

Selling and Fulfillment Foundation: Extending the Condition Builder Guide

Release 8.5

October 2009

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1

Checklist for Customization Projects

This chapter provides a high-level checklist for the tasks involved in customizing or extending Selling and Fulfillment Foundation.

1.1 Customization Projects

Projects to customize or extend Selling and Fulfillment Foundation vary with the type of changes that are needed. However, most projects involve an interconnected series of changes that are best carried out in a particular order. The checklist identifies the most common order of customization tasks and indicates which guide in the documentation set provides details about each stage.

1. Prepare your development environment

Set up a development environment that mirrors your production environment, including whether you deploy Selling and Fulfillment Foundation on a WebLogic, WebSphere, or JBoss application server. Doing so ensure that you can test your extensions in a real-time environment.

You install and deploy Selling and Fulfillment Foundation in your development environment following the same steps that you used to install and deploy Selling and Fulfillment Foundation in your production environment. Refer to Selling and Fulfillment Foundation system requirements and installation documentation for details.

An option is to customize Selling and Fulfillment Foundation with Microsoft COM+. Using COM+ provides you with advantages such as increased security, better performance, increased manageability of server applications, and support for clients of mixed environments. If this is your choice, see the *Selling and Fulfillment Foundation: Customization Basics Guide* about additional installation instructions.

2. Plan your customizations

Are you adding a new menu entry, customizing the Sign In screen and logo, creating new themes, customizing views and wizards, or adding new screens? Each type of customization varies in scope and complexity. For background, see the *Selling and Fulfillment Foundation: Customization Basics Guide*, which summarizes the types of changes that you can make.

Important guidelines about file names, keywords, and other conventions are found in the *Selling and Fulfillment Foundation: Customization Basics Guide.*

3. Extend the Database

For many customization projects, the first task is to extend the database so that it supports the other UI or API changes that you make later. For instructions, see the *Selling and Fulfillment Foundation: Extending the Database Guide* which include information about the following topics:

- Important guidelines about what you can and cannot change in the database.
- Information about modifying APIs. If you modify database tables so that any APIs are impacted, you must extend the templates of those APIs or you cannot store or retrieve data from the database. This step is required if table modifications impact an API.
- How to generate audit references so that you improve record management by tracking records at the entity level. This step is optional.
- 4. Make other changes to APIs

Selling and Fulfillment Foundation can call or invoke standard APIs or custom APIs. For background about APIs and the services architecture in Selling and Fulfillment Foundation, including service types, behavior, and security, see the *Selling and Fulfillment Foundation: Customizing APIs Guide*. This guide includes information about the following types of changes:

- How to invoke standard APIs for displaying data in the UI and also how to .save the changes made to the UI in the database.
- Invoke customized APIs for executing your custom logic in the extended service definitions and pipeline configurations.
- APIs use input and output XML to store and retrieve data from the database. If you don't extend these API input and output XML files, you may not get the results you want in the UI when your business logic is executing.
- Every API input and output XML file has a DTD and XSD associated to it. Whenever you modify input and output XML, you must generate the corresponding DTD and XSD to ensure data integrity. If you don't generate the DTD and XSD for extended Application XMLs, you may get inconsistent data.
- 5. Customize the UI

Sterling Commerce applications support several UI frameworks. Depending on your application and the customizations you want to make, you may work in only one or in several of these frameworks. Each framework has its own process for customizing components like menu items, logos, themes, and etc. Depending on the framework you want, consult one of the following guides:

- Selling and Fulfillment Foundation: Customizing Console JSP Interface for End User Guide
- Selling and Fulfillment Foundation: Customizing the Swing Interface Guide
- Selling and Fulfillment Foundation: Customizing User Interfaces for Mobile Devices Guide
- Selling and Fulfillment Foundation: Customizing the RCP Interface Guide and Selling and Fulfillment Foundation: Using the Sterling RCP Extensibility Tool Guide
- Customizing the Web UI Framework Guide
- 6. Extend Transactions

You can extend the standard Selling and Fulfillment Foundation to enhance the functionality of your implementation of Selling and Fulfillment Foundation and to integrate with external systems. For background about transaction types, security, dynamic variables, and extending the Condition Builder, see the *Selling and Fulfillment Foundation: Extending Transactions Guide Selling and Fulfillment Foundation: Extending the Condition Builder Guide*. These guides includes information about the following types of changes:

- How to extend Selling and Fulfillment Foundation Condition Builder to define complex and dynamic conditions for executing your custom business logic and using a static set of attributes.
- How to define variables to dynamically configure properties belonging to actions, agents, and services configurations.
- How to set up transactional data security for controlling who has access to what data, how much they can see, and what they can do with it.
- How to create custom time-triggered transactions. You can invoke and schedule these custom time-triggered transactions in much the same manner as you invoke and schedule Selling and Fulfillment Foundation standard time-triggered transactions. Finally, you can coordinate your custom, time-triggered transactions with external transactions and run them either by raising an event, calling a user exit, or invoking a custom API or service.
- 7. Build and deploy your customizations or extensions

After performing the customizations that you want, you must build and deploy your customizations or extensions. First, build and deploy these customizations or extensions in the test environment for verification. When you are ready, repeat the same process to build and deploy your customizations and extensions in the production environment. For instructions, see the *Selling and Fulfillment Foundation: Customization Basics Guide* which includes information about the following topics:

- How to build and deploy standard resources, database, and other extensions (such as templates, user exits, java interfaces).
- How to build and deploy Enterprise-Level extensions.

2

Customizing Condition Builder Fields

2.1 About Condition Builder

Selling and Fulfillment Foundation condition builder is used as a part of the service definition framework or in pipeline definitions. This can be used if you want to define dynamic conditions but also use some static set of attributes present in the condition builder. The following section explains the use of the fields that can be customized in the condition builder.

Note: All the string comparisons made in the condition builder are case sensitive.

For more information on defining conditions and using condition builder for services, refer to the *Selling and Fulfillment Foundation: Application Platform Configuration Guide*.

2.2 Adding Custom Attributes by Process Type

You can add custom attributes in the statement builder, based on the process types such as order fulfillment, outbound shipment and so forth. This customization is useful when you want to evaluate a condition based on an attribute that is not provided as a pre-defined set in the condition builder. These custom attributes are added in the condition builder when you create a condition. For more information on creating conditions refer to the *Selling and Fulfillment Foundation: Application Platform Configuration Guide*.

The custom attributes can be added by creating a custom XML file as below:

- Create a directory named extensions in <INSTALL_ DIR>/extensions/global/template/configapi directory.
- 2. Create a file named extn_conditionbuilder.xml in the <INSTALL_ DIR>/extensions/global/template/configapi directory. The format of a sample XML file is given in Example 2–1.

Note: For customizing condition builders for order hold types create a file called holdtype_extn_ conditionbuilder.xml and follow the same procedure outlined in this section.

Note: You must restart your application server, every time you add conditions in the extn_ conditionbuilder.xml file, for the changes to appear in the Applications Manager screen.

The sample file creates conditions for extended order number, shipping information and order details. The extended order details has further sub-elements such as, CustomItemId and ExtnOrderType.

The Id attribute must be identical to the element name. For example, the element ExtnOrderNo must contain the attribute Id="ExtnOrderNo".

Example 2–1 Sample File for Adding Custom Attributes

```
<CustomConditionAttributes>

<ProcessType Name="ORDER_FULFILLMENT">

<ExtnOrderNo Id="ExtnOrderNo" DisplayName="Extended Order Number"

DataType="Text-40" Type="Leaf"/>

<ExtnShiptoId Id="ExtnShiptoId" DisplayName="Extended Ship To Id"

DataType="Text-40" Type="Leaf"/>

<CustomOrderDetails Id="CustomOrderDetails" DisplayName="Custom Order

Details">

<CustomItemId Id="CustomItemId" DisplayName="Custom Item Id"

DataType="Text-100" Type="Leaf"/>

<ExtnOrderType Id="ExtnOrderType" DisplayName="Extended Order Type"

DataType="Text-100" Type="Leaf"/>

</CustomOrderDetails>
```

</ProcessType>

</CustomConditionAttributes>

Attribute	Description	
ProcessType		
Name	Required. Specify the name of the Process type where you are creating the condition.	
Elements		
DisplayName	Required. Specify the display name for this attribute in the condition builder screen.	
DataType	Required. Specify the data type needed for this attribute. For example, the pre-defined attribute BillToId has a data type of "ID-40".	
	The data type can be any one of the types provided in the <install_ DIR>/repository/datatypes/datatypes.xml file.</install_ 	
Id	Required. Specify the ID you want this condition to be associated. By default this is same as the element name.	
Туре	Required. Specify the type of this attribute. For example "Leaf" type identifies the attribute as part of a menu item.	
	If it is not specified, the attribute is considered to be a menu header leading to a sub menu. In Example 2–1 the element CustomOrderDetails does not have a type defined, since it has leading sub-menus such as CustomItemId and ExtnOrderType.	

Table 2–1 Attributes Details

- 3. The elements like ExtnOrderNo, ExtnShipToId, etc., as shown in Example 2–1, are used to define the conditions when it is saved in the database. Therefore, the element name must be unique for a single process type.
- 4. This XML file content is merged with the pre-defined static attributes by process type and displayed on the screen as shown below:

Order Fulfillment Condition	Builder			
Choose Field	illment) Order Attributes Participant Attributes Item Attributes Sourcion Attributes	• • •		
	Related Order Attributes	•		Add
Statements-	Extended Attributes	•	Custom Order Details 🔹 🕨	Custom Item Id
a CustomItemId Less Tha	1 '040' { Enter Your Own Attribute	:}	Extended Order Number	Extended Order Type
AND ExtnOrderType Is	0001.ex'		Extended Ship To Id	
AND ExtnOrderNo Grea	er Than 'oo123'		-	
AND ExtnShipToId Is 'at	cd'			
& or				

- 5. However, upon clicking OK in the statement builder window, the display name of the XML is shown in the condition detail window.
- 6. The display names are replaced with their element names once the condition is saved. These element names along with their conditions is referred as the condition value in the database table YFS_CONIDITION.
- **7.** These custom attributes are shown in the similar way as the current static attributes in the condition builder.

The custom attributes defined in this manner can be used as part of the service definition framework or in pipeline definitions for creating events or conditions. However, if used in pipeline definitions, the condition evaluator does not evaluate these custom attributes.

Note: The custom attributes cannot be used to evaluate conditions in pipeline determination rules.

2.3 Adding Custom Attributes during Condition Definition

When you define conditions for a particular order, you can optionally choose to add your own custom attributes to be evaluated as part of the condition.

- 1. The custom attributes can be added in the condition builder by clicking Choose Field and selecting Enter Your Own Attribute option in the statement builder window.
- 2. Enter the attribute name you want to be included in the condition as shown below, and click Add.

<	🔶 Order Fu	Ifillment	Condition Builder		
	-Statement Bu	uilder	ī		
	Choose F	ield 🗎	{Enter Your Own Attribute }	CustomerEmailId	
	Is			▼	
					🖳 Add
Ì	-Statements-				
		CustomerA	lternateShipToId Greater Than	'00908'	
	(;;);;				
	& or				

For example, if you want to include an attribute named CustomerEmailId, enter that attribute in the text box provided and continue with your statement creation. This attribute is included in evaluating the condition.

Note: The corresponding template for the condition should be extended to include the above attribute.

Note: This field is limited only to the unexposed key attributes that are pre-defined by Selling and Fulfillment Foundation as opposed to any XML attribute that you can enter.

3. Once the name is entered, the rest of the condition can be built in the same way as the pre-defined attributes. For more information on how to create a condition using pre-defined attributes, see the *Selling and Fulfillment Foundation: Application Platform Configuration Guide*.

The custom attributes created during condition definition can be used as part of the service definition framework or in pipeline definitions for creating events or conditions.

Note: Custom attributes defined in this manner is available only when defining this condition. The attribute entered is not available for re-use in other conditions.

2.4 Providing Condition Properties in Dynamic Condition

The condition definition enables you to create static or dynamic or advanced XML condition.

When creating dynamic conditions you must check Dynamic field and mention the class name to be invoked to evaluate the condition. This creation of dynamic condition is extended to include configuration of custom name, value properties. These properties are set into the java class before evaluating the condition.

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To enable these extended attributes, the dynamic condition class should implement a YCPDynamicConditionEx interface. The definition of this interface is as follows:

```
public interface YCPDnamicConditionEx {
    boolean evaluateCondition(YFSEnvironment env, String name, Map mapData,
    Document doc);
    void setProperties(Map map);
}
```

The parameter name passed to the interface refers to the Condition Name configured during definition.

For more information about the interface and parameters, see the *Selling* and *Fulfillment Foundation: Javadocs*.

2.5 Providing Condition Cases for an Advanced XML Condition

When you are modifying decision table-based advanced XML conditions, you can extend an advanced XML condition to include different attributes of custom cases. These attributes are set before you evaluate the decision table-based advanced XML condition of type.

Condition De	tail: GreexTest (C	Drder Fulfillment)			,⊛ [≥
Condition ID	GreexTest				
Condition Name	GreexTest				
Condition Group	Default				
	0) Static 🔘 Dynamic 🔘 Advanced X	ML		
Advanced XM	L Source View				
OrderType IS WEB LineQuantity SUM IS GREATER THAN 200 Then Return 7 Else Return 0 Condition Cases					
WEB		200	7		
WEB		100	5		
STORE		500	7		-11
CALLCENTER		250	3		

You can add or modify existing cases defined for a decision table-based advanced XML condition. You can modify the different attributes of a condition case. After you modify a condition case and click the Save button, the new values of the attribute reflects in both Advanced XML and Source View screen. The default return value defined for a decision table-based advanced XML condition displays as a hyperlink on the Advanced XML screen. If none of the condition cases are satisfied, the Greex engine returns the default value. Click the hyperlink to edit the default return value and specify the new default return value for the advanced XML condition. The pop-up screen displays the old value. You can also enter new values. The new value reflects in the Advanced XML screen as well as in the Source View screen when you click the Save button in the pop-up screen.

3

Creating and Modifying Advanced XML Conditions

3.1 About Advanced XML Conditions

This section explains how to modify an advanced XML condition, which is also known as the Greex rule. You can only assign new values to the modifiable parameters of an advanced XML condition. You can also localize or log information about an advanced XML condition or Greex rule.

3.2 What is Greex?

The Greex framework enables you to define advanced XML conditions based on the Greex syntax. The Greex framework provides a declarative mechanism to use an input XML document in order to evaluate advanced XML conditions.

Some of the salient features of the Greex framework are:

- It is XML aware.
- It supports namespaces.
- It contains a set of libraries.
- It can return an XML element, a String, or Boolean value.

The Greex framework contains the Greex library, which is comprised of a set of functions you can call on input data through XPath expressions. Constants can be used in function parameters also.

3.3 What is Greex Syntax?

Using the Greex syntax you can create advanced XML conditions or Greex rules. An advanced XML condition is used to evaluate certain conditions on the input data. The Greex syntax is an XML based. This style of condition evaluation enables you to use the input data in multiple ways, rather than just a Boolean output. The Greex syntax provides Greex constructs that are capable of being nested using multiple IF, and ELSE blocks, and also allows to group expressions using an AND or OR operator. Each expression comprises one or more function calls. You can include functions in a nested loop, which means parameters to functions can be other function calls. These contain basic IF ELSE conditions. Table 3–1 describes various elements of an If/Else construct.

Element	Description	
Condition	The Condition element provides a logical grouping of all expressions that need to be evaluated by operating on an input XML.	
Return	Every condition defined under the If/Else construct must return a value. A condition can return an XML element, string, or boolean value. It returns the appropriate value for an If/Else condition in the Return element. For example,	
	 If you want to return an XML element, the Return element can be: 	
	<return></return>	
	<value output="<Order</td></tr><tr><td></td><td>type=" td="" web"<=""></value>	
	discount="5"/>"/>	
	 If you want to return a string, the Return element can be: 	
	<return></return>	
	<value output="Draft Order</td></tr><tr><td></td><td>Created"></value>	
	 If you want to return a boolean value, the Return element can be: 	
	<return></return>	
	<value output="true"></value>	

Table 3–1 If/Else Condition's Element List

The Condition element contains various Expression elements. Each Expression element defines the expression that you want to evaluate for

the specified condition. Table 3-2 describes various elements of a condition.

Element	Description
Expression	The Expression element contains the expressions that you want to evaluate for a condition to satisfy. To make function calls in the expression, prefix the function name with "fn:". For example, define the following Expression element which makes a function call:
	<expression>fn:equals(@ZipCode,"01876")<!--<br-->Expression></expression>
	You can also pass functions as parameters to other functions. For example, you can define the following Expression element to pass functions as parameters to other functions:
	<expression>fn:intGreater(fn:count(OrderL ines/OrderLine), "100")</expression>
Group	This is an optional element. If you want to evaluate a set of expressions together, you must group these set of expressions together.
	The Group element's "op" attribute indicates the operation you want to perform on the set of expressions. The valid values are: "or" and "and". You can define more than one expression in a Group element. If the Group element's op value is "and", then the condition satisfies only if ALL expressions that are part of the Group element evaluates to "true". Likewise, if the Group element's "op" attribute is "or", then the condition satisfies only if ONE of the expressions that are part of the Group element evaluates to "true".
	You can create any level of nested Group and Expression elements.
	Note: If you want to evaluate a single expression, define a single Expression element under the Condition element, without creating the Group element.

Table 3–2 Condition's Element List

A sample IF ELSE construct for defining an advanced XML condition or Greex rule can be:

```
<If>
  <Condition name="isWebOrder?">
  <Group op="and">
    <Expression>fn:!equals(@orderType,"WEB")</Expression>
    <Expression>fn:equals(address::@ZipCode, "01876")</Expression>
   </Group>
 </Condition>
  <Return>
         <Value output="&lt;Order type=&quot;Web&quot;
               discount="5"/&qt;"/>
 </Return>
</If>
<Else>
<Return>
        <Value output="&lt;Order type=&quot;Catalog&quot;
               discount="2"/>"/>
</Return>
</Else>
```

3.4 Writing Custom Greex Functions

The Greex framework provides a set of defined functions as a part of the Greex library. You can also write custom Greex functions, if necessary.

To write a custom Greex function:

- Provide implementation for your custom library by implementing all functions of the com.yantra.ycp.greex.library.LibraryFunction interface. You must implement the following functions:
 - Object invoke(GreexContext ctx, List params)
 - boolean validateParams(List params)
 - String getName()
 - String getDescription()
 - String getReturnType()
 - String[] getParamTypes()
- Register your custom library with Greex framework by calling the registerFunction(LibraryFunction function) method of the LibraryFunctionFactory class.

For example, to register your custom java class such as MyCustomLibrary, call the following registerfunction() method:

```
LibraryFunctionFactory.getInstance().registerFunction(new
MyCustomLibrary());
```

- **3.** Create a jar for the custom library that you created in Step 1 and add it to the application server classpath.
- 4. Load the custom library to the LibraryFunctionFactory of Greex by creating a custom Greex initializer servlet (such as MyCustomGreexInitializer), which can be a normal servlet. To load this function with Greex framework, specify the name of the servlet in the <INSTALL_</p>

DIR>/repository/eardata/platform/descriptors/weblogic/WAR/W EB-INF/web.xml file. For example, if your servlet class is com.servlet.MyCustomGreexInitializer, add the following entry in the web.xml file:

```
<servlet>
    <servlet-name>MyCustomGreexInitializer</servlet-name>
    <servlet-class>com.servlet.MyCustomGreexInitializer</servlet-class>
    <load-on-startup>4</load-on-startup>
</servlet>
```

- 5. Copy the custom jar that you created in Step 3 to the following locations:
 - INSTALL_DIR>/jar/smcfs
 - <INSTALL_DIR>/repository/eardata/platform/war/yfscommon

Note: Make sure that the custom jar is signed before copying it to this location. You must also update the <INSTALL_ DIR>/repository/eardata/platform/war/yfscommon/jar list.txt file.

• <INSTALL_DIR>/platformrcp/5_ 0/othertools/com.yantra.yfc.other.tools.zip/com.yantra.i de.rcptools.core_1.1.0/lib

3.5 Localizing the Greex Syntax

Based on the requirement, you can appropriately localize the Greex syntax. For more information about localizing the Greex syntax, see the *Selling and Fulfillment Foundation: Localization Guide*.

3.6 Logging Information for the Greex Rule

You can log information for the Greex rule or an advanced XML condition at different levels. The different levels of logging information is described in GreexLogConstants. You can log information ranging from Apache's log4j framework to a simple System.out.println().

To log information for the Greex rule:

1. Create the GreexLogger class and implement the following methods within the class:

```
log(GreexLogData data) method and log information as needed.
For example:
public class MyLogger implements GreexLogger
{
    public void log(GreexLogData data)
    {
        System.out.println("Message:: "+data.getMessage());
        System.out.println("Severity:: "+data.getSeverity());
    }
}
```

2. Register the GreexLogger class with the GreexContext using the registerLogger() method. For example,

```
public class MyApp
{
   GreexContext ctx = new GreexContext();
   Ctx.registerLogger(new MyLogger(),GreexLogConstants.GREEX_DEBUG);
}
```

3.7 The Sterling Greex Editor - Setup Phase 1

Using the Greex editor you can conveniently create and modify an advanced XML file, which is also referred as the *.greex file. The advanced XML file is used to define new advanced XML conditions to evaluate them on the input data.

3.7.1 Installing Prerequisite Software Components

This section describes the various software components required for creating an advanced XML condition or a Greex rule using the Sterling Greex Editor. Before creating an advanced XML condition using Sterling Greex Editor, ensure that you have already installed the following software components:

Eclipse SDK

Install the Eclipse SDK version that Sterling Commerce supports. For more information about the Eclipse SDK version, see the *Selling and Fulfillment Foundation: Installation Guide*.

Eclipse Related plug-in

Install the Eclipse Modelling Framework (EMF) plug-in version that Sterling Commerce supports. For more information about the Eclipse EMF plug-in versions, see the *Selling and Fulfillment Foundation: Installation Guide*.

Java Development Kit (JDK)

Install the JDK version that Sterling Commerce supports. For more information about the JDK version, see the *Selling and Fulfillment Foundation: Installation Guide*.

Note: If you are using a browser with JRE version lower than 1.5, the exception java.security.AccessControlException displays when you try

to open the Greex rule using the Applications Manager.

To resolve this error, in the <JRE_

HOME>/lib/security/java.policy file, add the following property under the default permission for all domains section:

permission java.util.PropertyPermission
"java.home", "read";

where <JRE_HOME> is the JRE installation directory.

Now, close all the browser instances and again log in to Selling and Fulfillment Foundation.
• Sterling Greex plug-in

Install the Sterling Other Tools plug-in that Sterling Commerce supports. For more information about the Sterling Greex plug-ins version, see the *Selling and Fulfillment Foundation: Installation Guide*.

This plug-in is shipped along with Selling and Fulfillment Foundation that can be found at:

<INSTALL_DIR>/platformrcp/5_0/othertools

Note: If you are installing a new version of the Sterling Other Tools plug-ins or updating the previous versions you must clean the cached build information in Eclipse.

To clean this information, start Eclipse with the "-clean" option:

- 1. Right-click on the Eclipse shortcut and select Properties from the pop-menu. The Properties window displays.
- 2. In Target, enter the command line argument "-clean" at the end. For example, "C:\Eclipse
 - 3.2\eclipse\eclipse.exe" -clean.
- 3. Start Eclipse.

Installing the Sterling Other Tools plug-in

To install the Sterling Other Tools plug-in:

Copy all of the folders within the the <INSTALL_DIR>/platformrcp/5_ 0/othertools directory to the <ECLIPSE_HOME>/plugins folder.

<ECLIPSE_HOME> refers to the Eclipse SDK installation directory. Restart Eclipse SDK in order to allow the newly installed plug-ins to be found.

3.7.2 The Sterling Greex Editor - Setup Phase 2

Before you start working with the Greex Editor, you must create a java project, which acts as a container for the Greex Model wizard.

To create a java project:

1. Start Eclipse SDK.

- **2.** From the menu bar, select File > New > Project.... The New Project window displays.
- 3. From the list of wizards, under Java category, select the Java Project.
- 4. Click Next. The New Java Project window displays.

Project name: NewProject
Contents
• Create new project in workspace
O Create project from existing source
Directory: C:\Eclipse 3.2\workspace\dri\NewProject Browse
_ JRE
Use default JRE (Currently 'jre1.4.2_11') <u>Configure JREs</u>
OUse a project specific JRE: jre1.4.2_11
Project layout
• Use project folder as root for sources and class files
O Create separate source and output folders <u>Configure default</u>
(?) < Back Next > Finish Cancel

- 5. In Project name, enter the name of the new java project.
- 6. Click Next. The Java Settings page displays.
- 7. Click Finish. The new java project is created.

3.7.3 The Sterling Greex Editor - Setup Phase 3

After creating the new java project, run the Greex Model wizard on top of the new java project that you created. The Greex Model wizard either creates an empty *.greex file. You can create an advanced XML condition or Greex rule in the *.greex file.

To run the Greex Model wizard:

- 1. Start Eclipse SDK.
- 2. From the menu bar, select Window > Show View > Navigator. The java project displays in the Navigator view.
- Expand the java project that you created. For more information about creating a java project, see Section 3.7.2, "The Sterling Greex Editor - Setup Phase 2".
- Right-click on the folder where you want to store the *.greex file and select New > Other from the pop-up menu. The New window displays.
- 5. From the list of wizards, select Rich Client Platform Wizards > Rich Client Platform Greex Model.
- 6. Click Next. The New window displays.

Enter or select the parent fold	der:	
Testing		
testproj		
File name: My1.greex		
Advanced >>		
	< Back Next >	Finish Cancel

- 7. In File name, enter the name of the *.greex file.
- 8. Click Next. The Greex Model window displays.

Model Object				
Greex Rule				~
XML Encoding				
UTF-8				*
	< Back	Next >	Finish	Cancel

- 9. In Model Object, select Greex Rule.
- 10. In XML Encoding, select UTF-8.
- **11.** Click Finish. The *****.greex file is created in the specified folder.

3.7.4 Creating a New Advanced XML Condition

After creating the *.greex file, you can define an advanced XML condition or Greex rule. You can create two types of advanced XML conditions:

- Normal advanced XML condition
- Decision Table based advanced XML condition.

3.8 Creating a Normal Advanced XML Condition"

After creating the *.greex file, you can define a normal advanced XML condition or Greex rule.

Note: Make sure that you **do not** add any comments in the advanced XML condition or Greex rule of any type.

The normal advanced XML condition is useful in scenarios where you need to define multiple condition criteria for an advanced XML condition you need to define multiple condition criteria and each condition criteria is associated with different attributes. These multiple condition criteria are defined using nested IF and ELSE constructs. For example, you may want to create a normal advanced XML condition for the condition criteria such as:

If Ordertype="WEB" and OrderQty="100", then TaxExemptFlag="N".

Else

```
If OriginalTotalAmout="1000" and OrderLine>"5", then
```

```
discount="10" TaxExemptFlag="Y".
```

Else TaxExemptFlag="N".

In this case, we have multiple condition criteria and each condition criteria has different attributes associated with it. The first condition criteria has Ordertype, OrderQty, and Discount associated with it. Whereas, the second condition criteria has OriginalTotalAmount, OrderLine, and TaxExemptFlag associated with it.

These condition criteria are defined in the *.greex file using nested IF AND ELSE constructs. A sample *.greex file for the advanced XML condition is as follows:

```
<GreexRule desc="Determine Discount and Tax Exemption based on
various attributes"
id="getDiscountTaxExempt"
name="Get Discount and Tax Exempt"
returnType="Xml"
type="">
<If>
<Condition name="isDiscount20?">
<Group op="and">
```

```
<Expression>fn:equals(@orderType, &quot;WEB&quot;)</Expression>
    <Expression>fn:equals(@orderQty, &quot;100&quot;)</Expression>
  </Group>
 </Condition>
  <Return>
  <Value output="&lt;Order TaxExemptFlag=&quot;N&quot;/>"/>
 </Return>
</If>
<Else>
   <Tf>
    <Condition name="TaxExempted?">
      <Group op="and">
      <Expression>fn:equals(@OriginalTotalAmout, &quot;1000&quot;)</Expression>
       <Expression>fn:intGreater(@orderLine,&quot;5&quot;)</Expression>
      </Group>
     </Condition>
     <Return>
      <Value output="&lt;Order discount=&quot;10&quot;
              TaxExemptFlag="Y"/>"/>
    </Return>
    </If>
    <Else>
    <Return>
      <Value output="&lt;Order discount=&quot;20&quot;
            TaxExemptFlag=&guot;N&guot;/>"/>
    </Return>
   </Else>
 </Else>
</GreexRule>
```

To create a normal advanced XML condition:

- 1. Expand the java project that you created.
- 2. In the Project Explorer hierarchy, select the *.greex file. Right-click and select Open With > Greex Model Editor from the pop-up menu.
- **3.** Expand the tree structure that appears in the Greex Editor. Click on a node from the tree. All child leaves of the node are listed. The Document Root element contains the Greex Rule root element.
- 4. Select the Greex Rule root element in the Properties view. Enter the values for various attributes. See Table 3–5 for the description of various attributes of the Greex Rule root element.

5. In the Properties view, you can view various properties of the selected element.

To open the Properties View:

From the menu bar, select Window > Show View > Other.... From the list of views under Basic, select Properties.

Attribute	Description
Desc	Enter the description of the Greex rule.
Id	Enter a unique identifier of the Greex rule.
Name	Enter the name of the Greex rule.
Return Type	Enter the return type of the Greex rule. For a normal Greex rule, the valid values are "Xml", "String", and "Boolean". The normal Greex rule can return an XML document, string, or boolean value.
Туре	By default, a Greex rule is a normal Greex rule.

Table 3–3 Greex Rule Element's Attribute List

- 6. Under the Greex Rule root element, create a new IF ELSE construct element, as needed. Right-click on the Greex Rule root element and select New Child > If/Else from the pop-up menu. You can create any level of nesting of IF and ELSE constructs.
- 7. Select the If/Else element. In the Properties view, enter the name of the If element in the Name property.
- Under the If/Else element, create a new Condition child element. Right-click on the If/Else element and select New Child > Condition from the pop-up menu.
- **9.** Select the Condition element. In the Properties view, enter the name of the Condition element in the Name property.
- 10. As every condition must return a value, under the If/Else element, create a new Return element and specify the appropriate return value for the associated condition. Right-click on the If/Else element and select New Child > Return from the pop-up menu.
- **11.** Right-click on the Return element and select New Child > Value from the pop-up menu. The Enter the value pop-up window displays.

- **12.** Enter the value that you want to return if the IF condition satisfies.
- 13. Select the Return element. In the Properties view, in the Default property, specify the default value (if necessary) that you want to return if the IF condition is not satisfied. In the Output property, specify the value that you want to return if the IF condition satisfies.
- 14. Under the Condition element, create a new Expression element to specify the expressions that you want to evaluate for the condition to satisfy. Right-click on the Condition element and select New Child > Expression from the pop-up menu. The Edit Expression pop-up window displays.
- 15. In Expression, enter the expression you want to evaluate. You can make function calls in the expression by prefixing the function name with "fn:". You can also pass functions to other functions.

Note: Press Ctrl+Space and select the expression from the drop-down list.

16. (Optional) If you want to evaluate a set of expressions together, you must group them. Under the Condition element, create a new Group element to group a set of expressions together. Right-click on the Condition element and select New Child > Group from the pop-up menu.

Now, you can add more than one expression to this group. Right-click on the Group element and select New Child > Expression from the pop-up menu.

You can also add a new Group element to an existing Group element. Right-click on the Group element and select New Child > Group from the pop-up menu.

Note: You can create any level of nested Group and Expression elements.

17. (Optional) Select the Group element. In the Properties view, specify the operation that you want to perform on the set of expressions in the Op property. The valid values are: "or" and "and". If you specify the O_P property as "or", a condition is satisfied if any of the expressions specified in the group is "true".

If you specify the Op property as "and", a condition is satisfied only if all expressions specified in the group is "true".

18. Click Save.

3.9 Creating a Decision Table Based An Advanced XML Condition

After creating the *.greex file, you can define a normal advanced XML condition or Greex rule.

Note: Make sure that you **do not** add any comments in the advanced XML condition or Greex rule of any type.

Decision table based advanced XML conditions are useful in scenarios where you have multiple nested condition criteria to be defined for an advanced XML condition but each condition criteria has same attributes associated with it. In such cases, you can write just one condition and have a table of parameters that works like a switch statement. In the decision table based advanced XML condition you can define multiple nested condition criteria in a single IF construct. Hence, there is no ELSE construct in case of decision table based advanced XML conditions. The IF construct contains an array of constant values instead of one constant value as used to be in case of normal advanced XML conditions. The IF construct has a table of parameters that works like a switch statement.

For example, you may want to create a decision table based advanced XML condition for the condition criteria such as:

If Ordertype="WEB" and OrderLineQty="200", then Discount="5".

Else

```
If Ordertype="STORE" and OrderLineQty="500", then Discount="7"
```

Else

```
If Ordertype="CALL" and OrderLineQty="250", then Discount="3".
```

Else

default="0"

Table 3–4 describes the above scenario in the form of a decision table.

Table 3–4 Decision Table

Order Type	Order Line Quantity	Discount
WEB	200	5
STORE	500	7
CALLCENTER	250	3
default C)	·

In this case, we have multiple condition criteria but each condition criteria has the same attributes associated with it. All the condition cases have Ordertype, OrderLineQty, and Discount attributes associated with it. Therefore, this advanced XML condition has only one IF construct and it contains an array of constant values.

Note: For a decision table based Greex rule, it is mandatory to give a default return value. This value is returned if no IF condition gets satisfied.

These condition criteria are defined in the *.greex file using IF constructs. A sample *.greex file for the decision table-based advanced XML condition is as follows:

```
<Return>

<Value default="0" output="5|7|3"/>

</Return>

</If>

</GreexRule>
```

To create a new decision table based advanced XML condition:

- 1. Expand the java project that you created.
- In the Project Explorer hierarchy, select the *.greex file. Right-click
 > Open With > Greex Model Editor.
- Expand the tree structure that appears in the Greex editor panel. Click on a node from the tree, all the child leaves of the node are listed. The Document Root element contains the root element Greex Rule.
- Select the root element Greex Rule and in the Properties view, enter the values for various attributes. Table 3–5 describes various attributes of the root element Greex Rule.

In the Properties view, you can view various properties of the selected element. To open the Properties View, from the menu bar, select Window > Show View > Other.... From the list of views under Basic, select Properties.

Attribute	Description
Desc	Enter the description of the Greex rule.
Id	Enter the unique identifier of the Greex rule
Name	Enter the name of the Greex rule.
Return Type	Enter the return type of the Greex rule. For a decision table based Greex rule, the only valid value is "String". The decision table based Greex rule can only return a String.
Туре	Enter the Greex rule type. By default, it is a normal Greex rule. To make it a decision table based Greex rule, select "DecisionTable" from the drop-down list.

Table 3–5 Greex Rule Element's Attribute List

5. Under the root element Greex Rule, create a new IF construct element as per the requirement. Right-click on the root element Greex Rule and select New Child > If from the pop-up menu.

Note: A decision table based Greex rule cannot have an ELSE construct. It can only have a single IF construct.

- 6. Select the If element and in the Properties view, enter the name of the If element in the Name property.
- Under the If element, create a new Condition child element. Right-click on the If element and select New Child > Condition from the pop-up menu.
- 8. Select the Condition element and in the Properties view, enter the name of the Condition element in the Name property.
- 9. As every condition must return a value, under the If element, create a new Return element and specify the appropriate return value for the associated condition in the Value element. Right-click on the If element and select New Child > Return from the pop-up menu.
- **10.** Right-click on the Return element and select New Child > Value from the pop-up menu. The Enter the value pop-up window displays.
- **11.** Enter the value which you want to return if the IF condition gets satisfied.
- **12.** Select the Return element. In the Properties view, in the Default property, specify the default value which you want to return if the none of the IF condition does not gets satisfied and in the Output property, specify the value which you want to return if the IF condition gets satisfied.

Note: For a decision table based Greex rule, it is mandatory to give a default return value.

For a decision table based Greex rule, you can define an array of constant values in the Value element. The multiple values are separated using the "|" operator. For example, 5|7|3.

13. Under the Condition element, create a new Expression element to specify the expression(s) that you want to evaluate for the condition

to be satisfied. Right-click on the Condition element and select New Child > Expression from the pop-up menu. The Edit Expression pop-up window displays.

14. In Expression, enter the expression that you want to evaluate. You can make function calls in the expression by prefixing the function name with "fn:". You can also pass functions to other functions.

Note: You can press Ctrl+Space and select the expression from the drop-down list.

For a decision table based Greex rule, you can define an array of constant values for a particular XML attribute in the Expression element. The multiple values are separated using the "|" operator. For example, fn:equals(@orderType, "WEB|STORE|CALLCENTER").

15. (Optional) Only if you want to evaluate a set of expressions together, you must group these set of expressions. Under the Condition element, create a new Group element to group a set of expressions together. Right-click on the Condition element and select New Child > Group from the pop-up menu.

Now, you can add more than one expressions to this group. Right-click on the Group element and select New Child > Expression from the pop-up menu.

You can also add a new Group element to a Group element. Right-click on the Group element and select New Child > Group from the pop-up menu.

Note: Any level of nesting of Group and Expression elements is allowed.

16. (Optional) Select the Group element and in the Properties view, specify the operation that you want to perform on the set of expressions in the "op" property. The valid values are: "or" and "and".

If you specify the Op property as "or" then a condition gets satisfied if any of the expressions specified in the group evaluates to true.

If you specify the Op property as "and" then a condition gets satisfied only if all of the expressions specified in the group evaluates to true.

17. Click Save.

3.10 Validating an Advanced XML Condition

After creating an advanced XML condition, you must validate its syntax and structure. For example, if an advanced XML condition is of decision table type, it must contain only one IF construct and no ELSE constructs. Therefore, you must validate an advanced XML condition before loading it into the database.

To validate an advanced XML condition:

- 1. Expand the java project that you created.
- 2. In the Project Explorer hierarchy, select the *.greex file. Right-click and select Open With > Greex Model Editor from the pop-up menu.
- **3.** Expand the Greex rule that appears in the Greex editor panel. Click on a node from the tree. All child leaves of the node are listed. The Document Root element contains the Greex Rule root element.
- 4. Select the Greex Rule root element and right-click. Select Validate Greex Rule from the pop-up menu.

If the Greex rule that you created uses correct syntax and structure, the message "Greex rule validation succeeded" displays. Otherwise, the system displays an appropriate error message.

3.11 Loading Advanced XML Conditions into the Database

After creating an advanced XML condition or Greex Rule using the Rich Client Platform Greex Editor, load the *.greex file into the database. This file contains the newly created advanced XML condition that you want to load into the database. Using the Applications Manager, you can modify appropriate parameters of the advanced XML condition (if necessary).

Note: Before loading an advanced XML condition or Greex rule into the database, you must validate the advanced XML condition for a valid structure or syntax. For more information about validating an advanced XML condition, see Section 3.10, "Validating an Advanced XML Condition".

3.11.1 Steps to Load an Advanced XML Condition

3.11.1.1 Before Loading an Advanced XML Condition

1. Modify the <ECLIPSE_

HOME>/plugins/com.yantra.ide.othertools.greex.editor_ <VERSION_NUMBER>/lib/greexide.properties file and specify the JDBC connection properties based on the database you are using. <ECLIPSE_HOME> is the directory where Eclipse SDK is installed. <VERSION_NUMBER> is the current version number of the Greex editor plug-in.

 Depending on the database, copy the required database driver jar file to the <ECLIPSE_

HOME>/plugins/com.yantra.ide.othertools.greex.editor_ <VERSION_NUMBER>/lib directory. For example, if you are using an Oracle database, copy the ojdbc14.jar file.

3. Edit the <ECLIPSE_

HOME>/plugins/com.yantra.ide.othertools.greex.editor_ <VERSION_NUMBER>/META-INF/MANIFEST.MF file and add the relative path (relative to the <ECLIPSE_</pre>

HOME>/plugins/com.yantra.ide.othertools.greex.editor_ <VERSION_NUMBER> directory) of the required database driver jar file in the Bundle-ClassPath property.

For example, if you are using an Oracle database, add lib/ojdbc14.jar to the Bundle-ClassPath property, as follows:

```
Bundle-ClassPath: greexeditor.jar, lib/ojdbc14.jar
```

 If Eclipse SDK is already running, restart Eclipse in clean mode, as follows:

```
eclipse.exe -clean
```

Loading an Advanced XML Condition

3.11.1.2 Steps to Load an Advanced XML Conditions

To load an advanced XML condition into the database:

1. Start Eclipse SDK.

- 2. From the menu bar, select Window > Show View > Navigator. The java project displays in the Navigator view.
- Expand the java project that you created. For more information about creating a java project, see Section 3.7.2, "The Sterling Greex Editor - Setup Phase 2".
- Right-click the folder that contains all *.greex files, which contains an advanced XML condition that you want to load into the database. Select Greex > Export Greex Rule to Database from the pop-up menu. The Export Greex Rule to Database window displays.

Process Type Key	20030708142	438541			•
Owner Key	AIRB				•
		< Back	Next >	Finish	Cancel

Field	Description
Process Type Key	Select the key of the appropriate process type from the drop-down list.
Owner Key	Select the key of the appropriate owner from the drop-down list.

 Table 3–6
 Select the Process Type and Owner Key Window

5. Click Next. The Select Greex Rules window displays.

Process Type Key And Owner Key
Select the greex rules that are to be inserted with the Process Type Key 20030708142438541 and Owner Key AIRB. The rules which cannot be inserted into the database will be disabled. The reason for disabling them can be seen as the tooltip of the corresponding "Condition Id" label.
Select All Unselect All
List of greex files
✓ test.greex Condition Id test
Commit To Database Create Factory Settings XML File
Factory Settings File
(?) < Back

Field	Description		
Process Type Key and O	Process Type Key and Owner Key		
Displays the process typ	e and owner keys that you selected.		
Select All	Click this button if you want to select all *.greex files listed in List of Greex Files panel.		
Unselect All	Click this button if you want to unselect all *.greex files listed in the List of Greex Files panel.		
List of Greex files			
Select the *.greex files	s that you want to load into the database.		
Connection Id	Displays the unique identifier of a Greex rule defined in each *.greex file that you select.		
Commit To Database	Choose this option to commit the selected Greex rules to the database.		
Create Factory Settings XML File	Choose this option to create the factory setup XML file for the selected Greex rules.		
Factory Settings File	Enter the path and name of the new factory settings XML file in which you want to store the YFS_ CONDITION Factory Settings. Click		

Table 3–7 Select Greex Rules Window

6. Click Finish.

3.12 Importing Advanced XML Conditions From the Database

You can import the existing advanced XML conditions or Greex rules from the database to your local machine. This is useful if you want to modify the structure of an advanced XML condition. For example, adding new expressions or IF and ELSE constructs to an existing advanced XML condition.

3.12.1 Before Importing an Advanced XML Condition

1. Modify the <ECLIPSE_

HOME>/plugins/com.yantra.ide.othertools.greex.editor_ <VERSION_NUMBER>/lib/greexide.properties file and specify the JDBC connection properties based on the database you are using. <ECLIPSE_HOME> is the directory where Eclipse SDK is installed. <VERSION_NUMBER> is the current version number of the Greex editor plug-in.

 Depending on the database, copy the required database driver jar file to the <ECLIPSE_

HOME>/plugins/com.yantra.ide.othertools.greex.editor_ <VERSION_NUMBER>/lib directory. For example, if you are using an Oracle database, copy the ojdbc14.jar file.

3. Edit the <ECLIPSE_

HOME>/plugins/com.yantra.ide.othertools.greex.editor_ <VERSION_NUMBER>/META-INF/MANIFEST.MF file and add the relative path (relative to the <ECLIPSE_</pre>

HOME>/plugins/com.yantra.ide.othertools.greex.editor_ <VERSION_NUMBER> directory) of the required database driver jar file in the Bundle-ClassPath property.

For example, if you are using an Oracle database, add lib/ojdbc14.jar to the Bundle-ClassPath property, as follows:

```
Bundle-ClassPath: greexeditor.jar,
lib/ojdbc14.jar
```

4. If Eclipse SDK is already running, restart Eclipse in clean mode, as follows:

```
eclipse.exe -clean
```

importing an Advanced XML Condition

3.12.2 Steps to Import Advanced XML Conditions

To import advanced XML conditions from the database:

- 1. Start Eclipse SDK.
- 2. From the menu bar, select Window > Show View > Navigator. The java projects display in the Navigator view.

- **3.** Right-click the java project in which you want to import the *.greex files from the database.
- Select Greex > Import Greex Rule from Database from the pop-up menu. The Import Greex Rule from Database window displays. Each
 *.greex file contains an advanced XML condition or Greex rule.

For more information about creating a java project, see Section 3.7.2, "The Sterling Greex Editor - Setup Phase 2".

<pre> test <pre> </pre> </pre> <	"SynchronizeToDB" to commit	the greex files back to database Select All Unselect	All
	✓ test ✓ getOrderChannel_1	<pre><?xml version="1.0" encoding="UTF-8"?> <greexrule <if="" desc="Determine order channel based on order I id=" getorderchannel"="" name="Get Order Channel" returnt=""></greexrule></pre>	

Table 3–8 Select Greex Rules Window

Field	Description
Select All	Click this button if you want to select all *.greex files listed in the Condition Key panel.
Unselect All	Click this button if you want to unselect all *.greex files listed in the Condition Key panel.

Field	
Condition Key	
Displays the list of condition identifiers specified for each *.greex file loaded in the database. If you position the mouse on a particular condition identifier, in the right panel, the contents of the selected advanced XML condition or Greex rule displays. For example, Greex rule or the advanced XML condition identifier, name, description, and so forth. All IF and ELSE constructs defined for that advanced XML condition also displays. Select or unselect the appropriate *.greex files that you do not want to copy to your local machine.	

- 5. Click Finish. The selected *.greex files are imported into the java project.
- 6. Open the *.greex files using the Sterling Greex editor and modify the advanced XML condition or Greex rule as needed.
- Reload the modified *.greex files into the database. For more information about reloading the advanced XML conditions into the database, see Section 3.11, "Loading Advanced XML Conditions into the Database".

3.13 Modifying an Advanced XML Condition

Using the Applications Manager, you can only change the modifiable parameters of an advanced XML condition. You cannot change the structure of an advanced XML condition. For more information about modifying advanced XML conditions, see the *Selling and Fulfillment Foundation: Application Platform Configuration Guide*.

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