	
C Join Existing Workspace	
Enter the path to the workspace you wish to join.	
Location:	

4. Select Create a new workspace without import; the FXR file defaults to rel121.fxr located in the FMRES\deflib directory. FMRES is automatically installed when you install Documaker Studio and should not be deleted since it contains resources used by Documaker Studio.

Workspace Creation Options	×
Choose the Type of Workspace Creation © <u>C</u> reate a new workspace without import © Import <u>r</u> esources from an existing location	
Enable Project Management EXR File: D:\fap\122\mstrres\fmres\deflib\rel121.fxr	

-	C:\mss\12	1ja	apac_fullfo	nt	:				
Nam	e Ext	£.	Size		Date	Time		Attr	
t			DIF	8	4/1/2013	6:10:59 F	РΜ		
. 🍋	install4j		DIF	R	4/1/2013	6:11:04 F	РΜ		
🔰 jr	e		DIF	8	4/1/2013	6:10:40 F	РΜ		
🗑 u	ininstall.exe		156,464	4	3/28/2013	5:21:44 F	РΜ	А	
🖬 r	el121j.fxr		9,902,517	7	11/17/2011	10:49:40 /	٨M	А	
🖬 r	el121k.fxr		9,916,791	1	11/17/2011	10:51:16 /	١M	А	
🖬 r	el121sc.fxr		9,903,808	3	11/17/2011	10:52:52 /	λM	А	
🖬 r	el121tc.fxr		9,903,598	3	11/17/2011	10:53:22 /	٨M	А	
A a	aduoj.ttf		15,329,644	4	9/22/2006	6:55:18 /	λM	А	
A a	aduojb.ttf		6,877,380	D	9/22/2006	6:54:08 4	٨M	А	
A a	aduok.ttf		15,749,036	6	9/22/2006	6:57:02 A	٨M	А	
A a	aduokb.ttf		7,115,252	2	9/22/2006	6:55:50 /	١M	А	
A a	duosc.ttf		15,431,988	3	9/22/2006	6:57:14 /	١M	А	
A a	aduoscb.ttf		6,891,320	0	9/22/2006	6:56:20 A	١M	А	
A a	duotc.ttf		15,599,032	2	9/22/2006	6:57:38 /	١M	А	
A a	aduoteb.ttf		7,017,972	2	9/22/2006	6:56:38 /	٨M	А	
A a	albanwtj.ttf		26,283,116	6	10/29/2008	10:00:00 F	РΜ	А	
A a	albanwtk.ttf		26,611,852	2	10/29/2008	10:00:00 F	РМ	А	
A a	albanwts.ttf		25,949,224	4	10/29/2008	10:00:00 F	РΜ	А	
A a	albanwtt.ttf		26,128,384	4	10/29/2008	10:00:00 P	РМ	А	

5. Click on the ellipses in the FXR file option; the Open dialog displays; browse to where JAPAC fonts were installed.

6. Select rel121j.fxr.

Alternatively, you can license TrueType fonts from other vendors, as well as using the fonts supplied with the system. You can license fonts that support a only few languages or you can license fonts that support the entire Unicode 3.0 character set.

There are several legal issues to be aware of before converting fonts from other vendors. Font vendors generally copyright the fonts they create. You can legally convert fonts only if the font vendor grants permission.

The converted font is bound by the same copyright restrictions that apply to the original font. For example, if your license does not permit you to use the font on more than one computer at a time, then you are not permitted to use the converted font on more than one computer at a time. In addition, it may be a copyright violation to copy converted fonts to other platforms running on the same computer.

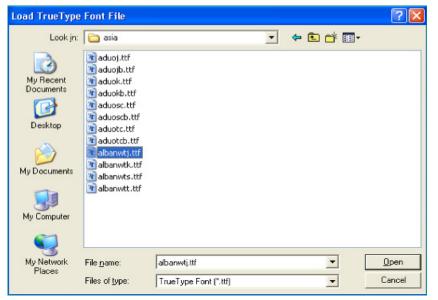
Generally, if you plan to use a TrueType font on more than one machine or plan on permanently installing the font on a printer, your license expressly must give you the right to do so.

If you want to add selected Unicode fonts to your current font set, then you can add Unicode-enabled fonts to a font cross-reference file via Font Manager. In this example, we will use the Studio Font Manager to create a new FXR file that will contain Unicode-enabled fonts. Note that you need access rights to Font Manager in order to create or modify an FXR. Right click on the Font Manager and select the New option to create a font cross-reference file. The Import Fonts wizard will begin as shown below. Select TrueType font as the Font Type to import and then click the Next button.

↑ 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.	э.
1 0	
Select Font Type	
Font Type TrueType font]
Importing Fonts 💿 🕥	
Use Import to quickly add font information to your font set files. Import lets you add multiple font information or individual font information to the font set or FXR file. If necessary, you can edit font information to change the font ID, typeface, family, and printer specific information.	
To import fonts, click on Import under Fonts menu or right mouse click on 🔍	-
Import TrueType fonts into the FXR.	
< Back Next > Cancel Help	

Click on the Select Files button to select the TrueType font(s) to import.

🕆 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 or left mouse click 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						
Status TrueType Font File						
< Back Finish Cancel Help						



To enable Unicode support for this TrueType font, you must click the Unicode Character Widths field on the Import window. After you have added all of the point sizes you want to use for this TrueType font, click Finish.

* Import Fonts - Select F	Font Files		X			
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 or left mouse click 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 F	iles					
Select Files I files listed StatusTrueType Font File albanwtj.ttf Properties Code Page: 1004,W1 Family: Albany WT J Font Style: Upright Stroke wt: Medium (0) Spacing: Fixed Proportional Proportional Unicode character widths: *Inserts a set of standard point sizes						
Backward	Forward					
	< <u>B</u> ack	Finish Can	cel Help			

After the system has inserted the point sizes you specified for this TrueType font into the font cross-reference, you will see the main font list window again. Click on the disk icon or select Save from the main menu to save your font cross-reference file.

🚗 🖶 •	Fonts		HelloWorldTLJ - Docur	naker Studio	- [Untitled3*]
Save (Ctrl+5)	font	Help			
Duplicate Serve the active docum Delete SElect All Import Find Font Deselect All Export * Fonts					
al Untitled3* al Untitle3* al Untitle3* al Untitle3* al Untitle3* al Untitle3*	a	Properties		7	Font Sample
00002 Albany WT J 8 P	T PT PT	Font Properties - 00	007 Albany WT J 24 PT		
00004 Albany WT J 12 00005 Albany WT J 14 00006 Albany WT J 16 00007 Albany WT J 24	PT	Font ID Description	00007 Albany W/T J 24 PT		
3 00007 Mbany W1 3 24	r1	 Screen Properties 		25	
1 Nariston		Family	Albany WT J		
gale		Typeface	Albany WT J		
-		Point Size	24		
3		Font Style	Upright		
a		Stroke Weight	Medium (0)		

After you have saved your FXR, you'd want to define it in the Application Definition file (*.BDF) in the workspace.

Installing Fonts in Windows

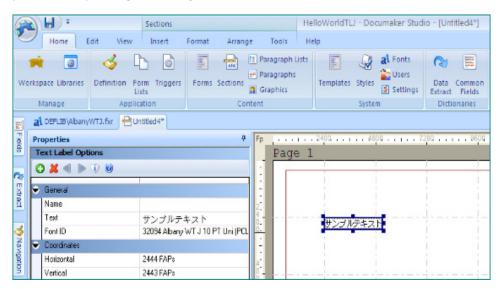
You must install the TrueType font into Windows before you can begin using the TrueType font to design forms. You can install fonts into Windows using the Fonts folder (located in the Control Panel). After opening the Fonts folder, select the File, Install New Font option. The Add Fonts window appears and asks for the drive and directory in which the new TrueType font files are located. When you finish selecting the fonts you want to install, click Ok to install them.

CREATING FORMS

ADDING UNICODE TEXT

After you have created a font cross-reference file that contains Unicode-enabled fonts and specified that font cross-reference in your master resource library. This should be defined in the BDF (requires access rights to BDF). Then, define it in the XRF setting in configuration group in INI.

Make sure the FXR has been copied to the \deflib directory in the workspace, then you are ready to begin creating forms with Unicode characters.

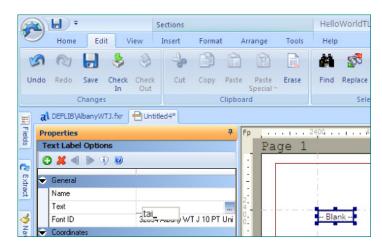


In Documaker Studio, insert a new text label as you normally would. The Text Label Properties window lets you enter Unicode characters.

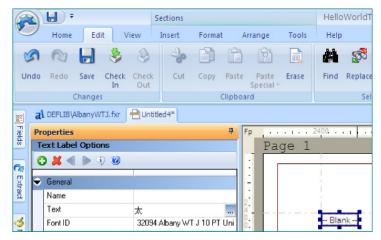
If the font you have selected for this text label is Unicode-enabled then you will see the letters *Uni* in the font description after the point size.

To enter Unicode text into the Text field, select the input method editor (IME) you want to use by clicking the EN icon on the task bar. After you have selected the IME to use, you can begin typing characters for that language. As you accept characters from the IME, they will appear in the Text Label Properties window.

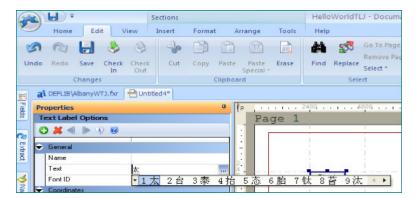
The mechanics of each input method editor (IME) are different so you will need to learn the specifics of the IME you will use. Some input method editors let you type the letters that represent the pronunciation of the word you want to enter. You can also paste the desired text into the text label. After enabling a Chinese IME, you would begin by typing the letters *tai*. The composition window might appear as follows:



When you press the Spacebar, the letters in composition window disappear and the first character appears in the Text field.



The character displayed is just the first choice of a list of candidate characters that sound similar to *tai*. Some IMEs show you this list of candidate characters immediately and some require you to mouse click on the initial character.



Once you have selected the character you want to use, press the Spacebar to finalize the selection. The display of the character and cursor will change slightly to indicate that the IME has completed the character.



After you finish typing the characters for the text label, click Ok and the characters appear on the form.

1	.ge	1	2400	• 1	 . 48
			R		
			太阳		

Similarly, you can create text areas with characters for the IME you have selected. As you accept characters from the IME, they appear in the text area.

When creating variable fields, you must select a font that is Unicode-enabled. When
you have finished composing your form, it might look something like this:

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							1			
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			SAMPCO	INSURAN	CE COM	PANYLD	TED OF CH	INA		
			रंग लोग	车辆(-	CTE -	÷)	No: e	EONUMBE	
				+ 44 1	~ r= +	· (#	1			
		INSUREDNA			1		保险单号:			
	基于5 根据济培(2条人一向本来过入3 ————————————————————————————————————	1.花枝保丰情	,并同意決抗	定页的保险	表,迷保险	人(改現象(制理制)	CH-MAN IN	ज्या विकास के लिख	*
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Text Area : After inserting a text area, select Format, Paragraph to access paragraph properties.

P	Paragraph prop	erties	
P	aragraph Tab stops	Border Shade Bullets	
Ρ	aragraph properti	ies	
C	0 X Q 🛛		This is a sample text to show paragraph preview.
÷	General		_
	Alignment	Left	
	Level	0	-
	Direction	Left-to-right	
÷	Indentation	Left-to-right	4
Г	Left	Right-to-left]
	Right	0.000 Inches	
	Special	None	
	Ву	0.000 Inches	
÷	Spacing		

There are 2 direction options – Left to right and Right to Left. Use Right to Left for languages such as Arabic.

USING DOCUMAKER SERVER

Documaker Server uses resources you create using Studio to process information and forms. This processing includes merging external data onto forms, processing data according to rules you set up, creating print-ready files, archiving data and forms, and, if applicable, sending incomplete forms to Work In Progress (WIP) for completion by a user.

USING VARIABLE FIELDS

To enable a variable field for Unicode data, you must use a font ID that is Unicodeenabled. You can tell that a font ID is Unicode-enabled by looking at the characters displayed after the point size in the font description.

If you have also installed the Unicode font as a screen font, you will see a list of Unicode character ranges supported by the screen font. The list of Unicode character ranges is purely informational; selecting one of the entries has no effect. If you only see *ANSI* in the list, the screen font is not Unicode-enabled.

Note The variable field cannot be a multiline text field if the mapped data requires Unicode fonts.

MAPPING DATA

Encoding Standards

Here is a description of the encoding standards supported by the Documaker XML parser.

Use	When the XML document contains
US-ASCII	Only ASCII characters (code points 32-126). ASCII characters are the type-able characters found on a U.S. English keyboard.
ISO-8859-1	A subset of the characters in the Windows code page 1252 (ASCII characters at code points 32-126, plus additional characters at code points 160-255).
UTF-8	Any character supported by Unicode. Unicode 3.0 supports over 49,000 characters.

Note UTF-8 (Unicode Transformation Format, 8-bit encoding form) is a format for writing Unicode data in text files (which are normally processed sequentially, one byte at a time). UTF-8 data can be written into an extract file and subsequently used by Documaker. If no encoding is specified, then an encoding of ISO-8859-1 is assumed.

Once you select a font ID that is Unicode-enabled for a variable field, you can use the AnyToAny rule to have the system format the data when it maps it to a field. This rule uses the XDD (Extract Data Dictionary) format as the source format and whatever you specify as the target field format for the output.

Alternatively, you can use the Move_It rule to map the data into this field. The Move_It rule can move UTF-8 formatted data into a Unicode-enabled variable field.

Note When defining the length of text that you want to pull from the extract file, set the value to 3 times the number of characters to be displayed when the text will be either Japanese or Simplified Chinese. If the text will be a CTL language - Hindi, Urdu, Telugu for example, set the length to 5 times the number of characters to be displayed.

Each field using the Move_It rule to map UTF-8 formatting data into a Unicodeenabled variable field must have a mask of "8" to indicate that the extract data for this field is stored in the UTF-8 format. Here is how you specify the 8 mask (UTF-8) for a variable field in Studio:

Options	
Name	INSRNAME
Parent	INSRDNAME
Offset	101
Length	30
Rule	Move_It
Required	Not
Туре	Alphanumeric
Locale	Neutral
Mask	8
Table Index Value	0
Overflow Multiplier	0
Overflow	Default
Conditional	No
Description	
Search Mask is an XPath	No
Data	1.CLIENT.NAME
Unique Identifier	1327530483

Note For information on using these print drivers, see the Rules Reference.

In the preceding dialog, The INSRNAME field uses the Move_It rule and has a mask of 8 to indicate that the extract data is in UTF-8 format.

Now look at the extract file data to make sure this is correct. Note in the window above, the record for INSRNAME is identified by the text, *CLIENT.NAME* starting in column 1. The actual data to be used for INSRNAME is stored at Offset 101 for a length of 30. Here is an example of this record in an extract file:

CLIENT.NAME $:a - \pi e^{3} a_{f} = e^{3} a_{f} e^{3} B$

The colon (:) indicates column 100, the UTF-8 data follows the colon at column 101.

The UTF-8 data (å-¬æ²»å, f殚) is not very readable in a regular text editor.

VIEWING UTF-8 DATA

One way to view this data is through the Internet Explorer. By loading the extract file in the browser, the example record in the extract file would appear as follows:

```
CLIENT.NAME: a_{\neg x^2 \gg a} f x \otimes S
```

In other words, the UTF-8 data $(a_{-\neg x^2 \gg a_{,fx}})$ can be interpreted as the following characters:

```
a - \overline{x^2} \approx f \in \mathbb{R} \check{S}
```

In many cases, the browser will automatically detect the UTF-8 data and display the UTF-8 data appropriately. If it does not, choose View, Encoding and select the Unicode (UTF-8) option.

Keep in mind, it is expected that the extract file that will contain the Unicode data is provided in UTF-8 encoding. While Documaker supports the following encodings: UTF-8, ISO-8859-1, and US-ASCII; only those XML files encoded in UTF-8 can be used for Unicode data processing. Here is an example of an XML header that specifies UTF-8 encoding:

<?xml version="1.0" encoding="UTF-8" ?>

When Documaker gets data from the extract file using either the ANY2ANY or the MOVE_IT rule, it retrieves the number of characters as indicated in the source field's length property. If the data to be mapped is Japanese or Simplified Chinese, set the length to a value three times the number of characters you want to retrieve from the extract file. If the data to be mapped is a Complex Text Layout (CTL) language such as Hindi, Hebrew and Telugu, set the length to a value five times the number of characters you want to retrieve from the extract syou want to retrieve from the extract file.

If your library resources are maintained with Image Editor instead of Documaker Studio, be sure to set the LoadCordFAP INI option to Yes in your runtime environment when using Unicode variable fields.

PRINTING UNICODE DATA

To print Unicode data, you must have printer fonts and printer drivers that support Unicode. Documaker has three printer drivers that support Unicode: GDI, PCL6, RTF, HTML, Bitmap, MPM and PDF (via TrueType fonts).

Note For information on using these print drivers, see the Output Management Guide.

GDI print driver

The GDI print driver allows you to use a Windows print driver for printing. There is nothing special you need to do to print Unicode using the GDI driver. Since our PostScript driver does not support Unicode yet and our PCL5 driver will not support Unicode, you can use the GDI driver to print to these types of printers.

PCL6 print driver

Documaker includes both the original PCL printer driver, PCLLIB, which supports PCL 5, 5c, and 5e and a new PCL printer driver, PXLLIB, which supports PCL 6.

PCL 6 is a newer version of the PCL language, not a superset of PCL 5. It is a completely different page description language (PDL). PCL 6 is a stack-based protocol (similar to PostScript) composed of attributes and operators that let you define paths, clip paths, pens, brushes, fonts, raster patterns, and so on. PCL 6 also supports 16-bit character codes, which makes it a better choice for supporting Unicode than PCL 5.

Oracle Insurance's PCL6 print driver will support Unicode data, the PCL5 driver will not.

Both the PCL5 and PCL6 print drivers use the PCL printer section of the FXR file. The PCL6 print driver supports PCL5 bitmap fonts and TrueType fonts. You can use PCL5 bitmap fonts for printing ASCII data (SBCS). However, to printing Unicode data, you must use TrueType fonts. To specify a TrueType font in the PCL printer section of the FXR, enter the name of the TrueType font in the Font File field.

The TrueType font must reside in the FontLib directory as specified in your master resource library (MRL).

You must define the necessary printer options for the GenPrint and other Documaker programs to produce PCL 6 output. These options specify PCL 6 output and are located in a PrtType:xxx control group, such as PrtType:PXL. Many of the PCL 5 and PCL 6 printer INI settings are the same.

The following INI options are different for PCL 6:

Module	=	PXLW	132					
PrintFunc	=	PXLE	rint					
DownloadFonts	=	Yes	(internal	font	selection	is	not	supported)

These INI options are not supported for PCL 6:

- SendOverlays
- OverlayPath
- OverlayExt
- FitToWidth

- AdjLeftMargin
- StapleBin
- PJLCommentScript
- PJLCommentOn
- OutputBin
- HighlightColor
- Tray# (where # is 1,2,3, and so on)

Keep in mind...

- Because the PCL 6 driver supports PCL bitmap fonts, you can use existing MRLs. Just remember to change your INI options as discussed above.
- The PCL 5 driver does not support TrueType fonts.
- When printing with a TrueType font using the PCL 6 driver, only the characters used on the form are downloaded into the print stream. This reduces the size of print stream files, particularly if the TrueType font includes support for Asian languages.
- In comparison to the PCL 5 printer driver, the PCL 6 driver has these limitations:
 - No overlay support
 - No support for a separate downloadable font file which contains multiple PCL fonts
 - No internal printer font support
 - Less paper tray support, no INI options to specify which PCL commands to use
 - No INI options to specify PCL commands to output bin or staple bin
 - No highlight color support
 - No comment script support

PDF print driver

The PDF print driver supports Unicode data. Adobe Acrobat supports Unicode in version 4.0 and higher. We recommend you use version 5.0 or higher.

To create a PDF file containing Unicode data, you must specify a TrueType font to be embedded (downloaded) into the PDF file. You cannot use the internal Acrobat fonts or embed PostScript fonts when printing Unicode data; you must embed a TrueType font. The process for embedding a TrueType font into a PDF file is the same as it was before.

Note You may not be able to view archived data containing Complex Text Layout languages, if the archive is retrieved using Documaker releases prior to version 12.2 and higher.

The Unicode data in the NA file will be written out as UTF-8 data. To look at the UTF-8 data as Unicode characters, see *Viewing UTF-8 Data* on page 34.

For Documaker Studio, you could run Test Manager.

WRITING CUSTOM RULES WITH UTF-8 ENCODED XML

Memory representation

Use this information if you have to write Documaker or IDS code and you need to know how data is presented in memory on the XML tree.

- The data on XML tree is always stored in UTF-8 format. The Documaker rules or any other code has to do a conversion into the appropriate format, either Unicode or the ANSI character set, based on the destination format you need.
- The code that uses Oracle Insurance libraries to deal with the Unicode characters should be passing in the flag to create XML text (DXMFLAG_WIDECHAR). If this flag is passed in, the XML library converts the Unicode string into a UTF-8 encoded string.
- The code that needs to create XML text from already UTF-8 encoded string should use the DXMFLAG_UTF8 flag to create text. When this flag is used, no conversion occurs.
- The code that has to create text from an ANSI string should not set any flags. The CreateText API takes care of converting strings into a UTF-8 representation in memory.
- When getting text from XML library, the calling application should do its own conversion from UTF-8 into the appropriate format, either ANSI or Unicode.

Oracle Insurance may add an API or a parameter to the existing API to help with this conversion, but for now you must handle the conversion. There are a couple of APIs in UTLLIB, UTLUtf8ToAnsi and Utf8ToUtf16, that convert a UTF-8 string into ANSI characters and Unicode characters.

FREQUENTLY ASKED QUESTIONS

Why does text appear jumbled or change to question marks after you change the font ID?

When you create a text label with a Unicode-enabled font ID, the text label contains two-byte Unicode characters, even if the text is English. Font IDs that are not Unicode-enabled do not contain character width information for Unicode characters. Therefore, if you use the Edit, Font Change option in the Image Editor to change the font ID to a font ID that is not Unicode-enabled, the Unicode characters will have no width and will appear jumbled on top of one another.

If you change the font ID from within the Text Label window to a font ID that is not Unicode-enabled, the system tries to convert the text from Unicode to normal ANSI characters. For example, the following text label starts out as Unicode text because it uses a Unicode enabled font ID:

C-AUTO v1.2 1/1/1980	
Properties	Ф
Text Label Options	
C 其 🜒 🕨 🦉 🥘 🛛	
🗢 General	
Name	
Text	SAMPCO INSURANCE COMPANY
Font ID	18010 Thorndale WT J 10 PT Uni (
Coordinates	

Now if you change the font ID to a normal (non-Unicode) font ID, the text is changed to ANSI characters (notice that the characters *Uni* do not appear in the font description and the list box only contains the word, *ANSI*):

	*
Properties	ф.
Text Label Options	
C 🞽 🜒 🕨 🥘 🥘	
🗢 General	
Name	
Text	SAMPCO INSURANCE COMPANY LI
Font ID	25347 Arial 10 PT (PCL 0th)
➡ Coordinates	

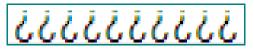
However, if you tried this with a text label containing Chinese Unicode text, the text would lost when switching to a non-Unicode font ID:

Properties	д
Text Label Options	
ⓒ 🗶 ◀ 🕨 🤍 🥘	
🗢 General	
Name	
Text 新卡保险股份有限公司	
Font ID 18024 Thorndale WT J 24 PT Uni (

Watch what happens when you change the font ID to a normal font ID:

E	SC-AUTO v1.2 1/1/1980*		
Pr	operties		ą
T	ext Label Options		
C) 样 🜒 🕨 🦉 🖉		
÷	General		
	Name		
	Text	33333333333	
	Font ID	25347 Arial 10 PT (PCL 0th)	

At this point, the Chinese text is lost unless you close the window. The system tried to convert the Unicode Chinese text to ANSI characters but of course, it could not. At this point, the text label actually consists of ANSI question marks:



Changing the font ID back to a Unicode-enabled font ID just results in Unicode question marks.