

Oracle® E-Business Suite

Desktop Integration Framework Developer's Guide

Release 12.1

Part No. E15877-02

June 2010

Oracle E-Business Suite Desktop Integration Framework Developer's Guide, Release 12.1

Part No. E15877-02

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Primary Author: Clara Jaeckel

Contributing Author: Padmaprabodh Ambale, Rekha Ayothi, Senthilkumar Ramalingam, Ramkumar Sekar

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Oracle E-Business Suite Desktop Integration Framework Developer's Guide, Release 12.1

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Preface

Intended Audience

Welcome to Release 12.1 of the *Oracle E-Business Suite Desktop Integration Framework Developer's Guide*.

This guide assumes you have a working knowledge of the following:

- The principles and customary practices of your business area.
- Computer desktop application usage and terminology.

If you have never used Oracle E-Business Suite, we suggest you attend one or more of the Oracle E-Business Suite training classes available through Oracle University.

See Related Information Sources on page viii for more Oracle E-Business Suite product information.

Deaf/Hard of Hearing Access to Oracle Support Services

To reach Oracle Support Services, use a telecommunications relay service (TRS) to call Oracle Support at 1.800.223.1711. An Oracle Support Services engineer will handle technical issues and provide customer support according to the Oracle service request process. Information about TRS is available at <http://www.fcc.gov/cgb/consumerfacts/trs.html>, and a list of phone numbers is available at <http://www.fcc.gov/cgb/dro/trsphonebk.html>.

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Structure

- 1 Introduction to Oracle E-Business Suite Desktop Integration Framework**
- 2 Managing Integrators**
- 3 Managing Components**
- 4 Managing Parameters**
- A Loading Integrator Definitions**

Related Information Sources

This book is included on the Oracle E-Business Suite Documentation Library, which is supplied in the Release 12.1 Media Pack. You can download soft-copy documentation as PDF files from the Oracle Technology Network at <http://www.oracle.com/technology/documentation/>. The Oracle E-Business Suite Release 12.1 Documentation Library contains the latest information, including any documents that have changed significantly between releases. If substantial changes to this book are necessary, a revised version will be made available on the "virtual" documentation library on My Oracle Support (formerly *OracleMetaLink*).

If this guide refers you to other Oracle E-Business Suite documentation, use only the latest Release 12.1 versions of those guides.

Online Documentation

All Oracle E-Business Suite documentation is available online (HTML or PDF).

- **Online Help** - Online help patches (HTML) are available on My Oracle Support.
- **PDF Documentation** - See the Oracle E-Business Suite Documentation Library for

current PDF documentation for your product with each release. The Oracle E-Business Suite Documentation Library is also available on My Oracle Support and is updated frequently.

- **Release Notes** - For information about changes in this release, including new features, known issues, and other details, see the release notes for the relevant product, available on My Oracle Support.
- **Oracle Electronic Technical Reference Manual** - The Oracle Electronic Technical Reference Manual (eTRM) contains database diagrams and a detailed description of database tables, forms, reports, and programs for each Oracle E-Business Suite product. This information helps you convert data from your existing applications and integrate Oracle E-Business Suite data with non-Oracle applications, and write custom reports for Oracle E-Business Suite products. The Oracle eTRM is available on My Oracle Support.

Related Guides

You should have the following related books on hand. Depending on the requirements of your particular installation, you may also need additional manuals or guides.

Oracle E-Business Suite Concepts

This book is intended for all those planning to deploy Oracle E-Business Suite Release 12, or contemplating significant changes to a configuration. After describing the Oracle E-Business Suite architecture and technology stack, it focuses on strategic topics, giving a broad outline of the actions needed to achieve a particular goal, plus the installation and configuration choices that may be available.

Oracle E-Business Suite Flexfields Guide

This guide provides flexfields planning, setup, and reference information for the Oracle E-Business Suite implementation team, as well as for users responsible for the ongoing maintenance of Oracle E-Business Suite product data. This guide also provides information on creating custom reports on flexfields data.

Oracle E-Business Suite Installation Guide: Using Rapid Install

This book is intended for use by anyone who is responsible for installing or upgrading Oracle E-Business Suite. It provides instructions for running Rapid Install either to carry out a fresh installation of Oracle E-Business Suite, or as part of an upgrade. The book also describes the steps needed to install the technology stack components only, for the special situations where this is applicable.

Oracle E-Business Suite Multiple Organizations Implementation Guide

This guide describes the multiple organizations concept in Oracle E-Business Suite. It describes setting up and working effectively with multiple organizations in Oracle E-Business Suite.

Oracle E-Business Suite System Administrator's Guide Documentation Set

This documentation set provides planning and reference information for the Oracle

E-Business Suite System Administrator. *Oracle E-Business Suite System Administrator's Guide - Configuration* contains information on system configuration steps, including defining concurrent programs and managers, enabling Oracle Applications Manager features, and setting up printers and online help. *Oracle E-Business Suite System Administrator's Guide - Maintenance* provides information for frequent tasks such as monitoring your system with Oracle Applications Manager, administering Oracle E-Business Suite Secure Enterprise Search, managing concurrent managers and reports, using diagnostic utilities including logging, managing profile options, and using alerts. *Oracle E-Business Suite System Administrator's Guide - Security* describes User Management, data security, function security, auditing, and security configurations.

Oracle E-Business Suite User's Guide

This guide explains how to navigate, enter data, query, and run reports using the user interface (UI) of Oracle E-Business Suite. This guide also includes information on setting user profiles, as well as running and reviewing concurrent requests.

Oracle General Ledger User's Guide

This guide provides information on how to use Oracle General Ledger. Use this guide to learn how to create and maintain ledgers, ledger currencies, budgets, and journal entries. This guide also includes information about running financial reports.

Oracle Report Manager User's Guide

Oracle Report Manager is an online report distribution system that provides a secure and centralized location to produce and manage point-in-time reports. Oracle Report Manager users can be either report producers or report consumers. Use this guide for information on setting up and using Oracle Report Manager.

Oracle Web Applications Desktop Integrator Implementation and Administration Guide

Oracle Web Applications Desktop Integrator brings Oracle E-Business Suite functionality to a spreadsheet, where familiar data entry and modeling techniques can be used to complete Oracle E-Business Suite tasks. You can create formatted spreadsheets on your desktop that allow you to download, view, edit, and create Oracle E-Business Suite data, which you can then upload. This guide describes how to implement Oracle Web Applications Desktop Integrator and how to define mappings, layouts, style sheets, and other setup options.

Oracle XML Publisher Report Designer's Guide

Oracle XML Publisher is a template-based reporting solution that merges XML data with templates in RTF or PDF format to produce a variety of outputs to meet a variety of business needs. Using Microsoft Word or Adobe Acrobat as the design tool, you can create pixel-perfect reports from the Oracle E-Business Suite. Use this guide to design your report layouts.

This guide is available through the Oracle E-Business Suite online help.

Oracle XML Publisher Administration and Developer's Guide

Oracle XML Publisher is a template-based reporting solution that merges XML data with templates in RTF or PDF format to produce a variety of outputs to meet a variety of business needs. Outputs include: PDF, HTML, Excel, RTF, and eText (for EDI and EFT transactions). Oracle XML Publisher can be used to generate reports based on existing Oracle E-Business Suite report data, or you can use Oracle XML Publisher's data extraction engine to build your own queries. Oracle XML Publisher also provides a robust set of APIs to manage delivery of your reports via e-mail, fax, secure FTP, printer, WebDav, and more. This guide describes how to set up and administer Oracle XML Publisher as well as how to use the Application Programming Interface to build custom solutions.

This guide is available through the Oracle E-Business Suite online help.

Integration Repository

The Oracle Integration Repository is a compilation of information about the service endpoints exposed by the Oracle E-Business Suite of applications. It provides a complete catalog of Oracle E-Business Suite's business service interfaces. The tool lets users easily discover and deploy the appropriate business service interface for integration with any system, application, or business partner.

The Oracle Integration Repository is shipped as part of the E-Business Suite. As your instance is patched, the repository is automatically updated with content appropriate for the precise revisions of interfaces in your environment.

Do Not Use Database Tools to Modify Oracle E-Business Suite Data

Oracle **STRONGLY RECOMMENDS** that you never use SQL*Plus, Oracle Data Browser, database triggers, or any other tool to modify Oracle E-Business Suite data unless otherwise instructed.

Oracle provides powerful tools you can use to create, store, change, retrieve, and maintain information in an Oracle database. But if you use Oracle tools such as SQL*Plus to modify Oracle E-Business Suite data, you risk destroying the integrity of your data and you lose the ability to audit changes to your data.

Because Oracle E-Business Suite tables are interrelated, any change you make using an Oracle E-Business Suite form can update many tables at once. But when you modify Oracle E-Business Suite data using anything other than Oracle E-Business Suite, you may change a row in one table without making corresponding changes in related tables. If your tables get out of synchronization with each other, you risk retrieving erroneous information and you risk unpredictable results throughout Oracle E-Business Suite.

When you use Oracle E-Business Suite to modify your data, Oracle E-Business Suite automatically checks that your changes are valid. Oracle E-Business Suite also keeps track of who changes information. If you enter information into database tables using database tools, you may store invalid information. You also lose the ability to track who has changed your information because SQL*Plus and other database tools do not keep a

record of changes.

Introduction to Oracle E-Business Suite Desktop Integration Framework

This chapter covers the following topics:

- Overview

Overview

Oracle Web Applications Desktop Integrator brings Oracle E-Business Suite functionality to the desktop where the familiar Microsoft Excel, Word, and Project applications can be used to complete Oracle E-Business Suite tasks. Oracle Web Applications Desktop Integrator uses a set of metadata called an integrator to encapsulate all the information needed to integrate a particular Oracle E-Business Suite task with a desktop application. Several Oracle E-Business Suite applications provide seeded integrators for their functionality. With Oracle E-Business Suite Desktop Integration Framework, you can define custom integrators for additional tasks according to your users' needs.

- Tasks in a standard Oracle E-Business Suite application that are not covered by seeded integrators
- Tasks in custom applications developed for your instance

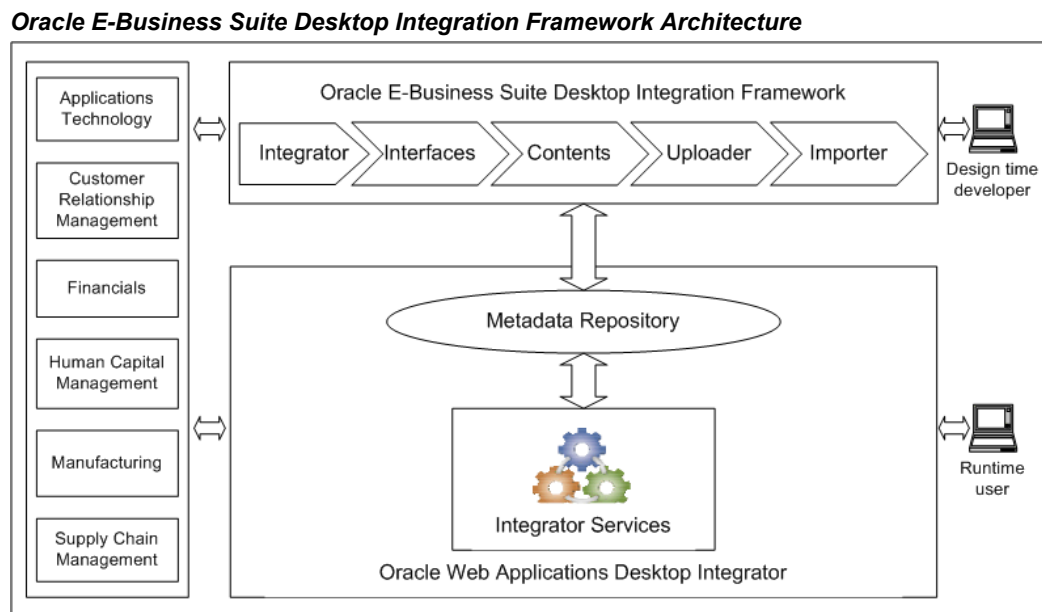
By defining an integrator, you enable your users to do the following.

- Create a formatted document such as a spreadsheet on the desktop containing application-specific fields for data entry.
- Import data into the desktop document from the database or a text file.
- Work with the data in the desktop application while enforcing the owning application's business rules.
- Upload data from the desktop document into Oracle E-Business Suite.

- Validate the data being uploaded and receive immediate feedback about the results of the validation during the upload process.

Oracle E-Business Suite Desktop Integration Framework provides a graphical user interface in which developers can define integrators and all associated supporting objects, without needing to work directly with the underlying Oracle Web Applications Desktop Integrator tables and APIs. Through this user interface, Oracle E-Business Suite Desktop Integration Framework reduces development time, increases developer productivity, and enhances ease of maintenance for the integrators you define.

Oracle E-Business Suite Desktop Integration Framework Architecture



The Oracle E-Business Suite Desktop Integration Framework user interface lets developers define all the metadata required to create a custom integrator, accessing design information from the associated Oracle E-Business Suite application as needed. The integrator metadata is stored in the Oracle Web Applications Desktop Integrator metadata repository, alongside the metadata for seeded integrators.

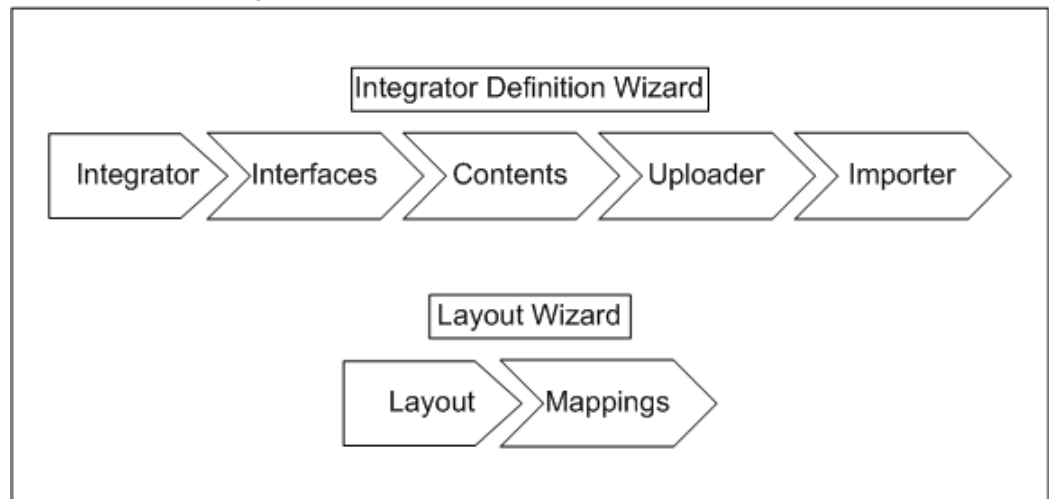
When a user downloads or uploads data between Oracle E-Business Suite and a desktop document, the runtime integrator services for Oracle Web Applications Desktop Integrator use the metadata stored in the repository to perform the specified task in the associated Oracle E-Business Suite application.

Process Flow for Integrator Definition

An *integrator* is a set of metadata that encapsulates all the information needed to integrate a particular Oracle E-Business Suite task with a desktop application.

- You can define integrators that only download data from Oracle E-Business Suite into a desktop document and do not upload data. The document serves as a report of the Oracle E-Business Suite data that can be viewed in the desktop application. This type of integrator is called a *reporting-only integrator*.
- You can also define integrators that create a desktop document and then upload data from that document into Oracle E-Business Suite. An integrator can create a document in one of these ways.
 - Create a blank document that is laid out and formatted according to an Oracle E-Business Suite application's business rules but contains no data. Users must enter all data into the document manually.
 - Create a document that is initially populated with data from a text file. Users can work with the data in the desktop application before uploading it to Oracle E-Business Suite.
 - Create a document that is initially populated with data downloaded from Oracle E-Business Suite through a SQL query or Java class. Users can work with the data in the desktop application before uploading it back to Oracle E-Business Suite.

Process Flow for Integrator Definition



Oracle E-Business Suite Desktop Integration Framework provides a wizard interface to guide you through the main steps for defining integrators. In the integrator definition wizard, you can perform the following tasks:

- Define basic integrator properties.
- Define an interface for the integrator. An *interface* is a set of metadata that

determines how the integrator uploads data from a desktop document to Oracle E-Business Suite. An *interface attribute* defines a single data column within the interface.

You do not need to define an interface for a reporting-only integrator.

- Define contents for the integrator. A *content* is a set of metadata that determines what data the integrator uses to populate the desktop document that it creates. A *content column* defines a single data column within the content. You can define these content types:
 - Text File - Populate the desktop document with data from a text file.
 - SQL Query - Populate the desktop document with data from a SQL query that selects from Oracle E-Business Suite application tables.
 - Java - Populate the desktop document with data returned by a Java class from Oracle E-Business Suite application tables.

You should always define at least one SQL query or Java content for a reporting-only integrator. If you want the integrator to create a blank document initially, then you do not need to define a content for the integrator.

- Define an uploader for the integrator. An *uploader* is a set of metadata that determines what options are available to a user in the upload parameters window when the user uploads data from a desktop document to Oracle E-Business Suite.

You do not need to define an uploader for a reporting-only integrator.

- Define an importer for the integrator. An *importer* is a set of metadata that determines how Oracle Web Applications Desktop Integrator moves uploaded data from Oracle E-Business Suite interface tables to base application tables. Define an importer if you want to invoke an import process automatically after uploading data from the desktop document to the interface tables. An importer can invoke one of these types of import processes:
 - Asynchronous concurrent request
 - Synchronous concurrent request
 - PL/SQL API

You do not need to define an importer for a reporting-only integrator.

Oracle E-Business Suite Desktop Integration Framework also provides a user interface that lets you manage and create components for use in integrators. A *component* is a set of metadata that provides a list of values for a field in a document.

Additionally, Oracle E-Business Suite Desktop Integration Framework provides a user interface that lets you define parameters for an integrator.

After completing the main integrator definition in the wizard, you can also optionally define layouts and mappings for use with your integrator. A *layout* is a set of metadata that determines what fields appear in the desktop document and how those fields are displayed and formatted. A *mapping* is a set of metadata that links content columns to the corresponding interface attributes. You can create layouts and mappings for your users to use with the integrator you defined. Depending on the access granted to them, users can also define layouts and mappings themselves. See: *Oracle Web Applications Desktop Integrator Implementation and Administration Guide*.

Managing Integrators

This chapter covers the following topics:

- Managing Integrators
- Defining Integrators

Managing Integrators

An *integrator* is a set of metadata that encapsulates all the information needed to integrate a particular Oracle E-Business Suite task with a desktop application. Use the Integrators page to view and manage the integrators defined for your Oracle E-Business Suite installation.

To manage integrators:

1. Navigate to the Integrators page from the Oracle E-Business Suite Navigator by choosing either Desktop Integration Manager: Manage Integrators or a custom responsibility and menu path specified by your system administrator.
2. Search for the integrators you want to display. You can enter the following search criteria:
 - Integrator Name - Enter the display name of the integrator. You can enter a partial value to search for integrators whose names contain that value.
 - Internal Name - Enter the unique internal name of the integrator. You can enter a partial value to search for integrators whose names contain that value.
 - Application - Select the application that owns the integrator.
 - Enabled - Select Yes to search for integrators that are enabled or No to search for integrators that are disabled.
 - Source - Select Oracle to search for integrators seeded by Oracle E-Business

Suite or Custom to search for custom integrators.

The search criteria fields are all case-insensitive.

Integrators Page

3. To view an integrator definition in read-only mode, choose the integrator name link for that integrator. See: Defining Integrators, page 2-3.

4. To update an integrator, choose the update icon for that integrator. See: Defining Integrators, page 2-3.

Note: You can only update custom integrators.

5. To delete an integrator, choose the delete icon for that integrator.

Note: You can only delete custom integrators.

6. To define a layout for an integrator, select the integrator and select the Define Layout button. See: Defining Layouts, *Oracle Web Applications Desktop Integrator Implementation and Administration Guide*.
7. To define a mapping for an integrator, select the integrator and select the Define Mapping button. See: Defining Mappings, *Oracle Web Applications Desktop Integrator Implementation and Administration Guide*.
8. To test how an integrator creates a desktop document, select the integrator and

select the Preview button. Oracle Web Applications Desktop Integrator then displays the Create Document page flow, with the specified integrator selected, to let you finish creating the preview document. See: *Creating a Spreadsheet, Oracle Web Applications Desktop Integrator Implementation and Administration Guide*.

9. To define a new integrator, select the Create Integrator button. See: *Defining Integrators*, page 2-3.

Defining Integrators

Use the integrator definition wizard to create a new integrator, update an existing integrator, or view the definition for an existing integrator.

Note: You can only update custom integrators.

To define an integrator:

1. Navigate to the integrator definition wizard by one of the following methods:
 - Choose the Create Integrator button in the Integrators page.
 - Choose the update icon in the Integrators page.
 - From the Oracle E-Business Suite Navigator, choose either Desktop Integration Manager: Create Integrator or a custom responsibility and menu path specified by your system administrator.

If you are updating an existing integrator, then the fields in the wizard are populated with previously defined information for the selected integrator.

2. In the first step of the wizard, define the basic properties of the integrator. See: *To define integrator information*, page 2-5.
3. If you want to use this integrator to upload data from a desktop document to Oracle E-Business Suite, define an interface for the integrator in the second step of the wizard. See: *To define interfaces*, page 2-7.
4. In the third step of the wizard, optionally define contents for the integrator. See: *To define contents*, page 2-16.
5. If you want to use this integrator to upload data from a desktop document to Oracle E-Business Suite, define the uploader for the integrator in the fourth step of the wizard. See: *To define an uploader*, page 2-19.
6. If you want to use this integrator to import uploaded data from Oracle E-Business Suite interface tables to application base tables, define the importer for the

integrator in the fifth step of the wizard. See: To define an importer, page 2-25.

To view an integrator definition:

1. Navigate to the integrator definition wizard by choosing the integrator name link in the Integrators page. The integrator definition appears in the wizard in read-only mode.
2. Use the Next and Back buttons to navigate among the pages of the wizard. For more information about the fields displayed in each page, see: To define integrator information, page 2-5, To define interfaces, page 2-7, To define contents, page 2-16, To define an uploader, page 2-19, and To define an importer, page 2-25.
3. Choose the Cancel button in the Integrator Information, Interfaces, Contents, Uploader, or Importer page to return to the Integrators page.

To define integrator information:

Integrator Information Page

The screenshot shows the Oracle Desktop Integration Manager interface. The top navigation bar includes links for Navigator, Favorites, Diagnostics, Home, Logout, Preferences, and Help. Below this is a breadcrumb trail: Integrator > Interfaces > Contents > Uploader > Importer. The main section is titled 'Integrator Information' and includes a 'Cancel' button and 'Step 1 of 5' with a 'Next' button. The 'Enter Integrator Information' section contains the following fields:

- * Integrator Name: Text input field.
- * Internal Name: Text input field with a tooltip that reads: 'Internal Name should contain only uppercase characters 'A-Z', numbers '0-9' and underscore '_'.'
- * Application: Text input field with a search icon.
- Enabled: A dropdown menu currently set to 'Yes'.
- Reporting Only: A checkbox.
- Display in Create Document Page: A checkbox.

Below the 'Enter Integrator Information' section is the 'Integrator parameters' section, which is currently collapsed. Below that is the 'Security Rules' section, which includes a 'Function' input field with a search icon and an 'Add' button, and a 'Selected Functions' list box.

At the bottom of the page, there is a footer with links for 'About this Page' and 'Privacy Statement', and a copyright notice: 'Copyright (c) 2006, Oracle. All rights reserved.'

1. In the Enter Integrator Information region of the Integrator Information page, enter the display name of the integrator.
2. Enter a unique internal name for the integrator. The internal name can include only the following characters:
 - Uppercase letters from A through Z
 - Numerals from 0 through 9
 - The underscore character (_)

Oracle E-Business Suite Desktop Integration Framework uses the internal name of the integrator to generate internal names for the supporting objects associated with the integrator, such as interfaces, contents, layouts, and mappings.

Note: To preserve consistency, you cannot update the internal name of an existing integrator.

3. Select the application that owns the integrator.

Note: To preserve consistency, you cannot update the application of an existing integrator.

4. If you want to use this integrator only for exporting data from Oracle E-Business Suite to a desktop document, select the Reporting Only option. In this case the document serves as a report of the Oracle E-Business Suite data that can be viewed in the desktop application. If you want to use this integrator to upload data from a desktop document to Oracle E-Business Suite, do not select this option.
5. In the Enabled field, select Yes to enable this integrator or No to disable this integrator. If you disable an integrator, its definition remains available for reference, but you cannot use it to define layouts or mappings, create a document, or download or upload Oracle E-Business Suite data.
6. If you want your users to be able to select this integrator in the Create Document page flow within Oracle Web Applications Desktop Integrator, select the Display in Create Document Page option. If you will include the functionality to create documents within the functional page flow of your own application, then you do not need to select this option.
7. To specify parameters for the integrator, expand the Integrator Parameters region. See: Managing Parameters, page 4-1.
8. Select the server-side upload parameter list.
9. Select the document parameter list for use in the Create Document page flow in Oracle Web Applications Desktop Integrator.
10. Select the session parameter list.
11. The Security Rules region displays a list of form functions through which the integrator can be accessed. A user must have menu access to at least one of these functions in order to use this integrator, including creating a desktop document, using a list of values based on Oracle E-Business Suite data within the desktop document, and uploading data to Oracle E-Business Suite. To add a function to the list, select the function in the Function field and select the Add button. You can repeat this step to allow access through additional functions.
12. Select Next.
 - If you did not select the Reporting Only option, then the integrator definition wizard displays the Interfaces page. See: To define interfaces, page 2-7.
 - If you selected the Reporting Only option, then you do not need to define an

interface. In this case the integrator definition wizard proceeds directly to the Contents page. See: To define contents, page 2-16.

To define interfaces:

An *interface* is a set of metadata that determines how the integrator uploads data from a desktop document to Oracle E-Business Suite. Use the Interfaces page of the integrator definition wizard to create and manage an interface.

Important: Oracle Web Applications Desktop Integrator currently supports only one interface per integrator. Consequently, when you define a custom integrator, you should create only one interface in the Interfaces page.

Note: If you selected the Reporting Only option while defining the integrator information, do not manually define an interface for the integrator. Oracle E-Business Suite Desktop Integration Framework automatically defines a default placeholder interface for reporting-only integrators.

Interfaces Page

The screenshot displays the Oracle Desktop Integration Manager web interface. At the top, there's a navigation bar with 'ORACLE' logo and 'Desktop Integration Manager' title. Below it, a breadcrumb trail shows 'Integrator', 'Interfaces' (current), 'Contents', 'Uploader', and 'Importer'. A confirmation message states 'Interface created successfully'. The main section is titled 'Interfaces' and contains a 'Create Interface' button. Below this is a table with the following data:

Select	Interface Name	Type	Entity Name	Delete
<input type="radio"/>	Test Interface	Table	GL_INTERFACE	

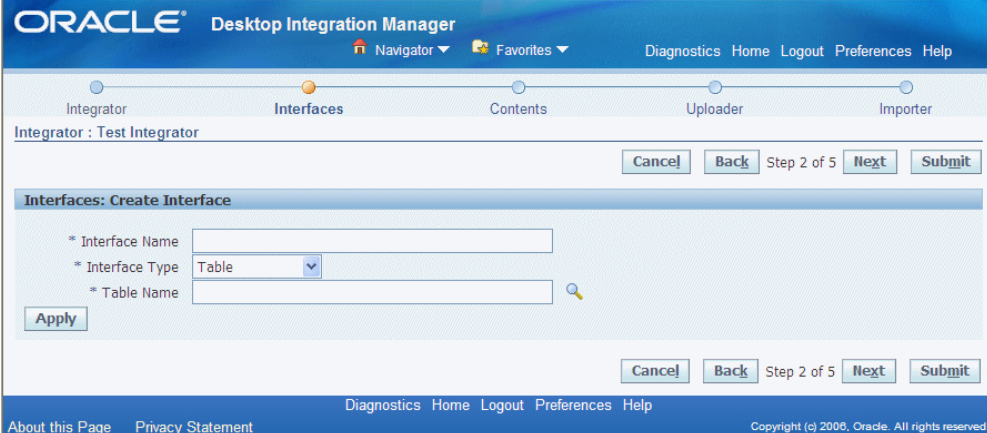
At the bottom, there are navigation buttons: 'Cancel', 'Back', 'Step 2 of 5', 'Next', and 'Submit'. The footer includes 'About this Page', 'Privacy Statement', and 'Copyright (c) 2006, Oracle. All rights reserved.'

1. If an interface is already defined for this integrator, the Interfaces page displays the list of interfaces.
 - To update the name of an interface, enter the new name in the Interface Name field.

- To delete an interface, choose the delete icon for that interface.
- To create a new interface, select the Create Interface button. The Create Interface region appears.

If no interface has yet been defined for the integrator, then the Interfaces page displays the Create Interface region in place of the interfaces list.

Create Interface Region



The screenshot displays the 'Create Interface' region within the Oracle Desktop Integration Manager. The top navigation bar includes the Oracle logo, 'Desktop Integration Manager', and links for Navigator, Favorites, Diagnostics, Home, Logout, Preferences, and Help. Below this, a breadcrumb trail shows 'Integrator: Test Integrator' and 'Interfaces'. The main form area contains three input fields: 'Interface Name', 'Interface Type' (a dropdown menu currently showing 'Table'), and 'Table Name'. An 'Apply' button is located below the 'Table Name' field. At the bottom of the form, there are 'Cancel', 'Back', 'Next', and 'Submit' buttons, with 'Step 2 of 5' indicated. The footer of the page includes 'About this Page', 'Privacy Statement', and 'Copyright (c) 2006, Oracle. All rights reserved.'

2. In the Create Interface region, enter the interface name.
3. Select the interface type, either table, API - procedure, or API - function.
4. For a table interface, select the table name. Oracle E-Business Suite Desktop Integration Framework creates an interface attribute for each column in the table.
5. For a procedure interface, enter the package name and procedure name. Oracle E-Business Suite Desktop Integration Framework creates an interface attribute for each input argument in the procedure. You can also optionally specify whether the procedure returns an error message or an FND message code if it encounters an error.
6. For a function interface, enter the package name and function name. Oracle E-Business Suite Desktop Integration Framework creates an interface attribute for each input argument in the function. If the function returns more details about any error that it encounters, select the Returns Error Information option. You can also optionally specify whether the function returns an error message or an FND message code if it encounters an error.
7. Choose Apply.
8. In the Interfaces page, select an interface in the list to display its details, including

interface attributes.

Interfaces Page with Interface Attributes Region

ORACLE® Desktop Integration Manager

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Integrator Interfaces Contents Uploader Importer

Integrator : Test Integrator

Cancel Back Step 2 of 5 Next Submit

Interfaces

Create Interface

Select Interface Name Type Entity Name Delete

Test Interface Table GL_INTERFACE

Interface : Test Interface

Interface Attributes

Add Attribute View Groups Previous 1-25 Next 25

Attribute Name	Prompt Left	Data Type	Enabled	Displayed	Default Type	Default Value	Attribute Type	Update Delete
FUNDS_RESERVED_FLAG	FUNDS_RESERVED_FLAG	String	✓	✓			Real	[Edit] [Delete]
CODE_COMBINATION_ID_INTERIM	CODE_COMBINATION_ID	Number	✓	✓			Real	[Edit] [Delete]
MANAGEMENT_SEGMENT_VALUE	MANAGEMENT_SEGMENT	String	✓	✓			Real	[Edit] [Delete]
BALANCING_SEGMENT_VALUE	BALANCING_SEGMENT	String	✓	✓			Real	[Edit] [Delete]
SET_OF_BOOKS_ID	SET_OF_BOOKS_ID	Number	✓	✓			Real	[Edit] [Delete]
REFERENCE_DATE	REFERENCE_DATE	Date	✓	✓			Real	[Edit] [Delete]
GL_SL_LINK_TABLE	GL_SL_LINK_TABLE	String	✓	✓			Real	[Edit] [Delete]

- For a procedure interface, you can optionally update whether the procedure returns an error message or an FND message code if it encounters an error.
 - For a function interface, you can optionally update whether the function returns more details about any error that it encounters and whether the function returns an error message or an FND message code if it encounters an error.
9. The Interface Attributes region initially displays the attributes that were automatically created for the interface based on the specified table columns or API arguments. These attributes are referred to as *real* interface attributes. To define an additional *custom* interface attribute that can appear in a layout, choose Add Attribute. See: To define an interface attribute, page 2-11.
- Note:** If you want to define an attribute group, you should define a custom attribute to use as the parent attribute for the group.
10. You can update some attribute details directly in the Interface Attributes region.
- Enter a prompt to appear to the left of the attribute if it appears in the header region of a document. This prompt is also used as the display name of the attribute.

- Select whether the attribute is enabled for use in a layout.
- Select whether the attribute is available for display in a layout.
- Optionally select the source type from which the default value for the attribute is derived, either Constant, Environment Variable, Parameter, Profile Option, SQL Query, or Lookup.
- Enter a default value for the attribute corresponding to the selected type.

You can also choose the update icon for an attribute to update additional attribute details. See: To update an interface attribute, page 2-13.

11. To delete an interface attribute, choose the delete icon for that attribute.
12. If validation of one interface attribute depends on the value of another attribute, or if several attributes are validated the same way, you can associate those attributes with each other by defining an attribute group and perform validation for all attributes in the group together. To view and manage groups, choose View Groups. See: To manage interface attribute groups, page 2-14.
13. To proceed to the Contents page, select Next, or to save this integrator definition without defining contents or an uploader or importer, select Submit.

To define an interface attribute:

Interface Attribute Definition Page

The screenshot displays the 'Interface Attribute Definition' page in the Oracle Desktop Integration Manager. The page is titled 'Interface Attribute Definition' and includes a 'Cancel' and 'Save' button. The main form area contains the following fields and options:

- Attribute Name:** A text field containing 'ATTRIBUTE135'. A tooltip indicates: 'Attribute Name should contain only uppercase characters 'A-Z', numbers '0-9' and underscore ' _ ''.
- Data Type:** A dropdown menu set to 'Number'.
- Length:** A text field for specifying the length.
- Attribute Type:** A dropdown menu set to 'Custom'.
- Enabled:** A checked checkbox.
- Other checkboxes:** 'Displayed (Available for display in layout)', 'Required (To be included in all layouts)', 'Available for summary', 'Read Only', 'Enabled for Mapping', and 'Not Null'.
- Default Value:** A section with 'Default Type' and 'Default Value' fields.
- Validation:** A section with 'Validation Type', 'Group Name', 'Component Name', and 'Lov Type' fields.
- Display Texts:** A section with 'Prompt Left / Display Name', 'Prompt Above', and 'User Hint Text' fields.

At the bottom of the page, there are 'Cancel', 'Back', 'Next', and 'Submit' buttons, along with a 'Step 2 of 5' indicator. The footer includes 'About this Page', 'Privacy Statement', 'Diagnostics', 'Home', 'Logout', 'Preferences', 'Help', and a copyright notice: 'Copyright (c) 2008, Oracle. All rights reserved.'

1. In the Interface Attribute Definition page, enter a unique internal name for the attribute. The name can include only the following characters:
 - Uppercase letters from A through Z
 - Numerals from 0 through 9
 - The underscore character (_)
2. Select the attribute data type, either number, string, or date.
3. Enter the size of the interface table column or the character length of the interface API parameter to which this attribute corresponds.
4. Select whether the attribute is enabled for use in a layout.

5. Select whether the attribute is available for display in a layout.
6. Select whether the attribute is required to be included in all layouts for this integrator.
7. Select whether the attribute can be summed to form a total value.
8. Select whether the attribute is read-only. A read-only attribute is placed in the context section of the desktop document and users cannot change its value.
9. Select whether the attribute is enabled for use in a mapping, to be mapped to a content column.
10. Select whether the interface table column or the interface API parameter to which this attribute corresponds must not be null.
11. Optionally select the source type from which the default value for the attribute is derived, either Constant, Environment Variable, Parameter, Profile Option, SQL Query, or Lookup.

Note: The default value for an attribute is not inserted into the document when the document is created. Instead, if no other value has been specified for the attribute, the default value is derived and inserted when the user performs an upload.

12. Enter a default value for the attribute corresponding to the selected type.
13. Select the validation type for the attribute, either Descriptive Flexfield, Descriptive Flexfield Context, Descriptive Flexfield Segment, Group, Java, Key Flexfield, Key Flexfield Segment, or Table. If you only want to validate the data type, length, and not null requirement for the attribute, then you can leave the validation type blank.
14. If the attribute should be validated as part of an attribute group, select the group name. See: To manage interface attribute groups, page 2-14.
15. If the attribute should use a list of values defined in a component, select the component name. See: Managing Components, page 3-1.
16. Select the type of list of values that the component uses, either None, Pop List for a predefined static set of values, or Standard for a dynamic set of values based on Oracle E-Business Suite data.
17. Enter a prompt to appear to the left of the attribute if it appears in the header region of a document. This prompt is also used as the display name of the attribute.
18. Optionally enter a prompt to appear above the attribute if it appears in the lines

region of a document.

19. Optionally enter hint text to provide users further guidance on the attribute. The hint text appears between the header region and the lines region in the document.
20. Choose Save.

To update an interface attribute:

1. Use the Interface Attribute Definition pop-up window to update attribute details that are not displayed in the Interfaces page.

Note: To preserve consistency, you cannot update the interface name, data type, length, or attribute type.

2. Select whether the attribute is required to be included in all layouts for this integrator.
3. Select whether the attribute can be summed to form a total value.
4. Select whether the attribute is read-only. A read-only attribute is placed in the context section of the desktop document and users cannot change its value.
5. Select whether the attribute is enabled for use in a mapping, to be mapped to a content column.
6. Select whether the interface table column or the interface API parameter to which this attribute corresponds must not be null.
7. Select the validation type for the attribute, either Descriptive Flexfield, Descriptive Flexfield Context, Descriptive Flexfield Segment, Group, Java, Key Flexfield, Key Flexfield Segment, or Table. If you only want to validate the data type, length, and not null requirement for the attribute, then you can leave the validation type blank.
8. If the attribute should be validated as part of an attribute group, select the group name. See: To manage interface attribute groups, page 2-14.
9. If the attribute should use a list of values defined in a component, select the component name. See: Managing Components, page 3-1.
10. Select the type of list of values that the component uses, either None, Pop List for a predefined static set of values, or Standard for a dynamic set of values based on Oracle E-Business Suite data.
11. Optionally enter a prompt to appear above the attribute if it appears in the lines region of a document.

12. Optionally enter hint text to provide users further guidance on the attribute. The hint text appears between the header region and the lines region in the document.
13. Choose Save.

To manage interface attribute groups:

1. The Interfaces: View Groups region displays a list of the interface attribute groups defined for this interface.

Interfaces: View Groups Region

To define a new group, choose Define Group.

Interfaces: Define Group Region

2. In the Interfaces: Define Group region, enter a unique name for the group.
3. Select the name of the attribute to use as the parent attribute for the group. The parent attribute should be a custom attribute that is not uploaded. Instead, it serves as a placeholder for validation for the group.
4. Select the validation type associated with the parent attribute, either Descriptive Flexfield, Group, Java, or Key Flexfield.
5. For descriptive flexfield validation, specify the following validation details.
 - Select the descriptive flexfield to use for validation.
 - Select the interface attribute that corresponds to the context for the descriptive flexfield
 - Enter the validation entity for the group. The default validation entity is

`oracle.apps.bne.integrator.validators.BneDFFValidator.`

- Select the component name that defines the list of values to use for validation.
See: Managing Components, page 3-1.
6. For group validation or Java validation, specify the following validation details.
 - Enter the validation entity for the group.
 - Select the component name that defines the list of values to use for validation.
See: Managing Components, page 3-1.
 7. For key flexfield validation, specify the following validation details.
 - Select the key flexfield to use for validation.
 - Enter the validation entity for the group. The default validation entity is `oracle.apps.bne.integrator.validators.BneKFFValidator.`
 - Select Yes or No to indicate whether the key flexfield segment values should be concatenated.
 - Select the component name that defines the list of values to use for validation.
See: Managing Components, page 3-1.
 8. Select the attributes you want in the Available list and move them to the Selected list.
 9. Choose Apply.
 10. In the Interfaces: View Groups region, to display the attributes that belong to a group, choose Show in the Details column for the group.
 11. To remove an attribute from the group, choose the Ungroup icon for the attribute in the group attributes list.
 12. To add more attributes to the group, choose the Add to Group icon for the group in the list of groups.
 13. After you finish managing interface attribute groups, choose Return to Interfaces.

To define contents:

A *content* is a set of metadata that determines what data the integrator uses to populate the desktop document that it creates. Use the Contents page of the integrator definition wizard to manage and create contents.

- For a reporting-only integrator, you must define at least one SQL query or Java

content to specify the Oracle E-Business Suite data that the integrator downloads into the desktop document.

- For an integrator that can upload data to Oracle E-Business Suite, you can optionally define SQL query or Java contents that download data from Oracle E-Business Suite into the document, or text file contents that populate the document with data from the specified text file. You can also choose not to define any contents to create a blank document. In this case users must enter all data into the document manually.

Contents Page

ORACLE® Desktop Integration Manager

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Integrator Interfaces **Contents** Uploader Importer

Cancel Back Step 3 of 5 Next Submit

List of Contents for Integrator ... Test Integrator

Create Content

Select Content Name	Type	Reporting	Delete
<input type="radio"/> NONE	NONE	N	

Cancel Back Step 3 of 5 Next Submit

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1. The Contents page displays the list of contents defined for the integrator.
 - To update the name of a content, enter the new name in the Content Name field.
 - To delete a content, choose the delete icon for that content.
 - To create a new content, select the Create Content button. The Create Content for Integrator region appears.

Create Content for Integrator Region

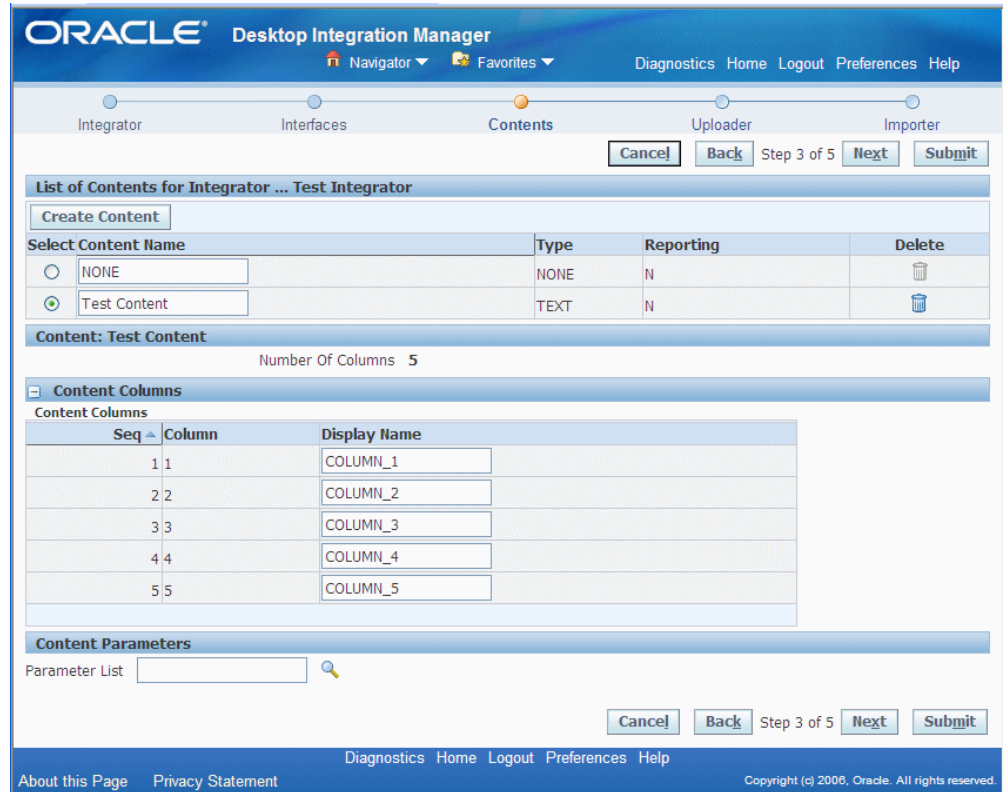
The screenshot shows the Oracle Desktop Integration Manager interface. At the top, there's a blue header with the Oracle logo and the text 'Desktop Integration Manager'. Below this is a navigation bar with icons for Navigator, Favorites, Diagnostics, Home, Logout, Preferences, and Help. A secondary navigation bar contains buttons for Integrator, Interfaces, Contents, Uploader, and Importer. The 'Contents' button is highlighted. Below this, a sub-header reads 'Create Content for Integrator ... Test Integrator'. The main form area contains the following fields and options:

- 'Content Name': A text input field.
- 'Content Type': A dropdown menu currently showing 'Text File'.
- 'Number Of Columns': A text input field.
- 'Reporting Only': A checkbox that is currently unchecked.

At the bottom left of the form are 'Apply' and 'Cancel' buttons. The footer of the window includes links for 'About this Page' and 'Privacy Statement', and a copyright notice: 'Copyright (c) 2006, Oracle. All rights reserved.'

2. In the Create Content for Integrator region, enter the content name.
3. Select the content type, either Java, SQL query, or text file.
 - For a Java content, enter the Java class that returns the Oracle E-Business Suite data you want to download, and the number of arguments for that Java class. Oracle E-Business Suite Desktop Integration Framework creates a content column for each argument. You can include logic in your Java class to perform additional processing on the downloaded data before inserting the data into the desktop document.
 - For a SQL query content, enter in the Query field the query code that selects the Oracle E-Business Suite data you want to download. Choose the Test Query button to validate the query syntax. Oracle E-Business Suite Desktop Integration Framework creates a content column for each column selected in the query.
 - For a text file content, enter the number of columns that the text file contains. Oracle E-Business Suite Desktop Integration Framework creates a content column for each column in the text file.
4. If you want to use this content only for downloading data from Oracle E-Business Suite to the desktop, select the Reporting Only option.
5. Choose Apply.
6. In the Contents page, select a content in the list to display its details including the content columns and parameter list.
7. Expand the Content Columns region to view the columns that were automatically created for the content. You can optionally update the display name for each column.

Contents Page with Content Columns Region



ORACLE Desktop Integration Manager

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Integrator Interfaces **Contents** Uploader Importer

Cancel Back Step 3 of 5 Next Submit

List of Contents for Integrator ... Test Integrator

Create Content

Select Content Name	Type	Reporting	Delete
<input type="radio"/> NONE	NONE	N	
<input checked="" type="radio"/> Test Content	TEXT	N	

Content: Test Content

Number Of Columns 5

Content Columns

Seq	Column	Display Name
1	1	COLUMN_1
2	2	COLUMN_2
3	3	COLUMN_3
4	4	COLUMN_4
5	5	COLUMN_5

Content Parameters

Parameter List

Cancel Back Step 3 of 5 Next Submit

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8. If the content requires additional parameters, select a parameter list in the Content Parameters region. See: Managing Parameters, page 4-1.
9. To proceed to the Uploader page, select Next, or to save this integrator definition without defining an uploader or importer, select Submit.

To define an uploader:

An *uploader* is a set of metadata that determines what options are available to a user in the upload parameters window when the user uploads data from a desktop document to Oracle E-Business Suite. Use the Uploader page of the integrator definition wizard to create and manage the uploader for an integrator.

Note: If you selected the Reporting Only option for this integrator, then you do not need to define an uploader.

1. If an uploader has not yet been defined for the integrator, then the Uploader page displays the Create Uploader List region.

Create Uploader List Region

ORACLE® Desktop Integration Manager

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Integrator Interfaces Contents Uploader Importer

Integrator : Test Integrator

Cancel Back Step 4 of 5 Next Submit

Create Uploader List

* Uploader None

Cancel Back Step 4 of 5 Next Submit

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In the Uploader field, select the method by which to create the uploader.

- None - Select this option if you do not want to use this integrator to upload data from a desktop document to Oracle E-Business Suite. In this case no uploader is created. To proceed to the Importer page, select Next, or to save this integrator definition without defining an importer, select Submit.
- From Template - Use the standard template provided by Oracle E-Business Suite Desktop Integration Framework as the basis for the uploader definition. After selecting this option, choose the Create button to create the uploader.
- Copy From Existing Definition - Use the definition of an existing uploader from another integrator as the basis for the uploader definition. After selecting this option, select the existing uploader definition that you want to copy. Then choose the Create button to create the uploader.

Note: You can copy an uploader definition only from another integrator that belongs to the same application as the integrator you are defining.

Uploader Page

ORACLE Desktop Integration Manager

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Integrator Interfaces Contents **Uploader** Importer

Information
Uploader List has been created successfully.

Integrator : Test Integrator

Cancel Back Step 4 of 5 Next Submit

Uploader

Uploader Name: Test Integrator - Uploader

Delete Uploader Preview...

Uploader Parameters

Title: Upload Page
Header: Upload Parameters

Add Parameter Reorder

Display Name	Displayed	Enabled	Required	Update	Delete
rne:rows	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
rne:validation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
rne:import	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

Cancel Back Step 4 of 5 Next Submit

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- In the Uploader page, specify the display name of the uploader. The default name is `<Integrator Name> - Uploader`. You can optionally enter a different name.
- To delete the existing uploader definition for the integrator, choose the Delete Uploader button. The Uploader page then displays the Create Uploader List region to let you either create a new uploader or proceed without defining an uploader.
- To preview how the upload parameters window will be displayed to users based on the current uploader definition, choose the Preview button.
- In the Uploader Parameters region, specify the title that should appear in the browser title bar of the upload parameters window. The default title is Upload Page. You can optionally enter a different title.
- Specify the header that should appear within the upload parameters window. The default header is Upload Parameters. You can optionally enter a different header.
- If you created this uploader using the standard template, then Oracle E-Business Suite Desktop Integration Framework automatically creates the following parameters:

- Rows to Upload (`bne:rows`) - Determines whether to upload all rows in the spreadsheet, or only those rows marked with an upload flag. Oracle Web Applications Desktop Integrator marks all changed rows with an upload flag.
- Validate Before Upload (`bne:validation`) - Determines whether to validate data before uploading the data to Oracle E-Business Suite.
- Automatically Submit Import (`bne:import`) - Determines whether to submit an import process to move the uploaded data from Oracle E-Business Suite interface tables to base application tables automatically after the upload. If you include this parameter, then you should define an importer for this integrator to specify the import process that will be submitted.

If you created this uploader as a copy of an existing uploader definition, then Oracle E-Business Suite Desktop Integration Framework automatically creates copies of all the parameters defined for the existing uploader.

You can update or delete any of the automatically created parameters or define additional parameters as needed.

8. You can update some parameter details directly in the Uploader Parameters region.
 - Enter the display name for the parameter.
 - Select whether the parameter is displayed in the upload parameters window.
 - Select whether the parameter is enabled for users to enter a value in the upload parameters window.
 - Select whether users are required to enter a value for the parameter in the upload parameters window.

You can also choose the update icon for a parameter to update additional parameter details. See: To define an upload parameter, page 2-23.

9. To delete a parameter, choose the delete icon for that parameter.
10. To define a new upload parameter, choose the Add Parameter button. See: To define an upload parameter, page 2-23.
11. To change the order in which the parameters appear in the upload parameters window, choose the Reorder button. Select one or more parameters in the list, and use the arrow buttons to move those parameters to the desired position. Then choose Apply.

Note: You can only reorder parameters when the list contains two or more parameters.

12. To proceed to the Importer page, select Next, or to save this integrator definition without defining an importer, select Submit.

To define an upload parameter:

Uploader: Define Upload Parameter Page

1. In the Uploader: Define Upload Parameter page, optionally select an existing parameter definition to copy. The remaining fields in the page then display the values copied from that parameter. You can update these values as needed.
2. Enter a unique internal name for the parameter.
3. Enter the display name for the parameter.
4. Select the data type of the parameter: String, Number, Date, Boolean, or Key Flexfield.
5. Select the category to which the parameter belongs.
 - Miscellaneous
 - Position
 - Appearance

- Behavior
 - Data
 - Field
6. Optionally enter a default value of the appropriate data type for the parameter.
 - For Boolean parameter, select either Yes or No as the default value.
 - For a key flexfield parameter, select the flexfield structure. The Default Value region displays the ID of the application to which the flexfield belongs and the numerical ID for the flexfield.
 7. If you entered a default value, enter a description for that value.
 8. Select the validation type for the parameter: None, Value Set, Fnd Lookup, or Bne Query.
 9. Depending on the selected validation type, enter the value set, lookup type, or SQL query against which you want to validate the parameter value.

For a SQL query, select whether you want to use a simple or complex query.

- For a simple query, you can enter the following common query details and let Oracle E-Business Suite Desktop Integration Framework generate the complete query syntax for you.
 - A list of one or more tables from which to select data, separated by commas
 - The ID column to select, and an alias for that column
 - The meaning column to select, and an alias for that column
 - The description column to select, and an alias for that column
 - A list of additional columns to select
 - A WHERE clause that specifies the conditions defining the data to select
 - A list of the columns by which the query results should be ordered
- For a complex query, you must enter the complete query syntax yourself.

After entering the query, choose the Validate Query button to validate the query syntax.

10. Select whether the parameter is displayed in the upload parameters window.

11. Select whether the parameter is enabled for users to enter a value in the upload parameters window.
12. Select whether users are required to enter a value for the parameter in the upload parameters window.
13. Optionally enter a prompt to appear to the left of the parameter.
14. Optionally enter a prompt to appear above the parameter.
15. Optionally enter a hint to display to provide users further guidance on the parameter.
16. Select the display type for the parameter.
 - For a string parameter, you can select Check Box, Radio Button, List Box, Text Area, or Password.
 - For a number or date parameter, you can select Radio Button, List Box, Text Area, or Password.
 - For a Boolean parameter, you can select Check Box, Radio Button, List Box, or Text Area.
 - A key flexfield parameter must use the Text Area display type.
17. If you selected the display type Radio Button, select whether the radio buttons should be displayed in a vertical or horizontal style.
18. Enter the maximum size for the parameter value.
19. Enter the display size for the parameter value. The display size must be equal to or less than the maximum size.
20. Choose Apply.

To define an importer:

An *importer* is a set of metadata that determines how Oracle Web Applications Desktop Integrator moves uploaded data from Oracle E-Business Suite interface tables to base application tables. Use the Importer page of the integrator definition wizard to define the importer for an integrator.

Ensure that you define the uploader for an integrator before defining an importer. Additionally, ensure that you define the Automatically Submit Import (`bne:import`) upload parameter within the uploader to enable the import process to be submitted automatically after the upload.

Note: If you selected the Reporting Only option for this integrator, then you do not need to define an uploader.

Importer Page: Importer Type

1. In the Importer page, select the importer type.

- Asynchronous concurrent request - Oracle Web Applications Desktop Integrator submits the specified concurrent program after completing the upload and returns the concurrent request ID to the user, but does not wait for the import program to complete. This importer type reduces user wait time by deferring the import process, and gives system administrators more flexibility in load balancing the resources involved in importing data. However, users may need to verify later that the import completed successfully.

If you select this importer type, it is recommended that you define pre-import rules to validate the data at the time of upload. If the pre-validation fails, then Oracle Web Applications Desktop Integrator does not upload the data to the interface tables or invoke the import program, but returns an error message to the user instead.

- Synchronous concurrent request - Oracle Web Applications Desktop Integrator submits the specified concurrent program after completing the upload, waits for the program to complete, and then returns the results to the user. This importer type gives users immediate feedback about the success of the import, but can increase the load on resources as well as user wait time.
- PL/SQL API - Oracle Web Applications Desktop Integrator calls the specified API after completing the upload, waits for the API processing to complete, and then returns the results to the user. This importer type gives users immediate feedback about the success of the import and partly reduces user wait time by bypassing the concurrent processing queue. However, it can increase the load on resources.

Importer Page

ORACLE® Desktop Integration Manager

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Integrator Interfaces Contents Uploader **Importer**

Integrator : Test Integrator

Cancel Back Step 5 of 5 Submit

Define Importer Rules

Importer Type: Synchronous concurrent request

* Importer Name:

Pre-Import Rules

Add Rule

No.	Rule	Type	Description	Update	Delete
No Pre-Import Rules Defined					

Importer Rules

Rule	Define/Update	Delete
Group Definition	+	✖
* Document Row : Interface Attribute Mapping	+	✖
* Concurrent Program Request Submission	+	✖
* Error Row Definition	+	✖
* Error Message Lookup	+	✖
Success Message Definition	+	✖
Cleanup	+	✖

Cancel Back Step 5 of 5 Submit

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2. Enter a unique name for the importer.
3. If you want to perform validation or other processing before the import process, choose the Add Rule button in the Pre-Import Rules region. See: To define a pre-import rule, page 2-28.
4. To update a pre-import rule, choose the update icon for that rule. See: To define a pre-import rule, page 2-28.
5. To delete a rule, choose the delete icon for that rule.
6. The Importer Rules region displays a list of possible rule types for the import process itself, according to the importer type. An asterisk marks required rule types.
 - To define an importer rule, choose the define icon or update icon for that rule type.
 - Group Definition - Identifies records in the interface table that should be imported together as a group. All other importer rules, except group definition rules and document row - interface attribute mapping rules, are

repeated for each group of records in the interface table. See: To define a group definition importer rule, page 2-31.

- Document Row: Interface Attribute Mapping - Maps rows in the desktop spreadsheet to records in the interface table. This rule type is required for a synchronous concurrent request importer and optional for other importer types. See: To define a document row - interface attribute mapping importer rule, page 2-32.
 - Concurrent Program Request Submission - Specifies the concurrent program to perform the import. This rule type is available and required only for an asynchronous or synchronous concurrent request importer. See: To define a concurrent program request submission importer rule, page 2-33.
 - PL/SQL API call - Specifies the PL/SQL API to perform the import. This rule type is available and required only for a PL/SQL API importer. See: To define a PL/SQL API call importer rule, page 2-34.
 - Error Row Definition - Identifies records that were not imported successfully. This rule type is available and required only for a synchronous concurrent request or a PL/SQL API importer. See: To define an error row definition importer rule, page 2-35.
 - Error Message Lookup - Retrieves the error message to return to the user for records that were not imported successfully. This rule type is available and required only for a synchronous concurrent request or a PL/SQL API importer. See: To define an error message lookup importer rule, page 2-37.
 - Success Message Definition - Specifies a message to display to the user when the import process is submitted successfully. See: To define a success message definition importer rule, page 2-38.
 - Cleanup - Specifies cleanup processing to perform if errors occurred during any of the previous importer rules. See: To define a cleanup importer rule, page 2-39.
- To delete a rule definition, choose the delete icon for that rule type. The rule type still appears in the list to let you create a new rule definition later if you choose.

7. To save the integrator definition, select Submit.

To define a pre-import rule:

Use pre-import rules to specify validation or other processing that you want to perform

on the data being uploaded before importing the data into application base tables. A pre-import rule can perform a SQL query, call a PL/SQL function or procedure, or retrieve the next value of a database sequence.

Importer Page: Pre-Import Rule

The screenshot shows the 'Importer: SQL Query' page in the Oracle Desktop Integration Manager. The page is titled 'Importer: SQL Query' and is part of a 5-step process (Step 5 of 5). The main form area contains the following fields and controls:

- Rule Name:** A text input field.
- Description:** A text input field with a vertical scrollbar.
- Type:** A dropdown menu currently set to 'SQL Query'.
- SQL Query:** A large text input area with a vertical scrollbar.
- Test Query:** A button to validate the query syntax.
- Apply:** A button to save the rule.
- Cancel:** A button to cancel the operation.

The top navigation bar includes 'Navigator', 'Favorites', 'Diagnostics', 'Home', 'Logout', 'Preferences', and 'Help'. The bottom navigation bar includes 'About this Page', 'Privacy Statement', and 'Copyright (c) 2006, Oracle. All rights reserved.'

1. Enter a unique name for the pre-import rule.
2. Enter a description for the rule.
3. Select the rule type: SQL Query, PL/SQL API Function, PL/SQL API Procedure, or Sequence.
4. For a SQL query rule, enter the query. Choose the Test Query button to validate the query syntax.
5. For a PL/SQL function rule, enter the package name and function name, and specify whether the API returns an error message or an FND message code if it encounters an error.
6. For a PL/SQL procedure rule, enter the package name and procedure name, and specify whether the API returns an error message or an FND message code if it encounters an error.
7. For a sequence rule, enter the sequence name. You can optionally also enter a unique reference name by which subsequent rules can refer to this sequence.
8. For a SQL query, PL/SQL function, or PL/SQL procedure rule, choose Apply. Oracle E-Business Suite Desktop Integration Framework displays additional details

depending on the rule type.

9. For a SQL query rule, the page displays a list of the columns selected by the query. You can optionally enter a unique reference name for each column by which subsequent rules can refer to the column.

The page also displays a list of the parameters used in the query.

- You can optionally enter a unique reference name by which subsequent rules can refer to the parameter.
 - Select the data type for the parameter.
 - Specify the source from which the parameter value will be obtained: Environment Variables, Import, or Upload Parameters.
 - Specify the value based on the selected source. If the source is environment variables, enter the variable to use for the value, such as User ID, Application, Responsibility ID, or Language. If the source is Import, enter the interface attribute or reference parameter to use for the value. If the source is upload parameters, enter the upload parameter to use for the value.
10. For a PL/SQL function rule, if the function returns more details about any error that it encounters, select the Returns Error Information option.
 11. For a PL/SQL function or procedure rule, specify whether the API returns an error message or an FND message code if it encounters an error.
 12. For a PL/SQL function or procedure rule, the page displays a list of the parameters for the function or procedure.
 - If the parameter is used to retrieve an error message, select the Error Message check box.
 - Optionally enter a default value for the parameter.
 - Specify the source from which the parameter value will be obtained: Environment Variables, Import, or Upload Parameters.
 - Specify the value based on the selected source. If the source is environment variables, enter the variable to use for the value, such as User ID, Application, Responsibility ID, or Language. If the source is Import, enter the interface attribute or reference parameter to use for the value. If the source is upload parameters, enter the upload parameter to use for the value.
 - Optionally specify a parameter list to use for key-value lookups.
 - Optionally enter a SQL clause to modify the value, such as `TO_CHAR()`.

13. Choose Apply.

Note: If you no longer require this rule definition, you can choose the Delete button to remove it.

To define a group definition importer rule:

Use a group definition rule to identify records in the interface table that should be imported together as a group. All other importer rules, except group definition rules and document row - interface attribute mapping rules, are repeated for each group of records in the interface table. An asynchronous or synchronous concurrent request importer submits a separate concurrent request for each record group

To identify the records that form a group, specify one or more interface attributes that together serve as a unique key for the group. All records in the interface table that have the same values in those interface attributes are treated as part of the group.

Importer Page: Group Definition Rule

The screenshot shows the Oracle Desktop Integration Manager interface. The top navigation bar includes 'ORACLE Desktop Integration Manager' and links for 'Navigator', 'Favorites', 'Diagnostics', 'Home', 'Logout', 'Preferences', and 'Help'. Below this is a breadcrumb trail: 'Integrator > Interfaces > Contents > Uploader > Importer'. The main content area is titled 'Importer: Group Definition'. It features an 'Add Row' button and a table with the following structure:

No.	Interface Attribute	Delete
1	<input type="text"/>	

Below the table are 'Apply', 'Delete', and 'Cancel' buttons. At the bottom right, there are 'Cancel', 'Back', 'Step 5 of 5', and 'Submit' buttons. The footer contains 'About this Page', 'Privacy Statement', and 'Copyright (c) 2006, Oracle. All rights reserved.'

1. Choose the Add Row button.
2. Select an interface attribute to identify the records in the group.
3. Optionally repeat steps 1 and 2 to add further interface attributes to identify the records in the group. Each interface attribute you add narrows the group definition.
To remove an interface attribute from the group definition, choose the delete icon for that attribute.
4. Choose Apply.

Note: If you no longer require this rule definition, you can choose the Delete button to remove it.

To define a document row: interface attribute mapping importer rule

Use a document row: interface attribute mapping rule to map rows in the desktop spreadsheet to records in the interface table. To define the mapping, specify one or more interface attributes that together serve as a unique key to match each spreadsheet row with the corresponding interface table record. In most cases the interface attributes that you specify should be the columns that make up the primary key of the interface table.

You can use this mapping to return individual error messages for any records that fail during import.

Note: If there are no columns in the interface table that can identify a one-to-one mapping between the spreadsheet rows and the interface table records, then you cannot report individual error messages for any failed records, only a general error message for the import process as a whole.

Importer Page: Document Row: Interface Attribute Mapping Rule

The screenshot displays the Oracle Desktop Integration Manager interface. The top navigation bar includes links for Navigator, Favorites, Diagnostics, Home, Logout, Preferences, and Help. Below this, a breadcrumb trail shows the path: Integrator > Interfaces > Contents > Uploader > Importer. The main content area is titled 'Importer: Document Row Interface Attribute Mapping'. It features an 'Add Row' button and a table with columns 'No.', 'Interface Attribute', and 'Delete'. The table contains one row with the number '1' in the 'No.' column and a search icon in the 'Interface Attribute' column. Below the table are 'Apply', 'Delete', and 'Cancel' buttons. The bottom of the page includes a footer with 'About this Page', 'Privacy Statement', and 'Copyright (c) 2006, Oracle. All rights reserved.'

1. Choose the Add Row button.
2. Select an interface attribute by which to identify a record.
3. Repeat steps 1 and 2 to add further interface attributes as needed to identify a record uniquely.

To remove an interface attribute from the unique key, choose the delete icon for that attribute.

4. Choose Apply.

Note: If you no longer require this rule definition, you can choose the Delete button to remove it.

To define a concurrent program request submission importer rule:

Use a concurrent program request submission rule to specify what concurrent program to submit to perform the import, as well as how to obtain the parameter values for the program.

Importer Page: Concurrent Program Request Submission Rule

The screenshot shows the Oracle Desktop Integration Manager interface. The top navigation bar includes the Oracle logo, 'Desktop Integration Manager', and links for Navigator, Favorites, Diagnostics, Home, Logout, Preferences, and Help. Below this is a breadcrumb trail: Integrator > Interfaces > Contents > Uploader > Importer. The main content area is titled 'Importer : Test Integrator' and shows 'Step 5 of 5'. It contains a section for 'Importer: Concurrent Program Request Submission' with a 'Program' text box and a search icon. Below the text box are 'Apply' and 'Cancel' buttons. At the bottom of the page, there is a footer with 'About this Page', 'Privacy Statement', and 'Copyright (c) 2006, Oracle. All rights reserved.'

1. Select the concurrent program to perform the import.
2. Choose Apply.
3. The page displays a list of the parameters for the program.
 - If the parameter is used to retrieve an error message, select the Error Message check box.
 - Optionally enter a default value for the parameter.
 - Specify the source from which the parameter value will be obtained: Environment Variables, Import, or Upload Parameters.
 - Specify the value based on the selected source. If the source is environment variables, enter the variable to use for the value, such as User ID, Application,

Responsibility ID, or Language. If the source is Import, enter the interface attribute or reference parameter to use for the value. If the source is upload parameters, enter the upload parameter to use for the value.

- Optionally specify a parameter list to use for key-value lookups.
- Optionally enter a SQL clause to modify the value, such as `TO_CHAR()`.

4. Choose Apply.

Note: If you no longer require this rule definition, you can choose the Delete button to remove it.

To define a PL/SQL API call importer rule:

Use a PL/SQL API call rule to specify what PL/SQL API to call to perform the import, as well as how to obtain the parameter values for the API.

Importer Page: PL/SQL API Call Rule

The screenshot shows the Oracle Desktop Integration Manager interface. At the top, there's a navigation bar with 'ORACLE Desktop Integration Manager' and links for Navigator, Favorites, Diagnostics, Home, Logout, Preferences, and Help. Below this is a breadcrumb trail: Integrator > Interfaces > Contents > Uploader > Importer. The 'Importer' tab is selected. The main content area is titled 'Importer: Concurrent Program Request Submission'. It contains a form with the following fields: 'API Type' (a dropdown menu set to 'PL/SQL Function'), 'Package Name' (a text input field), 'Procedure/Function Name' (a text input field), and 'API Returns' (a dropdown menu set to 'Error Message'). There are 'Apply' and 'Cancel' buttons at the bottom left of the form. At the bottom right of the page, there are 'Cancel', 'Back', 'Step 5 of 5', and 'Submit' buttons. The footer includes 'About this Page', 'Privacy Statement', 'Diagnostics Home Logout Preferences Help', and 'Copyright (c) 2006, Oracle. All rights reserved.'

1. Select the API type, either PL/SQL Function or PL/SQL Procedure.
2. For a PL/SQL function, enter the package name and function name, and specify whether the API returns an error message or an FND message code if it encounters an error.
3. For a PL/SQL procedure, enter the package name and procedure name, and specify whether the API returns an error message or an FND message code if it encounters an error.

4. Choose Apply. Oracle E-Business Suite Desktop Integration Framework displays additional details for the API.
5. For a PL/SQL function, if the function returns more details about any error that it encounters, select the Returns Error Information option.
6. Specify whether the API returns an error message or an FND message code if it encounters an error.
7. The page displays a list of the parameters for the function or procedure.
 - If the parameter is used to retrieve an error message, select the Error Message check box.
 - Optionally enter a default value for the parameter.
 - Specify the source from which the parameter value will be obtained: Environment Variables, Import, or Upload Parameters.
 - Specify the value based on the selected source. If the source is environment variables, enter the variable to use for the value, such as User ID, Application, Responsibility ID, or Language. If the source is Import, enter the interface attribute or reference parameter to use for the value. If the source is upload parameters, enter the upload parameter to use for the value.
 - Optionally specify a parameter list to use for key-value lookups.
 - Optionally enter a SQL clause to modify the value, such as `TO_CHAR()`.
8. Choose Apply.

Note: If you no longer require this rule definition, you can choose the Delete button to remove it.

To define an error row definition importer rule:

Use an error row definition rule to identify records that were not imported successfully. To identify the failed records, specify a SQL query that selects from the interface table. It is recommended to select all columns in the interface table by beginning the query with `SELECT *` to ensure that all necessary values are retrieved.

Importer Page: Error Row Definition Rule

1. Enter the SQL query to identify failed records in the interface table. Choose the Test Query button to validate the query syntax.
2. Choose Apply.

3. Oracle E-Business Suite Desktop Integration Framework displays a list of the columns selected by the query. You can optionally enter a unique reference name for each column by which subsequent rules can refer to the column.

The page also displays a list of the parameters used in the query.

- You can optionally enter a unique reference name for the parameter by which subsequent rules can refer to the parameter.
- Select the data type for the parameter.
- Specify the source from which the parameter value will be obtained: Environment Variables, Import, or Upload Parameters.
- Specify the value based on the selected source. If the source is environment variables, enter the variable to use for the value, such as User ID, Application, Responsibility ID, or Language. If the source is Import, enter the interface attribute or reference parameter to use for the value. If the source is upload parameters, enter the upload parameter to use for the value.

4. Choose Apply.

Note: If you no longer require this rule definition, you can choose

the Delete button to remove it.

To define an error message lookup importer rule:

Use an error message lookup rule to retrieve the error message to return to the user for records that were not imported successfully. Specify a SQL query that selects only one column, which should contain the error message. Oracle Web Applications Desktop Integrator runs the SQL query for each failed record in the interface table. You can reference the unique key defined in the document row - interface attribute mapping rule to match the individual failed records, with the spreadsheet rows, and use any error codes in the status column in the interface table for each record to retrieve the appropriate error message.

Importer Page: Error Message Lookup Rule

1. Enter the SQL query to retrieve the error message. Choose the Test Query button to validate the query syntax.
2. Choose Apply.
3. Oracle E-Business Suite Desktop Integration Framework displays a list of the parameters used in the query.
 - You can optionally enter a unique reference name for the parameter by which subsequent rules can refer to the parameter.
 - Select the data type for the parameter.
 - Specify the source from which the parameter value will be obtained:

Environment Variables, Import, or Upload Parameters.

- Specify the value based on the selected source. If the source is environment variables, enter the variable to use for the value, such as User ID, Application, Responsibility ID, or Language. If the source is Import, enter the interface attribute or reference parameter to use for the value. If the source is upload parameters, enter the upload parameter to use for the value.

4. Choose Apply.

Note: If you no longer require this rule definition, you can choose the Delete button to remove it.

To define a success message definition importer rule:

Use a success message definition rule to specify a message to display to the user when the import process is submitted successfully. For an asynchronous concurrent request importer, Oracle Web Applications Desktop Integrator returns the success message after the import program is submitted, without waiting for the program to complete. For a synchronous concurrent request or a PL/SQL API importer, Oracle Web Applications Desktop Integrator returns the success message only after the import process completes and all records have been imported without error.

Importer Page: Success Message Definition Rule

The screenshot shows the Oracle Desktop Integration Manager web interface. The top navigation bar includes the Oracle logo and links for Navigator, Favorites, Diagnostics, Home, Logout, Preferences, and Help. Below this, there are tabs for Integrator, Interfaces, Contents, Uploader, and Importer. The 'Importer' tab is selected, and the page title is 'Importer: Test Integrator'. The main content area is titled 'Importer: Success Message Definition' and contains a text input field for 'Success Message' with the value 'Journal Import Request ID \$import\$.requestid'. Below the input field are buttons for 'Apply', 'Delete', and 'Cancel'. At the bottom of the page, there are buttons for 'Cancel', 'Back', 'Step 5 of 5', and 'Submit'.

1. Enter the text of the success message. The default message is Journal Import Request ID \$import\$.requestid.
2. Choose Apply.

Note: If you no longer require this rule definition, you can choose the Delete button to remove it.

To define a cleanup importer rule:

Use a cleanup rule to specify cleanup processing to perform if errors occurred during any of the previous importer rules.

Importer Page: Cleanup Rule

ORACLE® Desktop Integration Manager

Navigator Favorites Diagnostics Home Logout Preferences Help

Integrator Interfaces Contents Uploader Importer

Integrator : Test Integrator

Cancel Back Step 5 of 5 Submit

Importer: Cleanup

Execute SQL Query

SQL Query

Test Query

Apply Cancel

Cancel Back Step 5 of 5 Submit

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1. Select the type of cleanup processing to execute: SQL Query, PL/SQL Function, or PL/SQL Procedure.
2. For a SQL query, enter the query. Choose the Test Query button to validate the query syntax.
3. For a PL/SQL function, enter the package name and function name, and specify whether the API returns an error message or an FND message code if it encounters an error..
4. For a PL/SQL procedure, enter the package name and procedure name, and specify whether the API returns an error message or an FND message code if it encounters an error..
5. Choose Apply. Oracle E-Business Suite Desktop Integration Framework displays additional details depending on the processing type.
6. For a SQL query, the page displays a list of the columns selected by the query. You can optionally enter a unique reference name for each column by which subsequent

rules can refer to the column.

The page also displays a list of the parameters used in the query.

- You can optionally enter a unique reference name for the parameter by which subsequent rules can refer to the parameter.
 - Select the data type for the parameter.
 - Specify the source from which the parameter value will be obtained: Environment Variables, Import, or Upload Parameters.
 - Specify the value based on the selected source. If the source is environment variables, enter the variable to use for the value, such as User ID, Application, Responsibility ID, or Language. If the source is Import, enter the interface attribute or reference parameter to use for the value. If the source is upload parameters, enter the upload parameter to use for the value.
7. For a PL/SQL function, if the function returns more details about any error that it encounters, select the Returns Error Information option.
 8. For a PL/SQL function or procedure, specify whether the API returns an error message or an FND message code if it encounters an error.
 9. For a PL/SQL function or procedure, the page displays a list of the parameters for the function or procedure.
 - If the parameter is used to retrieve an error message, select the Error Message check box.
 - Optionally enter a default value for the parameter.
 - Specify the source from which the parameter value will be obtained: Environment Variables, Import, or Upload Parameters.
 - Specify the value based on the selected source. If the source is environment variables, enter the variable to use for the value, such as User ID, Application, Responsibility ID, or Language. If the source is Import, enter the interface attribute or reference parameter to use for the value. If the source is upload parameters, enter the upload parameter to use for the value.
 - Optionally specify a parameter list to use for key-value lookups.
 - Optionally enter a SQL clause to modify the value, such as `TO_CHAR()`.
 10. Choose Apply.

Note: If you no longer require this rule definition, you can choose the Delete button to remove it.

Managing Components

This chapter covers the following topics:

- Managing Components
- Defining Components

Managing Components

A *component* is a set of metadata that provides a list of values for a field in a desktop document. You can assign a component to an interface attribute to use the list of values defined in the component to validate the value in the document field corresponding to that interface attribute. In this way you can enforce your Oracle E-Business Suite application's business rules for the field values within the desktop document. Use the Components List page to view and manage the components defined for your Oracle E-Business Suite installation.

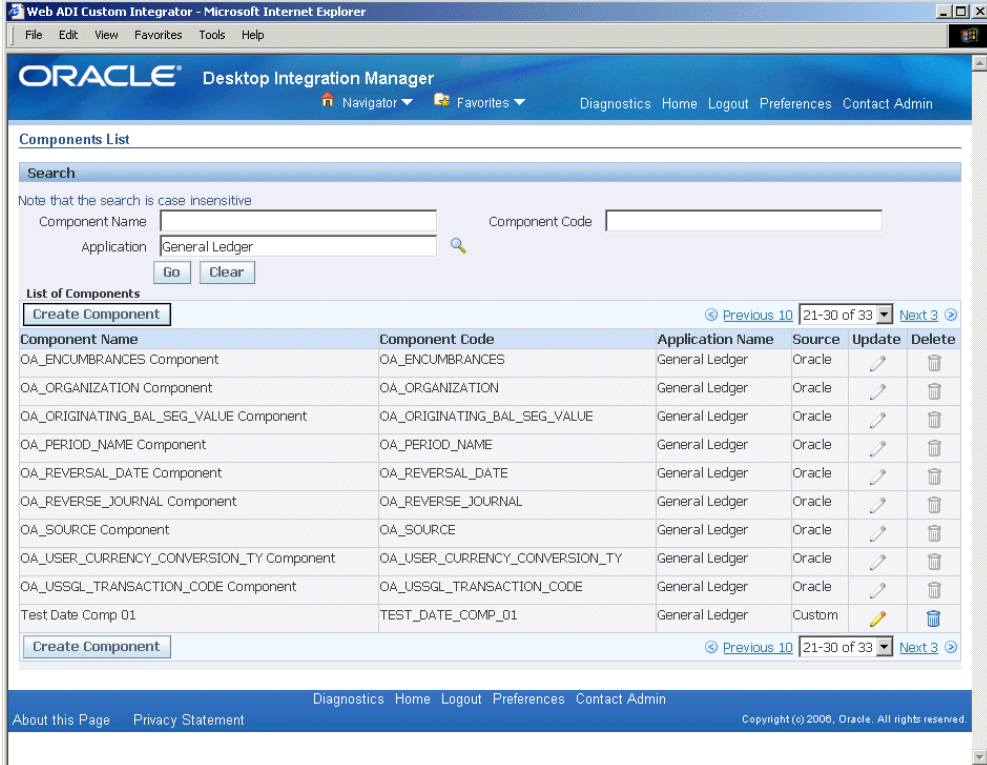
To manage components:

1. Navigate to the Components List page from the Oracle E-Business Suite Navigator by choosing either Desktop Integration Manager: Manage Components or a custom responsibility and menu path specified by your system administrator.
2. Search for the components you want to display. You can enter the following search criteria:
 - Component Name - Enter the display name of the component. You can enter a partial value to search for components whose names contain that value. This field is case-insensitive.
 - Component Code - Enter the unique internal code for the component. You can enter a partial value to search for components whose codes contain that value. This field is case-insensitive.

- Application - Select the application that owns the component.

To perform a search, you must enter a value that does not begin with a percent sign (%) or underscore (_) for at least one search option.

Components List Page



Components List

Search

Note that the search is case insensitive

Component Name Component Code

Application

List of Components

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Component Name	Component Code	Application Name	Source	Update	Delete
OA_ENCUMBRANCES Component	OA_ENCUMBRANCES	General Ledger	Oracle		
OA_ORGANIZATION Component	OA_ORGANIZATION	General Ledger	Oracle		
OA_ORIGINATING_BAL_SEG_VALUE Component	OA_ORIGINATING_BAL_SEG_VALUE	General Ledger	Oracle		
OA_PERIOD_NAME Component	OA_PERIOD_NAME	General Ledger	Oracle		
OA_REVERSAL_DATE Component	OA_REVERSAL_DATE	General Ledger	Oracle		
OA_REVERSE_JOURNAL Component	OA_REVERSE_JOURNAL	General Ledger	Oracle		
OA_SOURCE Component	OA_SOURCE	General Ledger	Oracle		
OA_USER_CURRENCY_CONVERSION_TY Component	OA_USER_CURRENCY_CONVERSION_TY	General Ledger	Oracle		
OA_USSGL_TRANSACTION_CODE Component	OA_USSGL_TRANSACTION_CODE	General Ledger	Oracle		
Test Date Comp 01	TEST_DATE_COMP_01	General Ledger	Custom		

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3. To review a component definition or to update the parameter values for a calendar, Java-validated, or table-validated component, choose the update icon for that component. See: Defining Components, page 3-3.

Note: You can only update custom components.

4. To delete a component, choose the delete icon for that component.

Note: You can only delete custom components.

5. To define a new component, select the Create Component button. See: Defining Components, page 3-3.

Defining Components

Use the Component Definition page to create a new component or to update an existing component.

Note: You can only update custom components.

To define a component:

1. Navigate to the Component Definition page by choosing the Create Component button or the update icon in the Components List page.

If you are updating an existing component, then the component properties are populated with previously defined information for the selected component.

Note: To preserve consistency, you cannot update the basic properties of an existing component. You can only update the values for the component parameters.

Component Definition Page

The screenshot shows a web browser window titled "Component Definition - Microsoft Internet Explorer". The page header includes the Oracle logo and "Desktop Integration Manager". Navigation links include "Navigator", "Favorites", "Diagnostics", "Home", "Logout", "Preferences", "Admin", "Contact", and "Admin". The main content area is titled "Component Definition" and contains four required fields: "Display Name", "Internal Name", "Application", and "Component Type". The "Internal Name" field has a tooltip that reads: "Internal Name should contain only uppercase characters 'A-Z', numbers '0-9' and underscore '_'". There are "Apply" and "Cancel" buttons at the bottom right of the form area. The footer includes "About this Page", "Privacy Statement", and "Copyright (c) 2006, Oracle. All rights reserved."

2. Enter the display name of the component.
3. Enter a unique internal name, or component code, for the component. The internal name can include only the following characters:
 - Uppercase letters from A through Z

- Numerals from 0 through 9
 - The underscore character (`_`)
4. Select the application that owns the integrator.
 5. Select the component type.
 - DATE - A calendar component.
For a calendar component, the page displays the predefined Java class `oracle.apps.bne.integrator.component.BneCalendarComponent` as the component entity.
 - FLEX - A flexfield component.
For a flexfield component, select the flexfield parameter list.
 - LOV - JAVA - A Java-validated component.
For a Java-validated component, enter the fully qualified class name of the Java class to use as the component entity.
 - LOV - TABLE - A table-validated component.
For a table-validated component, the page displays the predefined Java class `BneOAValueSet` as the component entity.
 6. Choose Apply.
 7. For a calendar, Java-validated, or table-validated component, Oracle E-Business Suite Desktop Integration Framework displays a list of the parameters for the component. Specify values for the component parameters.
 - For a calendar component, specify the following parameters.
 - table-columns - A list of the columns to display in the window, separated by commas.
 - table-select-column - The name of the interface column that the date picker updates in the desktop document.
 - window-caption - The caption to display in the date picker window.
 - window-height - The height of the date picker window. The default value is 500.
 - window-width - The width of the date picker window. The default value is 400.

Component Definition Page with List of Component Parameters for a Calendar Component

The screenshot shows the Oracle Desktop Integration Manager interface. At the top is a blue header with the Oracle logo and the text "Desktop Integration Manager". Below the header are navigation links: "Navigator", "Favorites", "Diagnostics", "Home", "Logout", "Preferences", and "Help".

A confirmation message at the top left states: "Confirmation: Component created successfully." Below this is the "Component Definition" section. It contains the following fields:

- Display Name: Test Date Comp 01
- Internal Name: TEST_DATE_COMP_01 (with a note: "Internal Name should contain only uppercase characters 'A-Z', numbers '0-9' and underscore '_'")
- Application: General Ledger
- Component Type: DATE
- Component Entity: oracle.apps.bne.integrator.component.BneCalendarComponent

Below these fields is a table titled "List of component parameters". The table has two columns: "Parameter Name" and "Parameter Value".

Parameter Name	Parameter Value
table-columns	<Table Columns>
table-select-column	<Table Select Columns>
window-caption	
window-height	500
window-width	400

At the bottom right of the form are "Apply" and "Cancel" buttons. The footer of the page contains "About this Page", "Privacy Statement", "Diagnostics", "Home", "Logout", "Preferences", "Help", and "Copyright (c) 2006, Oracle. All rights reserved."

- For a Java-validated component, specify the following parameters.
 - table-column-sort - The sort order for the table in the list of values window. The default value is ASCENDING.
 - table-columns - A list of the columns to display in the list of values window, separated by commas.
 - table-headers - A list of the column headers for the columns that will appear in the list of values window, separated by commas.
 - window-caption - The caption to display in the list of values window.
 - window-height - The height of the list of values window. The default value is 500.
 - window-width - The width of the list of values window. The default value is 400.

Component Definition Page with List of Component Parameters for a Java-Validated Component

The screenshot shows the 'Component Definition' page in the Oracle Desktop Integration Manager. The page is titled 'Component Definition' and includes a navigation bar with links for Navigator, Favorites, Diagnostics, Home, Logout, Preferences, and Admin. The main content area displays the component details for 'Test Java Comp 01'.

Component Details:

- Display Name: Test Java Comp 01
- Internal Name: TEST_JAVA_COMP_01
- Application: General Ledger
- Component Type: LOV - JAVA
- Component Entity: Test

List of component parameters:

Parameter Name	Parameter Value
table-column-sort	ASCENDING
table-columns	<Table Columns>
table-headers	
window-caption	
window-height	500
window-width	400

The page includes 'Apply' and 'Cancel' buttons at the top right and bottom right. The footer contains links for 'About this Page' and 'Privacy Statement', and a copyright notice for Oracle 2006.

- For a table-validated component, specify the following parameters.
 - table-column-alias - If the interface column that the list of values updates is not among the columns displayed in the list of values window, then enter the interface column in this parameter to create an alias for the displayed column that you want to insert into the desktop document.
 - table-column-sort - The sort order for the table in the list of values window. The default value is ASCENDING.
 - table-columns - A list of the columns to display in the list of values window, separated by commas.
 - table-headers - A list of the column headers for the columns that will appear in the list of values window, separated by commas.
 - table-select-column - The name of the interface column that the list of values updates in the desktop document.
 - window-caption - The caption to display in the list of values window.
 - window-height - The height of the list of values window. The default value

is 500.

- window-width - The width of the list of values window. The default value is 400.

Component Definition Page with List of Component Parameters for a Table-Validated Component

The screenshot shows the 'Component Definition' page in the Oracle Desktop Integration Manager. The page is titled 'Component Definition - Microsoft Internet Explorer'. The Oracle logo and 'Desktop Integration Manager' are at the top. Navigation links include 'Navigator', 'Favorites', 'Diagnostics', 'Home', 'Logout', 'Preferences', 'Contact Admin', and 'Admin'. The 'Component Definition' section contains the following details:

- Display Name: Test Table Comp 01
- Internal Name: TEST_TABLE_COMP_01
- Application: General Ledger
- Component Type: LOV - TABLE
- Component Entity: BneOAValueSet

Below these details is a table titled 'List of component parameters' with two columns: 'Parameter Name' and 'Parameter Value'.

Parameter Name	Parameter Value
table-column-alias	<Table Column Alias>
table-column-sort	ASCENDING
table-columns	<Table Columns>
table-headers	
table-select-column	<Table Select Columns>
window-caption	
window-height	500
window-width	400

At the bottom of the page, there are links for 'About this Page' and 'Privacy Statement', and a copyright notice: 'Copyright (c) 2006, Oracle. All rights reserved.'

8. Choose Apply.

Managing Parameters

This chapter covers the following topics:

- Managing Parameters

Managing Parameters

Use the parameter list definition pages to define and manage parameter lists and parameters.

To manage parameter lists and parameters:

1. Navigate to the parameter list definition pages from the Oracle E-Business Suite Navigator by choosing either Desktop Integration Manager: Define Parameter or a custom responsibility and menu path specified by your system administrator.

Select Application Page

2. Select the application that owns the parameter list, against which the parameter data will be saved.
3. To restrict all the lists of values in the subsequent pages to display only values from the selected application, select the Restrict to this Application option. Selecting this option helps ensure that you do not reference data from other applications in this parameter list if you want to maintain the list solely in a single application.
4. Select Next.

Define Parameter List Page

5. In the Define Parameter List page you can create a new parameter list.
 - If no parameter list is currently displayed, enter the information for the new parameter list in the blank fields and select Save.
 - If another parameter list is displayed, first select New to clear the page. Then enter information for the new parameter list and select Save.

See: To define a parameter list, page 4-4.

6. To view or update an existing parameter list, select the display name of the parameter list you want in the Name field. See: To define a parameter list, page 4-4.
7. To define a new parameter list by copying the definition of an existing list, first display the definition of the existing list and then select Duplicate. Enter the name, application, and unique code for the new list, and select Save.
8. To define parameter groups for the currently displayed parameter list, select

Groups. See: To define parameter groups, page 4-12.

9. If the currently displayed parameter list requires external API parameters, select Inputs to enter test data for those parameters before testing the parameter list. See: To define inputs, page 4-14.
10. To test how the currently displayed parameter list will appear, select Test. See: To test a parameter list, page 4-14.
11. To delete the currently displayed parameter list, select Delete.

To define a parameter list:

1. In the Define Parameter List page, to create a new list, enter a unique code to identify the parameter list. The code can include only the following characters:
 - Uppercase letters from A through Z
 - Numerals from 0 through 9
 - The underscore character (_)

Note: To preserve consistency, you cannot update the application or code for an existing parameter list.

2. In the Name field, enter the display name of the parameter list.
3. If you want the parameter list to remain in the Oracle Web Applications Desktop Integrator database tables after the list has been processed, select the Persistent option. If you do not select this option, the parameter list is deleted from the database tables after the list has been processed.
4. Optionally enter the fully qualified class name of a Java class that can perform pre-processing and validation on this parameter list. This class must implement the BneListProcessor interface.
5. Optionally enter comments about the parameter list.
6. The Define Parameter List page indicates whether any attributes are defined for the parameter list. To create or update attributes for the parameter list, select the Update List Attributes icon. See: To define attributes, page 4-5.
7. Optionally enter a prompt to appear to the left of the parameter list if it appears in the header region of the document.
8. Optionally enter a prompt to appear above the parameter list if it appears in the

lines region of the document.

9. Optionally enter a tip to provide users further guidance on the parameter list.
10. Select Save.
11. In the Parameters region, select Add Another Row to add a new parameter to the parameter list. See: To define a parameter, page 4-7.
12. To update a parameter definition, choose the update icon for that parameter. See: To define a parameter, page 4-7.
13. To delete a parameter from the list, choose the delete icon for that parameter.
14. To change the position of a parameter in the sequence, choose the move up icon or the move down icon for that parameter.

To define attributes:

1. Use the Define Attributes page to define attributes for a parameter list, a parameter, or a parameter group.

Define Attributes Page

Enter a unique code to identify the attributes. The code can include only the following characters:

- Uppercase letters from A through Z
- Numerals from 0 through 9
- The underscore character (_)

2. To define an attribute, enter an attribute name, an attribute value, or both. You can define multiple attributes with the same name. If you define named attributes, then you can enter the attributes in any order. However, if you define positional attributes, meaning you only enter attribute values and do not provide attribute names, then you must define the attributes in the correct position.

You can define up to 30 attributes.

Note: Oracle E-Business Suite Desktop Integration Framework removes leading and trailing spaces from attribute names when processing the names. However, attribute values are preserved exactly as you enter them.

3. Select Apply.

To define a parameter:

1. The Define Parameter page displays the parameter list to which this parameter belongs and the sequence number for the parameter.

Define Parameter Page

To base the parameter you are adding on an existing parameter metadata definition, select the parameter definition you want.

- To create a new parameter metadata definition, select New Definition.
- To update an existing parameter metadata definition, select the parameter definition you want and then choose the Update Parameter Definition icon.

See: To define parameter metadata, page 4-8.

2. The Define Parameter page indicates whether any attributes are defined for the parameter. To create or update attributes for the parameter, select the Update Parameter Attributes icon. See: To define attributes, page 4-5.
3. Enter a name for the parameter. If you are using an existing parameter definition, the name you enter here overwrites the previous name for the definition. Usually you should only enter a name when you are creating a new parameter not based on an existing definition.

4. Select the data type for the parameter.

The data type can be String, Number, Date, or Boolean.

5. Optionally enter a default parameter value.

- For a date parameter, enter the value in the following format: yyyy-mm-dd
hh24:mi:ss
- For a Boolean parameter, enter either Y or N.

If you enter a value, you must also enter a description for the parameter. If you do not enter a parameter value, then the description is optional.

6. Optionally enter any environment variable or profile option value formulas to derive the default value for the parameter. The formula should return a value that can be converted into the data type of the parameter. For example, a possible formula for a parameter with a data type of Number or String could be:
`env.userid`

7. Select Save.

To define parameter metadata:

1. The Define Parameter Metadata page displays the application to which the parameter definition belongs.

Define Parameter Metadata Page

Define Parameter Metadata

Cancel Delete Duplicate Save

Hint
Use the 'Refresh' button when changing the data type.

*** Required Fields**
Enter or update parameter metadata. This data defines the parameter, it is not an instance of the parameter.

Application

* Code
Only use UPPERCASE characters, numbers and underscores.

* Name
The Name of the parameter. Must be web safe, and may be used in HTML forms.

* Source
The Source of the parameter. This is a value meaningful to the definer of the parameter, and may be used in Lists of Values to search for the parameter.

Category

* User Name
The User Name of the parameter.

Data Type Refresh
The Data Type will determine the values that can be entered in the default value for the parameter metadata, as well as the parameter instance.

Value
The parameter's value. Enter String value, or leave empty.

Description
The description of the parameter. This is required if the value is set.
☐ Store as a translated value
If the parameter Data Type is 'String', should the Default Value be stored as a translated value.

Default Formula
Any environment or profile value formulas for the parameter. The formula return value should be able to be converted into the datatype of the parameter. Eg \$env\$.userid for datatype of Number or String.

Format Mask
A format mask for the parameter. The value will depend on the parameter datatype. Eg Date - yyyy-MM-dd HH:mm:ss (see SimpleDateFormat), Strings - [0-9]{3}-[0-9]{2}-[0-9]{4} (see RegExpValidator)

Attributes

Java Processor Class
The fully qualified class name of the Java class that may perform pre-processing and validation on this parameter. This class must implement the BnParameterProcessor interface.
☒ Default Required
☒ Default Visible

Enter a unique code to identify the parameter definition. The code can include only the following characters:

- Uppercase letters from A through Z
 - Numerals from 0 through 9
 - The underscore character (_)
2. Enter a display name for the parameter. The display name must be web safe and must be in a format that is suitable for display in HTML forms.
 3. Enter a source for the parameter. You can use the source to search for this parameter definition in lists of values in other Oracle E-Business Suite Desktop Integration Framework pages.
 4. Select the category to which the parameter belongs.
 - Miscellaneous
 - Position

- Appearance
 - Behavior
 - Data
 - Field
5. Enter a user name for the parameter.
 6. Select the data type for the parameter: String, Number, Date, Boolean, or Key Flex. Then choose Refresh to update the subsequent fields based on the selected data type.
 7. For a key flexfield parameter, select the application to which the flexfield belongs, enter the flexfield structure code, and enter the flexfield number.
 8. Optionally enter a default parameter value.
 - For a date parameter, enter the value in the following format: `yyyy-mm-dd hh24:mi:ss`
 - For a Boolean parameter, select either None, True, or False.
 - For a key flexfield parameter, enter the concatenated flexfield value.

If you enter a value, you must also enter a description for the parameter. If you do not enter a parameter value, then the description is optional.

9. For a string parameter, if you want to store the default value as a translated value, select the Store as a Translated Value option.
10. Optionally enter any environment variable or profile option value formulas to derive the default value for the parameter. The formula should return a value that can be converted into the data type of the parameter. For example, a possible formula for a parameter with a data type of Number or String could be:
`env.userid`
11. Optionally enter a format mask for the parameter. The value for the format mask depends on the parameter data type. For example, a format mask for a date parameter could be: `yyyy-MM-dd HH:mm:ss`

An example format mask for a string parameter could be:
`[0-9]{3}-[0-9]{2}-[0-9]{4}`
12. The Define Parameter Metadata page indicates whether any attributes are defined for the parameter. To create or update attributes for the parameter, select the Update Parameter Attributes icon. See: To define attributes, page 4-5.

13. Optionally enter the fully qualified class name of a Java class that can perform pre-processing and validation on this parameter. This class must implement the `BneParameterProcessor` interface.
14. Select whether a default value is required for the parameter.
15. Select whether the default value for the parameter is visible to users.
16. Select whether users can modify the parameter value to a value other than the default.
17. Select the validation type for the parameter: None, Fnd Lookups, Value Set, or Bne Query.
18. Depending on the selected validation type, enter the lookup type, value set, or query against which you want to validate the parameter value. If you selected the validation type None, leave the Validation Value field blank.
19. Enter the maximum size for the parameter value. The default value is 100.
20. Enter the display size for the parameter value. The display size must be equal to or less than the maximum size. The default value is 100.
21. Select the display type for the parameter.
 - For a string parameter, you can select List Box, CheckBox, Radio Buttons, Text Field, or Password Field.
 - For a number or date parameter, you can select List Box, Radio Buttons, Text Field, or Password Field.
 - For a Boolean parameter, you can select List Box, CheckBox, Radio Buttons, or Text Field.
 - A key flexfield parameter must use the Text Field display type.
22. If you selected the display type Radio Buttons, select whether the display style of the radio buttons should be vertical or horizontal. For all other display types, leave the display style set to None.
23. Optionally enter a prompt to appear to the left of the parameter if it appears in the header region of the document.
24. Optionally enter a prompt to appear above the parameter if it appears in the lines region of the document.
25. Optionally enter a tip to provide users further guidance on the parameter.

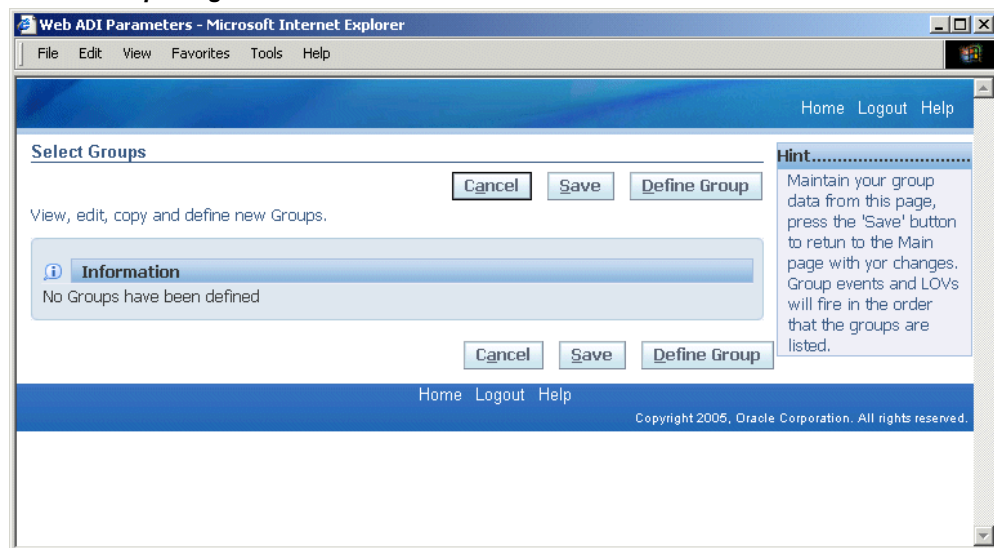
26. Optionally enter a key used to access this parameter on a page. The access key is typically used with the <ALT> key.
27. Optionally enter a URL that the application can call to provide users additional help on this parameter.
28. Select Save.
29. To create a new parameter definition by copying the currently displayed definition, select Duplicate. Enter the user name, application, and unique code for the new parameter definition, and select Save.
30. To delete the currently displayed parameter definition, select Delete.

To define parameter groups:

If validation of one parameter depends on the value of another parameter, or if several parameters are validated the same way, you can associate those parameters with each other by defining a parameter group and perform validation for all parameters in the group together. You can still also perform validation on each parameter individually if necessary.

1. The Select Groups page displays any parameter groups defined for the parameter list.

Select Groups Page



To define a new parameter group, select Define Group.

Define Parameter Group Page

2. In the Define Parameter Group page, enter a name for the parameter group.
3. Optionally enter the fully qualified class name of a Java class that can perform pre-processing and validation on this parameter group. This class must implement the BneGroupProcessor interface.
4. The Define Parameter Group page indicates whether any attributes are defined for the parameter group. To create or update attributes for the parameter group, select the Update Group Attributes icon. See: To define attributes, page 4-5.
5. Select the parameters you want in the Parameters Not in Group list and move them to the Parameters in Group list.
6. Select Save.
7. In the Select Groups page, to update a parameter group, choose the update icon for that group.
8. To define a new parameter group by copying the definition of an existing group, choose the duplicate icon for that group. Enter a unique name for the new group, and select Save.

9. To delete a parameter group from the list, choose the delete icon for that group.
10. To change the position of a parameter group in the sequence, choose the move up icon or the move down icon for that group.

Oracle Web Applications Desktop Integrator will execute group events and lists of values in the sequence in which the parameter groups are listed here.

11. Select Save.

To define inputs:

1. Use the Define Inputs page to provide test data for any external API inputs that a parameter list requires before you test how the parameter list will be rendered.

Define Inputs Page

For each input, enter the key and optionally enter a test value.

You can enter the inputs in any order. You can enter up to 10 inputs.

2. To delete all inputs and clear the list, select Clear.
3. To save the list of inputs, select Apply.

To test a parameter list:

1. The Parameter List Test Render page shows how the parameters in the list will be

rendered in the desktop application.

Parameter List Test Render Page

Enter valid test values in the parameter fields and choose Apply.

- If the validation succeeds according to the parameter list definition, then Oracle E-Business Suite Desktop Integration Framework displays the Define Parameter List page again.
 - If there are any errors in the validation or in the parameter list definition, then Oracle E-Business Suite Desktop Integration Framework displays an error message.
2. In the Parameter List Test Render page, choose Reset to clear any test values and reset the parameter fields to their default values. You can then enter new values and choose Apply to test again.
 3. If necessary, update the parameter definitions to correct any errors.

Loading Integrator Definitions

This appendix covers the following topics:

- Loading Integrator Definitions

Loading Integrator Definitions

You can use the Generic Loader (FNDLOAD) concurrent program to download integrator definitions from an Oracle E-Business Suite instance to a text file, and to upload integrator definitions from a text file to an Oracle E-Business Suite instance. For example, you can download an integrator definition from a development or test instance and upload it to a production instance. You can also download and store a text file representation of an integrator definition for source control purposes.

Use the `bneintegrator.lct` configuration file with the Generic Loader to load integrator definitions. The `bneintegrator.lct` file is located in the `$BNE_TOP/patch/115/import/` directory.

The entity for this configuration file is `BNE_INTEGRATORS`. This entity includes the following sub-entities: `BNE_QUERIES`, `BNE_PARAM_LISTS`, `BNE_COMPONENTS`, `BNE_SECURED_OBJECTS`, and `BNE_VIEWERS`.

Downloading Integrator Definitions

To download integrator definitions using the Generic Loader, specify the `bneintegrator.lct` configuration file, the name of an LDT file in which to save the downloaded data, and the `BNE_INTEGRATORS` entity. You can choose to download all integrators for an application, a single specific integrator, or two or more specific integrators.

- To download all integrators for an application, specify the application short name for that application in the `INTEGRATOR_ASN` download parameter. For example:

```
$ FNDLOAD apps/apps 0 Y DOWNLOAD bneintegrator.lct
bneintegrators.ldt BNE_INTEGRATORS INTEGRATOR_ASN=BNE
```

- To download a single specific integrator, specify the application short name for that application in the `INTEGRATOR_ASN` download parameter and the internal name of the integrator in the `INTEGRATOR_CODE` download parameter. For example:

```
$ FNDLOAD apps/apps 0 Y DOWNLOAD bneintegrator.lct bneNewMsgs.ldt
BNE_INTEGRATORS INTEGRATOR_ASN=BNE
INTEGRATOR_CODE=FND_NEW_MESSAGES_INTG
```

- To download two or more specific integrators, specify the application short name for that application in the `INTEGRATOR_ASN` download parameter and a list of the internal names of the integrators in the `INTEGRATOR_CODE_LIST` download parameter. The integrator internal names in the list should be separated by commas and should not include wildcards. For example:

```
$ FNDLOAD apps/apps 0 Y DOWNLOAD bneintegrator.lct bneNewMsgs.ldt
BNE_INTEGRATORS INTEGRATOR_ASN=BNE
INTEGRATOR_CODE_LIST=FND_NEW_MESSAGES_INTG,JOURNALS_115
```

Note: When you download integrators with the `INTEGRATOR_CODE_LIST` parameter, the Generic Loader may download any integrators whose internal names are substrings of the specified integrator internal names, in addition to the specified integrators. For example, if you specify `INTEGRATOR_CODE_LIST=XYZ_INTEG01,XYZ_INTEG02`, the Generic Loader may download integrators named `XYZ_INTEG` and `XYZ_INT` as well as the integrators `XYZ_INTEG01` and `XYZ_INTEG02`.

Note: Do not specify both the `INTEGRATOR_CODE` parameter and the `INTEGRATOR_CODE_LIST` parameter in the same command. Use only one of these parameters at a time, depending on the number of integrators you want to download.

Uploading Integrator Definitions

To upload integrator definitions using the Generic Loader, specify the `bneintegrator.lct` configuration file, the name of the LDT file that contains the definition or definitions to upload, and `-` to upload all entities in the LDT file. For example:

```
$ FNDLOAD apps/apps 0 Y UPLOAD bneintegrator.lct bneintegrators.ldt -
```

Related Topics

Generic Loader, *Oracle E-Business Suite System Administrator's Guide - Configuration*

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