User Guide

Worksoft Certify® Integration with SAP® Solution Manager

WORKSOFT®

Worksoft Certify Integration with SAP Solution Manager User Guide

Version 9.0.3

Patent

Worksoft Certify®

U.S. Patent No. 7,600,220

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Worksoft Certify Integration with SAP Solution Manager

Table of Contents

Chapter 1   Overview

In This Chapter

Understanding Worksoft Certify and SAP Solution Manager Integration

By integrating Worksoft Certify® with SAP® Solution Manager, you can create, edit, execute, and view the results of the Certify processes from within SAP Solution Manager.

You will be able to leverage SAP and Worksoft Best Practices for the following:

◆ Test organization

◆ Test execution

◆ Test package status analysis

Solution Manager contains test assets and links to the business processes to be validated, and Certify contains the automated and manual test processes, as well as the associated test assets to enable test automation.

As your test processes are defined and documented in Certify, you may want to link them back to SAP Solution Manager in order to have:

◆ An original inventory of business processes

◆ A central point of project governance

Test Results

Also, if you integrate Solution Manager with Certify, then test results are returned to both Certify and Solution Manager. You can store all results in a single repository in Solution Manager and ensure that the business requirements have been met by viewing your test packages and Test Workbench.

The Test Workbench provides a high-level view of the automation results in Solution Manager. You can check at any time the progress of individual test cases or an entire test package with the Test Workbench.

Certify and Solution Manager Link

Certify test processes are linked to the business processes in Solution Manager. From Solution Manager, you can:

◆ Create new Certify processes

◆ Edit existing Certify processes

◆ Execute Certify processes by invoking Certify for execution

◆ Review test results

You will need to have business processes already created in Solution Manager in order for you to integrate with Certify.

For more information about setting up the integration, see the *Worksoft Certify Integration with SAP Solution Manager Installation Guide*.

Worksoft Certify Integration with SAP Solution Manager

Chapter 2   Creating a Test Configuration in Solution Manager

In This Chapter

Overview

After you have configured your SAP Server and Worksoft Certify, you will now create a test configuration in SAP Solution Manager that will link to test processes in Certify. This chapter shows how to create a test configuration that you will need to integrate Solution Manager to Certify. When you create the test configuration, an internal test script that links Certify to the Solution Manager is automatically created.

Creating a Test Configuration in Solution Manager

This procedure assumes that you have already created business processes in Solution Manager.

The table below lists each element and the value that will be used in this guide's example test configuration process.

Element	Value
Certify Project	IntegratedSAP
Certify Process	ZCREATE_SALES_ORDER
Test Configuration	ZCREATESALESORDER
Internal Test Script	ZCREATE_SALES_ORDER
System Data Container	Z_RFT_SDC_DEV_AND_TEST
Solution Manager Business Process	Create Standard Sales Order

Your test configuration name must begin with the letter "**Z**."

▶ *To create a test configuration:*

1   Before you link your Certify process to the Solution Manager script, Certify must be pointing to the database that contains the specified Solution Manager project.

     IntegratedSAP is the default value for the Solution Manager project. A Certify administrator adds this value when configuring Certify for integration. For more information, see the *Worksoft Certify Integration with SAP Solution Manager Installation Guide*.

2   Log on to your Solution Manager.

The SAP Easy Access Solution Manager screen appears.
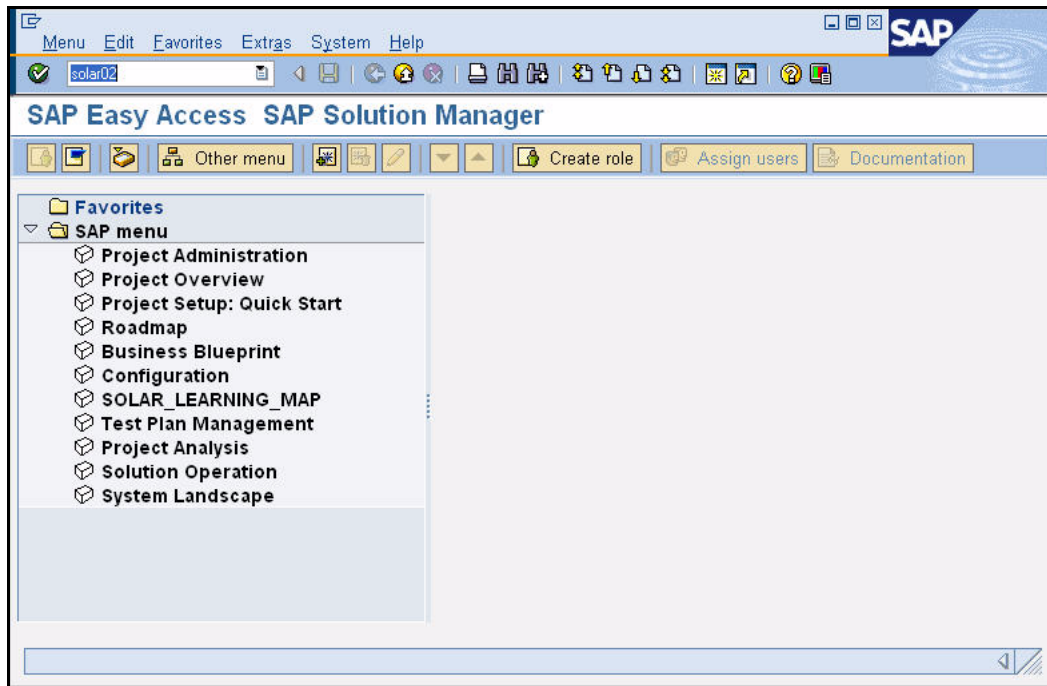
3 Type the transaction code **solar02** in the Command field or select **Configuration** from the SAP menu.

4 Press **<Enter>**.

The Configuration Change for your project screen appears.
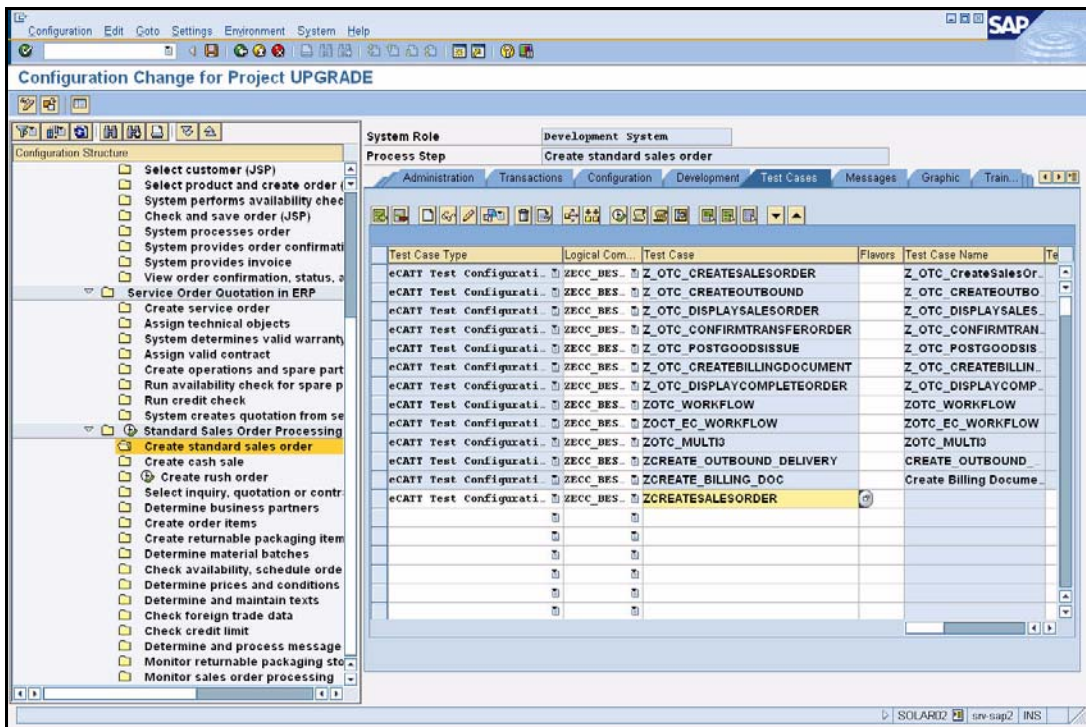
5 In the Configuration Structure tree, select the business process to which you want to add the test configuration.

6   Click the **Test Cases** tab.

7   In the Test Case Type column, select the entry that corresponds to Certify.

8   In the Test Case column, type in a test configuration name that begins with the letter "**Z**".

         You will now create the object for the configuration.

9   Click the **Create** button.

         The Create Test Configuration screen appears.

10   Click the **Attributes** tab.

11   Click the **General Data** tab.

12   In the General Data tab, type the test configuration title in the Title field.

13   In the Person Responsible field, select the owner.

14   In the Component drop-down list, select the appropriate component for your test and click the **Choose** button.

15   Leave the remaining fields blank.

16   Click the **Configuration** tab.
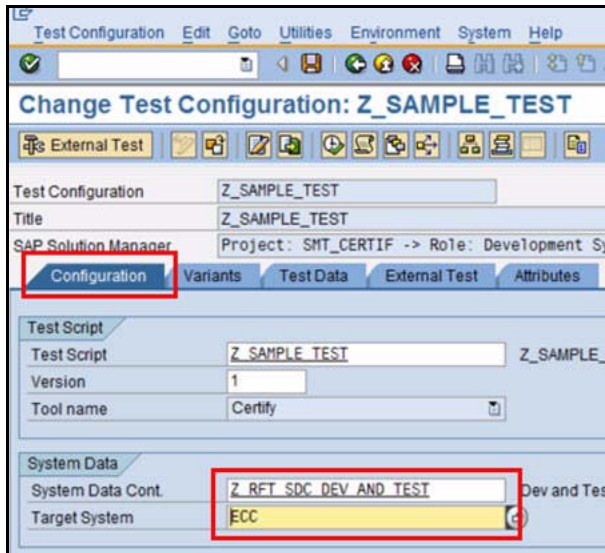
17   In the System Data Container field, select the container to be tested.

18   In the Target System field, select the system to be tested.

19   Click the **Save** 🖫 button.

The Create Object Directory Entry dialog box appears.
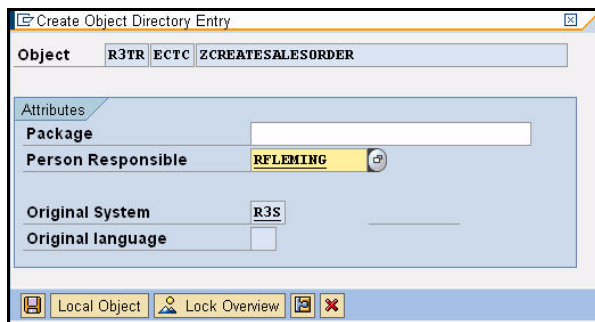
Note: *Depending on the RFC connection in some systems, this dialog box may not appear because of user configuration. If it doesn't appear, proceed to the next step.*

20   Verify the information in the dialog box.

21   Click the **Local Object** button.

22   Click the **Save** 🖫 button to save the test configuration.

You will now create your Certify process.

Worksoft Certify Integration with SAP Solution Manager

Chapter 3   Creating Processes

In This Chapter

Overview

After you have created a test configuration in Solution Manager that will link test processes in Certify, you are now ready to create processes. Certify has added features for users to support the integration.

Certify Processes Summary Pane

Two Solution Manager right-click menu options appear in the Certify Processes Summary pane:

Option	Description
Load Process From SAP	To load a process associated with SAP Solution Manager, you will need to provide the following information: • Test script name and version • Connection information, including RFC parameters
Unlink Process From SAP	Unlink the process from your SAP system.

Certify Process and Data Editor

Within the Certify Process and Data Editor, you are able to do the following tasks from the SAP menu:

Option	Description
Load Test Script	Load and edit a process associated with Solution Manager. You will need to provide a test script name and version, as well as RFC information that is needed to connect to SAP. This option is enabled if the Process and Data Editor was started from Certify.
Save and Return to SAP	Save your process changes and return control to SAP. This option is enabled if the Process and Data Editor is launched from Solution Manager.
Save and Continue	Save your process changes and continue editing the current process. This option is enabled if the Process and Data Editor is launched from Solution Manager.
Save to SAP (Initially)	Save your process changes to SAP. This option is enabled if the Process and Data Editor was started from Certify.

Option	Description
Return to SAP	Return to SAP.
	If there are any unsaved changes, you will be prompted to save them or not.
	This menu option is enabled if the Process and Data Editor is launched from Solution Manager.
Edit Certify Parameters	Create a list of parameters that are exchanged between eCATT and Worksoft Certify.
	For more information, see "Exchanging Complex Data with eCATT" on page 18.
Edit SAP Parameters	Close Certify and control is returned to SAP to allow you to edit structured parameters. After you have completed your editing, control is returned to Certify where you will continue to construct your process.
	For more information, see "Exchanging Complex Data with eCATT" on page 18.
Map SAP Parameters	Map structured parameters to Certify layouts and variables.
	For more information, see "Exchanging Complex Data with eCATT" on page 18.
Show Test Script Details	View the details about the test script and RFC connection.
	This menu option is enabled if the Process and Data Editor is launched from Solution Manager.
Show RFC Parameters	View the RFC parameters.
	This menu option is enabled if the Process and Data Editor is launched from Solution Manager.
Password Maintenance	Maintain SAP passwords for system data container users. For ore information, see "Maintaining Passwords with the Logon SDC Action" on page 22.

Saving Existing Certify Processes to Solution Manager

With Solution Manager integration, you are able to save existing Certify processes to Solution Manager.

▶ *To save your existing Certify process to Solution Manager:*

1 In the Certify Processes window, open up an existing Certify process.

The Process and Data Editor appears.

2 In the SAP menu, select **SAP > Save to SAP (Initially)**.
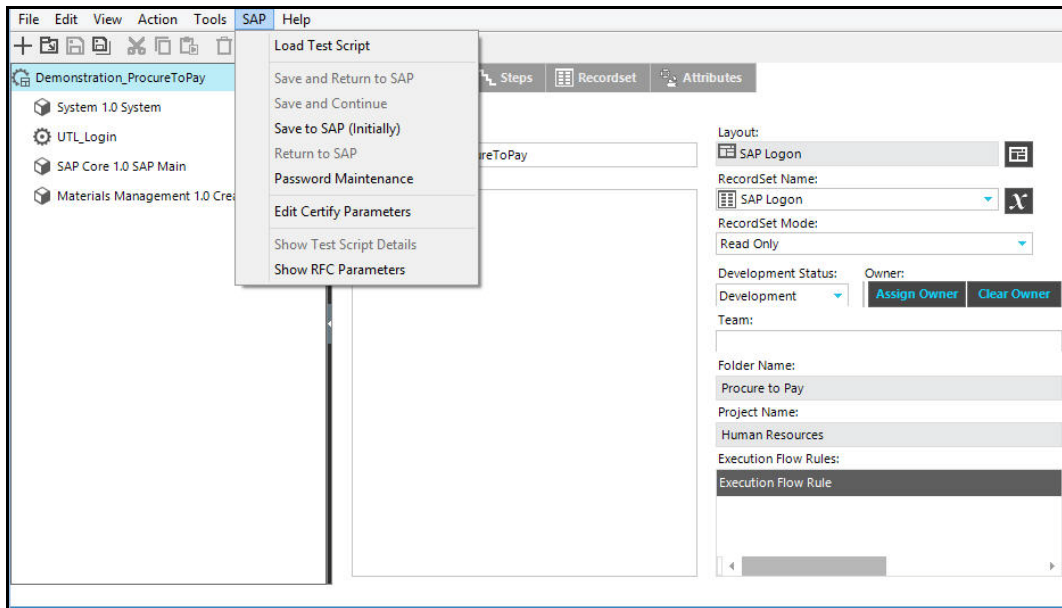
The Save Test Script dialog box appears.
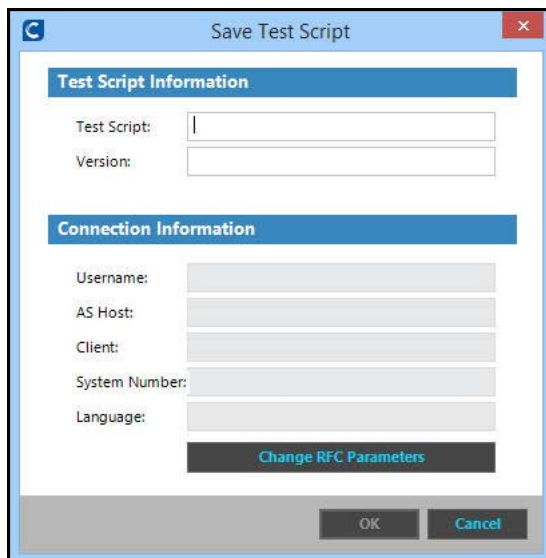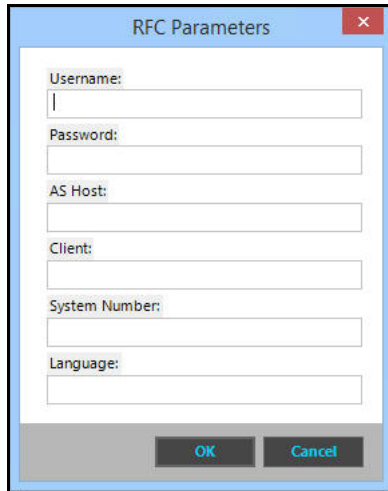
3   In the Test Script text field, type in a test script name.

4   In the Version text field, type in the script version.

5   Click **Change RFC Parameters**.

The RFC Parameters dialog box appears.

6   Type in the following information:

- • User name
- • Password
- • Host
- • Client
- • System Number
- • Language

7   Click **OK**.

The Save Test Script dialog box appears with the RFC connection information.

8   Click **OK**.

Your test script is saved.

Creating Certify Processes in Solution Manager

After your integration, you are able to launch the Certify Process and Data Editor from Solution Manager to create Certify processes.

▶ *To create Certify processes in Solution Manager:*

1   In the Solution Manager Navigation toolbar, click the **External Test** button to open Certify.
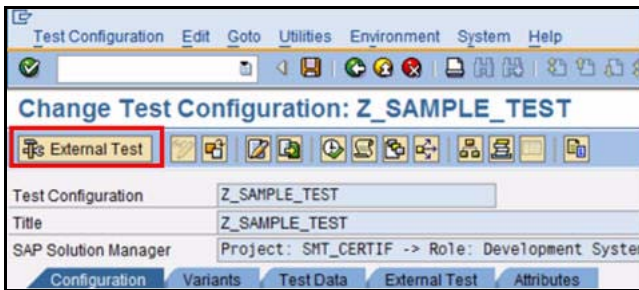
The User Entries for the External Tool dialog box appears. This dialog box allows you to log into Certify.
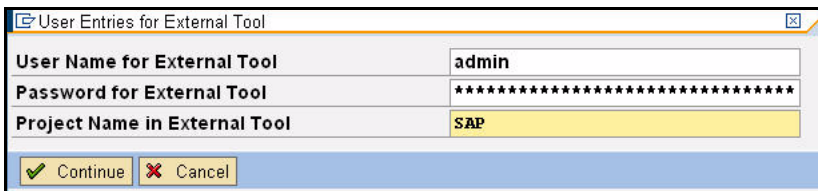
2   Type in the following information:

Field	Value
User Name for External Tool	Certify user name
Password for External Tool	Password for the Certify user
Project Name for External Tool	Certify project name

3   Click the **Continue** button.

The Certify Process and Data Editor opens.

4   Add steps to your new process or edit your existing process. For information on how to add steps to processes, see the *Certify Online Help*.

5   After you have completed updating your process, select **SAP > Save and Return to SAP** from the Certify Process and Data Editor menu.

The Process and Data Editor closes, and the SAP Create Object Directory Entry screen appears with populated information.
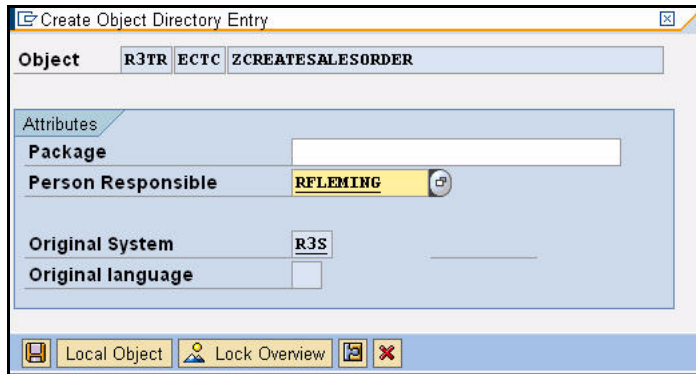
6   Verify the information and click the **Local Object** button.

7   After returning to SAP, click the **Back** button to return to the business process step in Solar02.

You are now ready to execute your process in Solution Manager.

Exchanging Complex Data with eCATT

The following menu options allow you to exchange complex data between Worksoft Certify and eCATT:

◆   Edit Certify Parameters

◆   Edit SAP Parameters

◆   Map SAP Parameters

During process execution, Certify normally receives data from the Certify database. For mapped assets, values will come from data provided by SAP, and the values in the Certify database will be ignored.

A recordset in Certify is a table of data from the Certify database. During process execution, a copy of the recordset is made in memory, and actions are performed against it. For mapped recordsets, Certify will interrogate the data supplied by SAP, and it will build an in-memory copy from the SAP-supplied data.

If a table in SAP contains child tables that are mapped to a different recordset than the parent table, then when a row is advanced in the parent table, a different set of child records will be used. The child recordsets are cleared and forced to pull their data again. This process allows the child recordset to be refreshed within the context of the correct parent row.

Editing Certify Parameters

When you select the **Edit Certify Parameters** option in the SAP menu, the Certify Parameters dialog box appears.

Selected Parameters Pane

The Selected Parameters pane displays the parameters exchanged between eCATT and Worksoft Certify. You are able to add or remove parameters by selecting the option from the right-click menu or clicking the dialog box's **Add Parameter** and **Remove Parameter** buttons.

Parameters that were authored in Certify can be added or removed.

You are unable to edit or remove parameters that were authored in SAP. Parameters authored in SAP will appear in the list if they exist. These parameters will display **custom** in the Default Value and Type columns.

Candidates Pane

The Candidates pane lists variables that may be used as parameters. Click the **Refresh Candidates** button to refresh the variables list. Variables that will be added to the Candidates pane must meet the following criteria:

◆ Variable is not already in a parameter list.

◆ Variable is not mapped to part of a complex parameter.

To make a variable into a parameter, select a variable candidate and click the **Make Parameter** button. The candidate now appears in the Selected Parameters pane.

Mapping SAP Parameters

When you select the **Map SAP Parameters** option in the SAP menu, a dialog box for mapping structured parameters to Certify layouts and variables opens.

The Map SAP parameters dialog box consists of the following five columns:

Column	Description
Match	The Match column will be empty or will show one of the following icons:
	This icon appears after mapping has completed, and the parameter is matched to a Certify asset.
	This icon appears when the mapping has been edited. It identifies the changes that will be saved when you click the **OK** button.
	If no icon appears, then a Certify asset has not been mapped to this entry.
Name	This column displays the SAP name of the complex item.
Asset Name	This column displays the name of the Certify asset that is mapped. You will select the asset from a drop-down list or a pop-up dialog box.
	If the Certify asset is a variable, the variable name is listed. If the asset is a recordset, then the layout name and recordset name are listed and separated by a colon.
Asset Type	This column identifies the kind of Certify asset that can be mapped to this SAP asset.
	If the SAP asset is a table or structure, then it can be mapped to a layout and recordset. If the SAP asset is a field, then it can be mapped to a variable.
Description	This column displays the description from the SAP data dictionary for the related SAP asset.

Selecting Asset Names

To map your SAP parameters, you will need to select a name from the Asset Name drop-down list. The Asset Name lists are dependent on the Asset Type column.

If the asset type is **Layout and Recordset**, the drop-down list contains the following:

◆ Current mapping to a layout and recordset

◆ An empty value so that the mapping may be cleared

◆ Option to select your recordset from the Select Recordset dialog box

   When you select this option, the dialog box opens.

If the asset type is **Variable**, the drop-down list contains the following:

◆ Current Mapping to a variable

◆ An empty value so that the mapping may be cleared

◆ Option to select your variable from the Select Variable dialog box

   When you select this option, the dialog box opens.

If this variable is part of a table that is mapped to a layout and recordset, the drop-down list will also include all of the variables in the layout so that you are able to map to an SAP table.

Using Certify System Actions for SAP Solution Manager

System classes and actions are available across all platforms and supplied with every Certify installation. The System class **Solman** provides actions for Solution Manager processes. You must launch the Certify Process and Data Editor from the Solution Manager in order to create steps with the following actions:

◆ TBOM Trace

◆ Set Returned PDF

◆ Logon SDC

TBOM Trace Action

The TBOM Trace action is used to turn on and off Technical Bill of Materials tracing during a Certify process execution. For more information, see Chapter 5, "Executing Certify from Solution Manager," on page 28.

Set Returned PDF Action

The Set Returned PDF action is used to control the type of PDF document returned from Certify to SAP at the end of an execution. A PDF document will only be generated and transferred only if the Transfer Log option is selected in SAP. A step with this action can appear anywhere within the process.

Logon SDC Action

The Logon SDC action is used to log on to SAP systems using information provided in a system data container.

Parameter	Description
System	This parameter is a combo box. System data containers may contain information about more than one system. You will select a system from the system data container. If you select **Default** as the value, then the system marked as the default system is selected.
User	This parameter is a combo box in which you are able to use values typed into this parameter. Each entry in the system data container has a user associated with it. If you select **Default** as the value, then Certify will use the user associated with the selected system data container.
Certify Maintained Password	This parameter is a combo box with the values **True** and **False**. SAP does not provide passwords to Certify, but passwords are required when you log on. If the value is **True**, then the password will be extracted from a table maintained in Certify. For more information, see "Maintaining Passwords with the Logon SDC Action" on page 22. If the value is **False**, then the Password parameter is used.
Password	This parameter is a text box. The Password parameter is used only if Certify Maintained Password parameter is set to **False**.
Destination Type	This parameter is a combo box. The values for this parameter are **Default**, **RFC**, and **HTTP**. Each system data container entry allows you to log on to an SAP GUI session, an HTTP session, or both sessions. Typically, a system data container entry will have only one destination type, and the value you should select is **Default**.
Report Type	This parameter is a combo box. The values for this parameter are • Results - Detail • Results - Summary • Results - Recordset The generated PDF will correspond to the report type that you select.

Maintaining Passwords with the Logon SDC Action

SAP does not provide passwords to Certify, but passwords are required when you log on to a system within a system data container. The user name can come from a system data container, but the password does not.

When you have a step that uses the **Logon SDC** action, you will need to maintain the passwords for system data container users within Certify. The SAP Password Maintenance dialog box in Certify allows you to maintain these SAP passwords. You will indicate if the password will be extracted from this dialog box with the **Certify Maintained Password** parameter of the Logon SDC action.

You are able to access this dialog box in the Process and Data Editor menu bar **SAP > Password Maintenance**.

The SAP Password Maintenance dialog box contains a single table that shows the passwords maintained in Certify. Within the context menu, you are able to add, remove, or export passwords. When you select **Add New Entry**, a row appears in the table, and you are able to type in a new password. Each row has the following fields:

◆ Description

◆ User name

◆ Client

◆ System number

◆ Server

◆ System ID

◆ Group

◆ Destination type

◆ Password

◆ Port

Details from the selected system data container will be compared against entries in this table. If a matching entry is found, then the password from that matching entry will be used in the Logon SDC step.

Different combinations of fields are checked:

◆ HTTP destination must match user name, server, and port.

◆ RFC must match.

◆ User name and system ID must match or user name, server, and system number must match.

Chapter 4 Creating a Technical Bill of Materials Using Certify

In This Chapter

Overview

In order to create a Technical Bill of Materials (TBOM) process, you will need to do the following:

◆ Select test configurations

◆ Create a test plan and test package

◆ Execute the test package

◆ Create a TBOM process

Selecting Test Configurations

Before creating a TBOM process, you will need to select test configurations in SAP Solution Manager. The Certify process must be called from a test configuration that has a system data container assigned to it.

▶ *To select test configurations in Solution Manager:*

**1** In the SAP GUI, type the transaction code **solar02** in the Command field.

2 Press **<Enter>**.

The Configuration Change for your project screen appears.
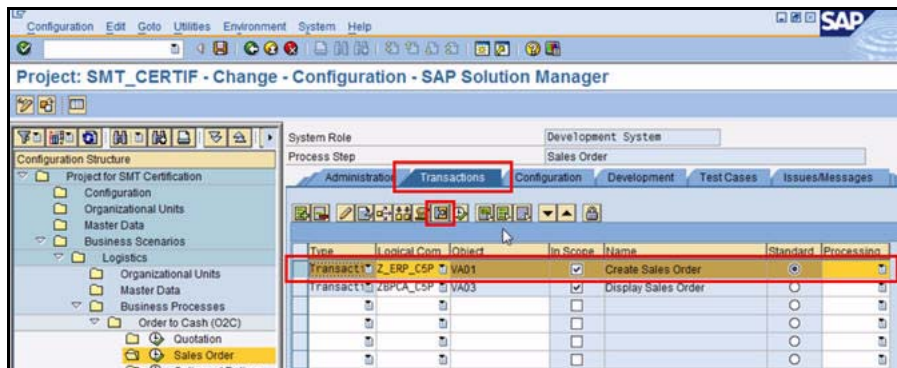
3 In the Configuration Structure tree, select the business process where the test configuration is located.

4 Click the **Transactions** tab.

5 In the Transactions tab, select one of the transactions.

6 Click the **Attributes** button.

The Attributes Maintenance dialog box appears.
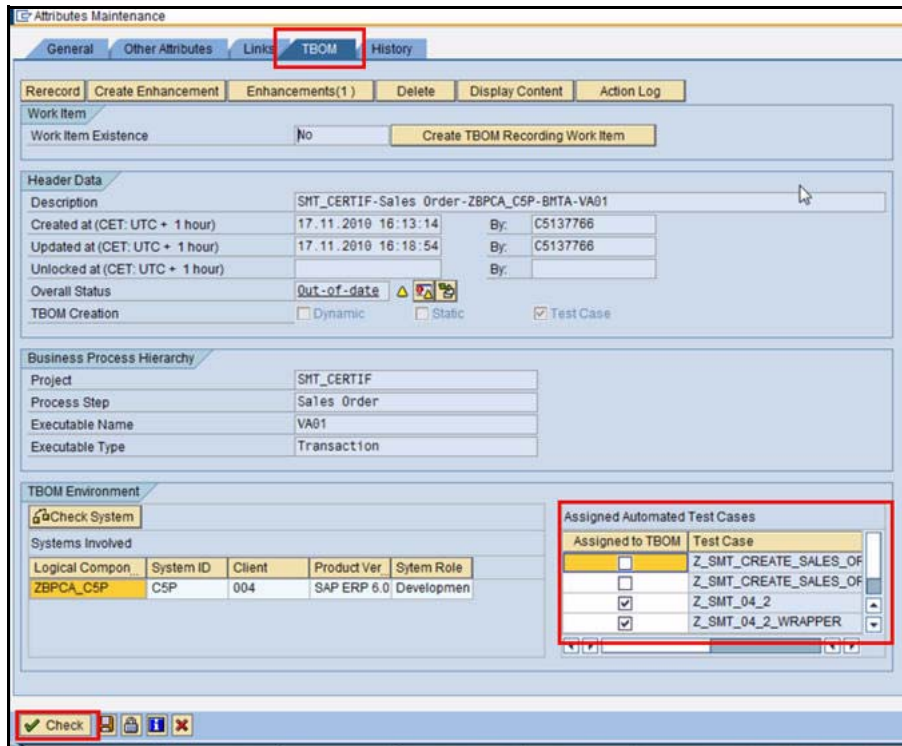
7 Click the **TBOM** tab.

8 In the lower right corner, select one or more test cases assigned to this business process step that are set up to record TBOM processes.

9 Click **Check** to accept the changes.

Creating a Test Plan and Test Package

TBOM creation is performed when running test packages. Follow your existing procedures to create test plans and test packages. Also, you will need to assign test packages to users for execution.

Executing a Test Package

When you execute a test package, you will see a new option in the Start Options dialog box. You may have to scroll down to see the Activate TBOM Recording option.
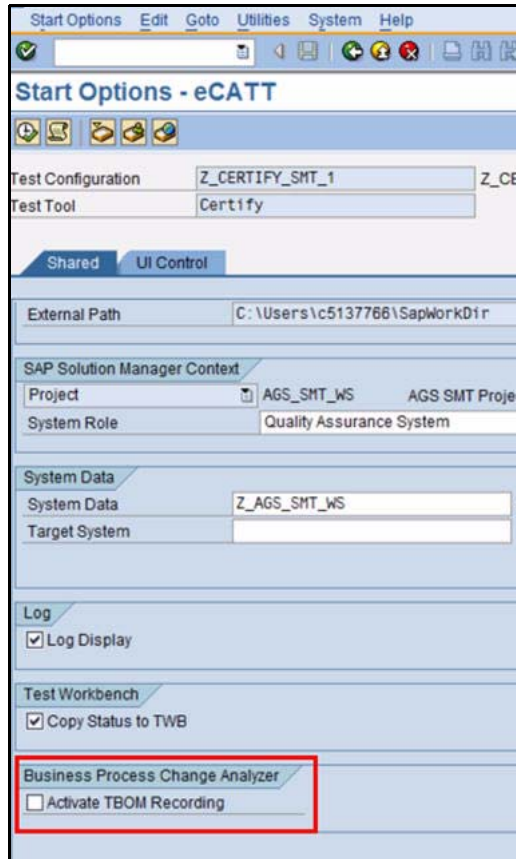
If the Activate TBOM Recording option is selected, and the test is set up to generate a TBOM, then TBOM information will be collected while the test is running.

You are now ready to create your TBOM process.

Creating a Technical Bill of Materials Process

You must launch the Certify Process and Data Editor from the Solution Manager in order to create a TBOM process.

You will use the Certify System Solman action **TBOM Trace** for your processes. The TBOM Trace action is used to turn on and off the TBOM tracing during a Certify process execution. At the beginning of your process, add a step with the TBOM Trace action to turn on the TBOM recording against the system of interest. At the end of your process, add a step with the TBOM Trace to turn off the TBOM recording.

If Solution Manager indicates that tracing is turned off, the step with this action will always pass. If Solution Manager indicates that tracing is turned on, the step with this action will try to turn on tracing in the selected back end system identified in the system data container.

TBOM Trace Parameters

Listed in the table below are the parameters for the TBOM Trace action:

Parameter	Description
System	This parameter is a combo box. System data containers may contain information about more than one system. You will select a system from the system data container. If you select **Default** as the value, then the system marked as the default system is selected.
User	This parameter is a combo box in which you are able to use values typed into this parameter. Each entry in the system data container has a user associated with it. If you select **Default** as the value, then Certify will use the user associated with the selected system data container.
Start/Stop	This parameter is a combo box with values of **START** and **STOP**. It will turn on tracing for a selected system/user combination. You must stop tracing on one system before you are able to start tracing on another system.
Destination Type	This parameter is a combo box. The values for this parameter are **Default**, **RFC**, and **HTTP**. Each system data container entry allows you to log on to an SAP GUI session, an HTTP session, or both sessions. Typically, a system data container entry will have only one destination type, and the value you should select is **Default**.

Chapter 5   Executing Certify from Solution Manager

In This Chapter

Overview

After you have configured Solution Manager and Certify, created a test configuration, and created your scripts, then you are ready to execute your Certify process from Solution Manager. You can execute either your test configuration or your eCATT script for results.

Also, you can execute your Certify processes from Solution Manager test packages and your Test Workbench, as well as review detailed results.

Executing Your Test Configuration

From the Objects tree, you will execute your test configuration.

▶ *To execute your test configuration:*

1   Before you can execute processes in Solution Manager, you will need to be logged on to the SAP machine that you will be testing.

2   In the Objects tree, right-click on the your test configuration and select **Execute** or select the test

configuration and click the **Execute Test Configuration**   button.

The Start Options Test Script screen appears.
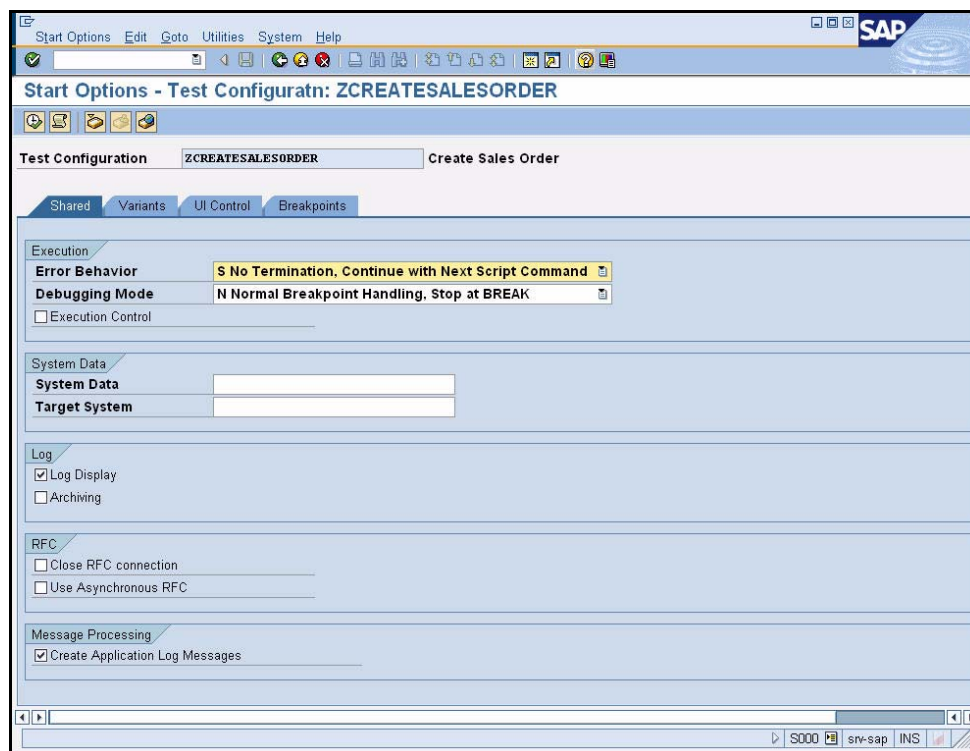
3   For Error Behavior field, select the option **No Termination, Continue with the Next Script Command** in the drop-down list.

4   In the Debugging Mode field, select an option from the drop-down list.

5   If you do not want to view the Certify UI as the process runs, click the **Execute** button.

If you do want to view the Certify UI, go to "Viewing the Certify UI During Test Execution" on page 31.

The User Entries for External Tool dialog box appears.
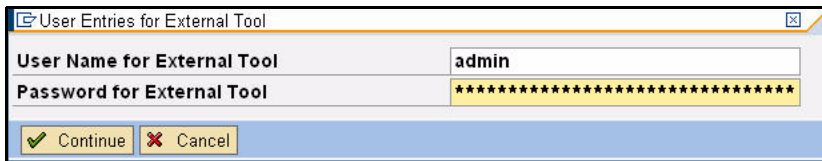
This dialog box is where you input your Certify logon information.

6   Type in the following information:

Field	Value
User Name for External Tool	Certify user name
Password for External Tool	Password for the Certify user

7   Click the **Continue** button.

The test begins to run, and this execution may take some time to complete.

After the test completes, the Certify Result Viewer appears with the test configuration results.

Viewing the Certify UI During Test Execution

You are able to select the option to view the Certify UI during the test execution.

▶ *To view the Certify UI while executing your test configuration:*

1 Before you can execute processes in Solution Manager, you will need to be logged on to the SAP machine that you will be testing.

2 In the Objects tree, right-click on the your test configuration and select **Execute** or select the test configuration and click the **Execute Test Configuration** button.

The Start Options Test Script screen appears.
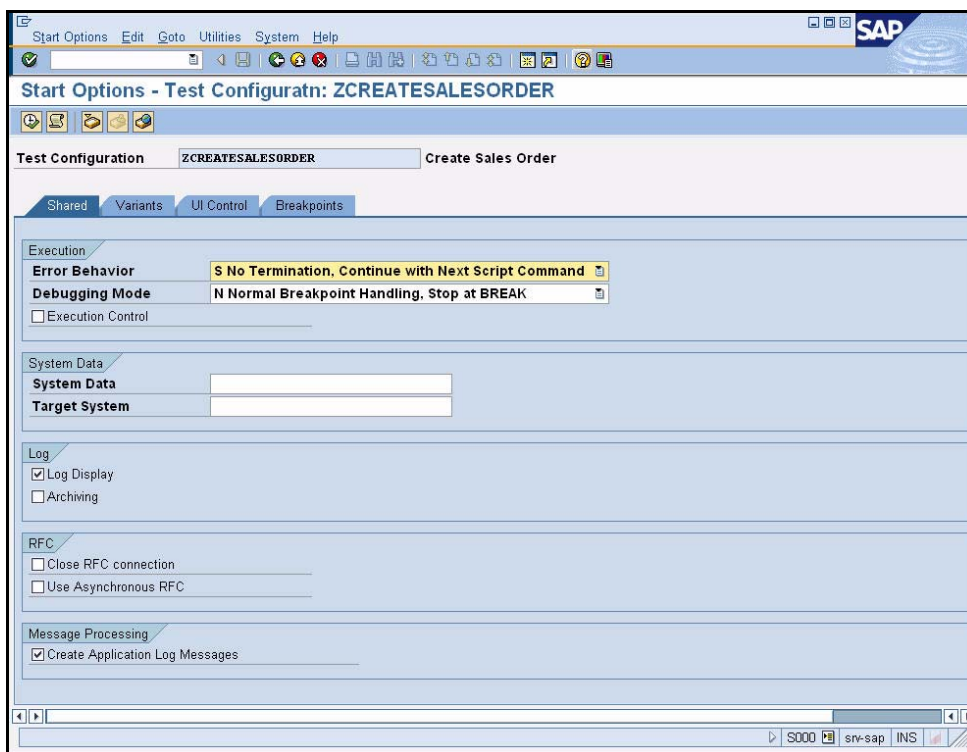
3 For Error Behavior field, select the option **No Termination, Continue with the Next Script Command** in the drop-down list.

4 In the Debugging Mode field, select an option from the drop-down list.
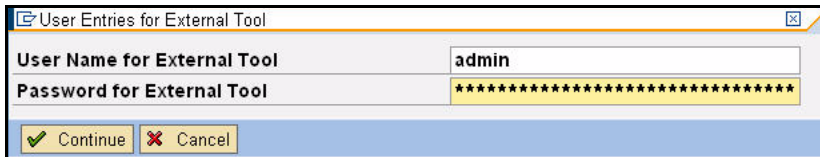
5 Click the **UI Control** tab.

The UI Control tab appears.
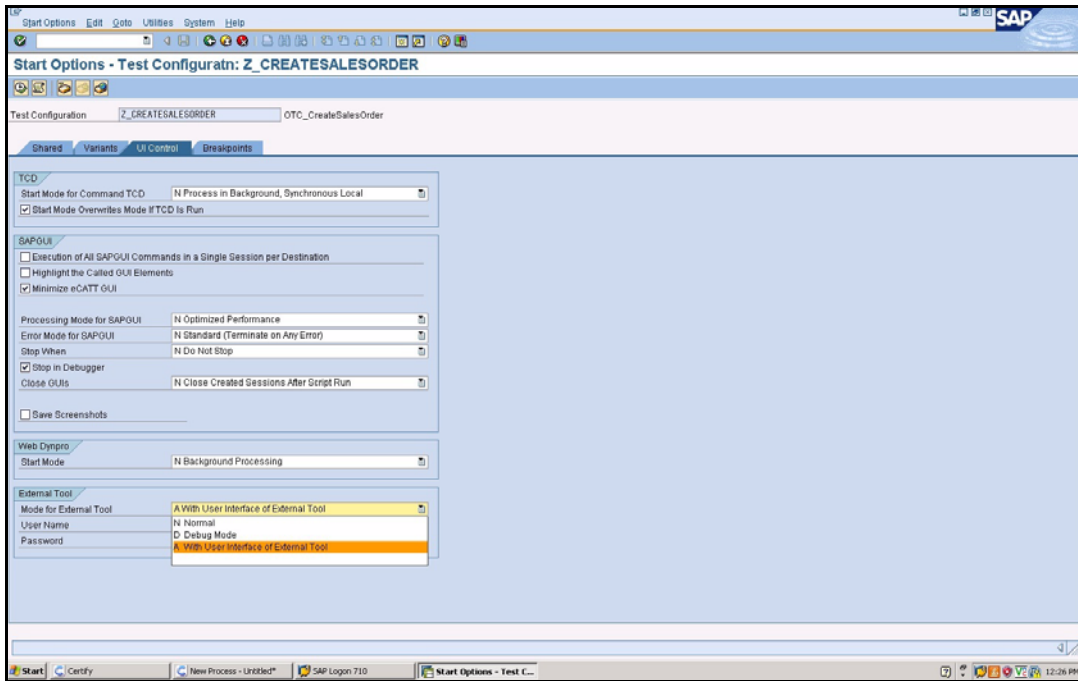
6   In the External Tool section, select With **User Interface of External Tool** from the Mode for External Tool drop-down list.

7   Click the **Execute** [icon] button.

The User Entries for External Tool dialog box appears.

This dialog box is where you input your Certify logon information.

8   Type in the following information:

Field	Value
User Name for External Tool	Certify user name
Password for External Tool	Password for the Certify user

9   Click the **Continue** button.

The Certify Configuration dialog box appears auto-populated with your process information.

10   Click the **Start** button.

The Certify Execution dialog box appears.

11   Click the **Run** button.

The process is executed, and the Certify Result Viewer appears with the results.

Viewing Test Results

Test results are stored and can be viewed in both Solution Manager and Certify.

Viewing Test Results in Solution Manager

The test configuration appears at the top of the log. Drill down into the test script to see details of the Certify process steps.

View the log entries by the pass/fail status. If a parent node has a red icon, then the procedure failed; however, the child nodes still appear with green icons. You should look for the failed step at the lowest step level.
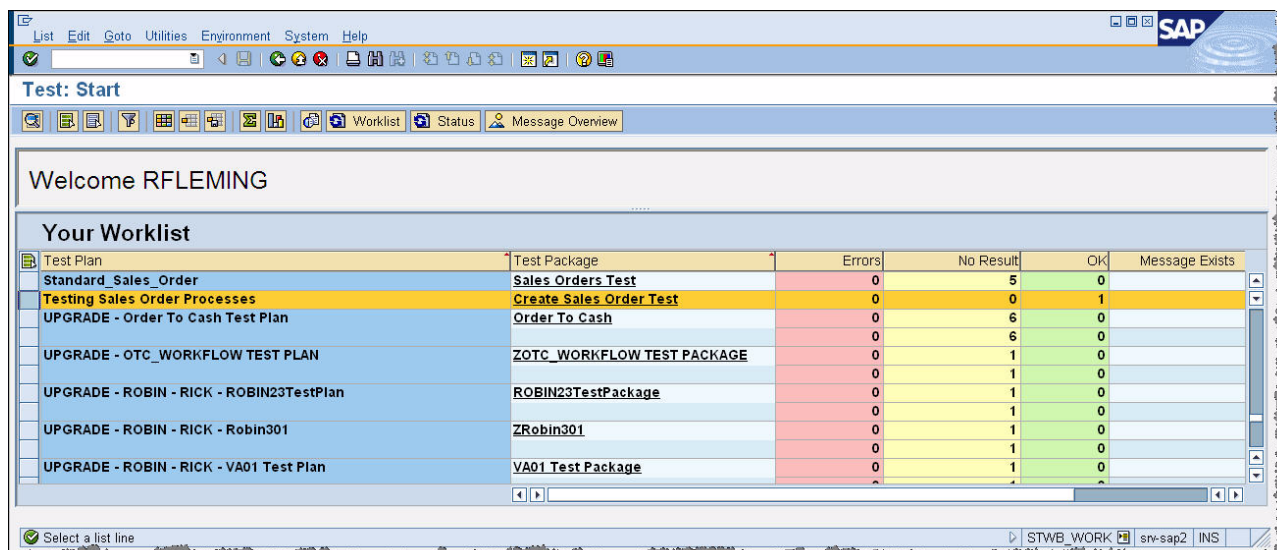
Viewing Test Results in Certify

To view the detailed test results in the Certify Results Viewer, click the **UNCPathToLocalLog Entry** value in the Solution Manager test results, and the Certify Results Viewer opens.

Executing Test Packages and Viewing Test Results

With test packages, you can view test results from the integrated script and assign testers to execute these Certify processes in Solution Manager. These test results can then be viewed in the Test Workbench.

Viewing Test Results in the Test Workbench

The Test Workbench provides a high-level view of the automation results in Solution Manager. You can check at any time the progress of individual test cases or an entire test package with the Test Workbench.
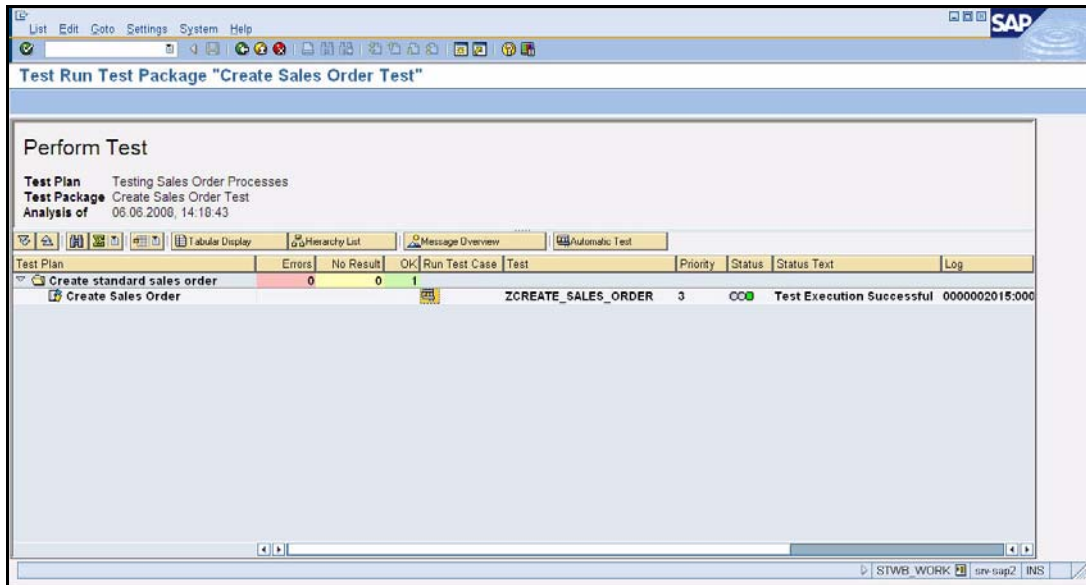

To view more detailed results, click on the test package.

The Test Run Test Package screen appears.

The Test Run Test Package screen allows you to view the test results status, as well as open the detailed results. To view detailed test results, click the test package value in the **Log** column. Detailed test results appear in the Certify Result Viewer.

Executing Test Packages

In the Test Run Test Package screen, you can execute test packages that contain Certify processes by clicking

the **Automatic Test** button or the **Test Automatically** [icon] icon under the Run Test Case column. For more detailed steps on executing processes, see "Executing Your Test Configuration" on page 29.

Appendix A   Error Messages

User Authentication Error Messages

Certify will not authenticate the user against the Certify database:

◆ If an invalid user name is supplied, then Certify will display the message, "Invalid user name: xxx," and Certify will return a code to eCATT indicating invalid user.

◆ If an invalid password is supplied, then Certify will display the message, "Invalid password," and Certify will return a code to eCATT indicating invalid password.

◆ If there is any other error, then Certify will return a code indicating unknown error.

Project Validation Error Messages

Certify shall not validate the project:

◆ If the project does not exist, then Certify shall display the error message, "Project xxx does not exist," and Certify will return a code indicating unknown error.

◆ If the project exists, but the user does not have permissions to edit processes in the project, then Certify display the error message, "You do no have permissions to edit processes in project XXX," and Certify will return a code indicating invalid permissions.

◆ If there is any other error, then Certify will return a code indicating unknown error.

Process Validation Error Messages

Certify shall not validate the process:

◆ If the process is found in a different project, then Certify will display the error message, "This process was found in project xxx, not yyy. Specify project xxx or change the existing Certify process to avoid a collision." Certify will then return a code indicating unknown error.

◆ If you open an existing Process and do not save, then you will not be able to connect to eCATT. If Certify cannot connect to eCATT, the Certify will display the error message, "Cannot connect to eCATT using RFC," and Certify will return a code indicating RFC error.

◆ If there is any other error, then Certify will return a code indicating unknown error.

Process Execution Error Messages

Certify shall display error codes:

◆ If the execution status is failed or aborted, then Certify will return a code indicating execution failed.

◆ If Certify has trouble connecting to eCATT to store results, then Certify will display the error message, "Cannot connect to eCATT using RFC," and Certify will return a code indicating RFC Error.

◆ If any other error occurs, then Certify will return a code indicating unknown error.

Worksoft Certify Integration with SAP Solution Manager

Appendix B   Troubleshooting

This Appendix provides guidance on how to troubleshoot your integration between Worksoft Certify and SAP Solution Manager.

Resolving Password Errors

When trying to save a process in Certify and returning to Solution Manager, you may get a user name and password error.
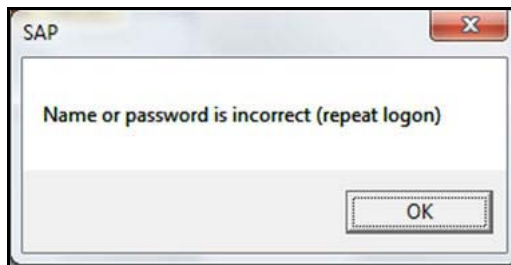
User names are not case-sensitive, but passwords are case-sensitive. The ABAP code in Solution Manager uses the well-known password **ecatt_et**. The password must be lower case.

▶ *To disable the Certify password feature:*

1   Before you enable detailed logging, you must shut down Certify and all SAP GUI sessions.

2   Use the Windows Task Manager to verify that the **wsecattwrapper.exe** process is not running. If this process is running, turn it off.

3   Locate the Certify configuration file that is located in the following directory:

```
C:\Program Files (x86)\Worksoft\Certify\Client\Worksoft.Certify.exe.config
```

4   Open the **Worksoft.Certify.exe.config** file in Notepad or another text editor.

5   In the configuration file, scroll down to the **<appSettings>** section.

6   Just beneath the **<appSettings>** tag, copy and paste the following line into the configuration file:

<add key="LeaveEcattPasswordUnchanged" value="True" />

Example:

```
<appSettings>

        <add key="LeaveEcattPasswordUnchanged" value="True" />
```

7   Save the updated configuration file.

Solution Manager Submits Wrong Password to Certify

Worksoft is working with SAP to discover why Solution Manager sometimes submits a wrong password to Certify. If this occurs, you are able to workaround this problem by adding an entry to the Certify configuration file.

▶ *To workaround Solution Manager submitting wrong password:*

1   Before you enable detailed logging, you must shut down Certify and all SAP GUI sessions.

2   Use the Windows Task Manager to verify that the **wsecattwrapper.exe** process is not running. If this process is running, turn it off.

3   Locate the Certify configuration file that is located in the following directory:

```
C:\Program Files (x86)\Worksoft\Certify\Client\Worksoft.Certify.exe.config
```

4   Open the **Worksoft.Certify.exe.config** file in Notepad or another text editor.

5   In the configuration file, scroll down to the **<appSettings>** section.

6   Just beneath the <appSettings> tag, copy and paste the following line into the configuration file:

<add key="EcattDebugRFCUser" value="ecatt_et_usr" />

<add key="EcattDebugRFCPassword" value="ecatt_et" />

Example:

```
<appSettings>

        <add key="EcattDebugRFCUser" value="ecatt_et_usr" />

        <add key="EcattDebugRFCPassword" value="ecatt_et" />
```

7   Save the updated configuration file.

Certify will now override the values for the user name and password provided by Solution Manager, and it will use the values from the configuration file.

Enabling Certify Detailed Logging

To help you troubleshoot the integration, you may want to enable detailed logging.

▶ *To enable Certify detailed logging:*

1   Before you enable detailed logging, you must shut down Certify and all SAP GUI sessions.

2   Use the Windows Task Manager to verify that the **wsecattwrapper.exe** process is not running. If this process is running, turn it off.

3   Locate the Certify configuration file that is located in the following directory:

```
C:\Program Files (x86)\Worksoft\Certify\Client\Worksoft.Certify.exe.config
```

4   Open the **Worksoft.Certify.exe.config** file in Notepad or another text editor.

5   In the configuration file, scroll down to the **<appSettings>** section.

6   Just beneath the <appSettings> tag, copy and paste the following line into the configuration file:

<add key="VerboseEcattLogging" value="True" />

Example:

<appSettings>

        <add key="VerboseEcattLogging" value="True" />

7   Save the updated configuration file.

Log files will now contain more detailed information.

Testing Connectivity

To test your connectivity, create a new test configuration and a corresponding Certify process. Do not use an existing test configuration.

For example, create a new test configuration from transaction codes **STCE** or **SOLAR02**.

Transaction STCE

If you run transaction STCE, you will need to:

◆   Provide a test configuration name

◆   Select Certify as the external tool
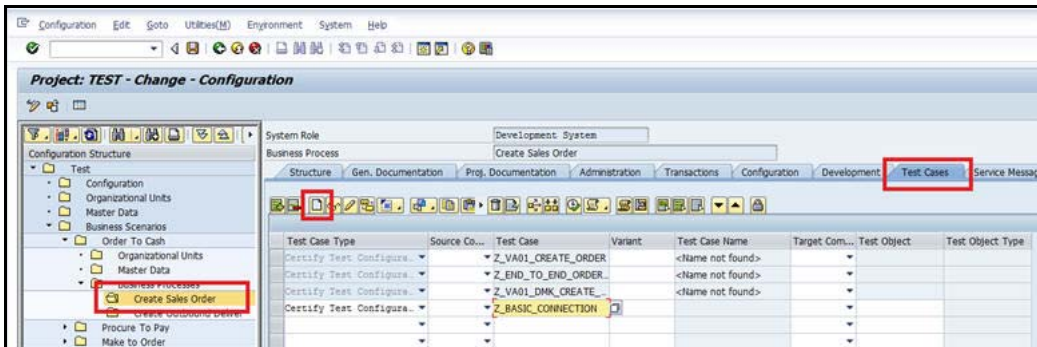
◆   Click the **Create** button.
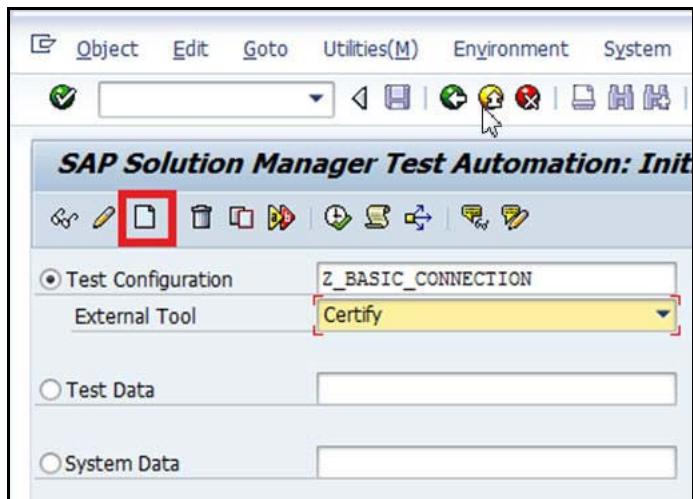
If Certify does not appear as an option in the External Tool drop-down list, then Certify is not properly registered as a third-party test tool.

For the next step, go to "Creating a Test Configuration" on page 40.

Transaction SOLAR02

If you run transaction SOLAR02 you will need to:

◆ Select a node from the business process hierarchy on the left.

◆ Click the **Test Cases** tab in the right pane.

◆ Enter data into an empty row in the table.

◆ Select **Certify Test Configuration** from the Test Case Type drop-down list.

◆ Type in a test case name in the Test Name field.

◆ Click the **Create** button.

If Certify Test Configuration does not appear as an option in the Test Case Type drop-down list, then Certify is not properly registered as a third-party tool.
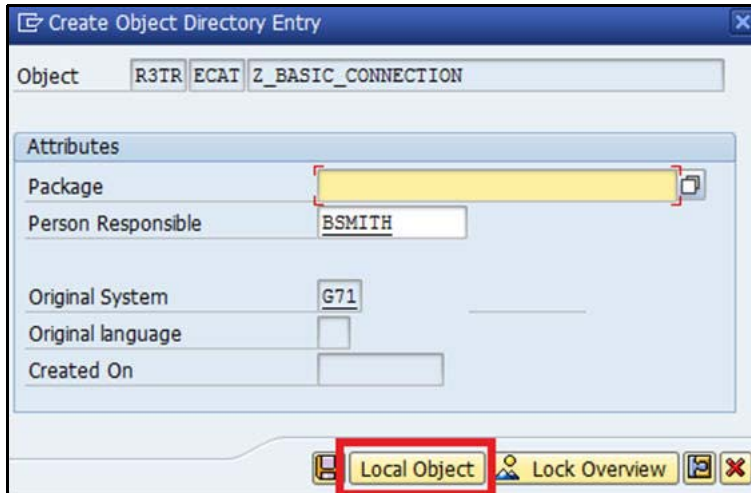
Creating a Test Configuration

After you click the **Create** button from either STCE or SOLAR02, the Create Test Configuration screen appears.
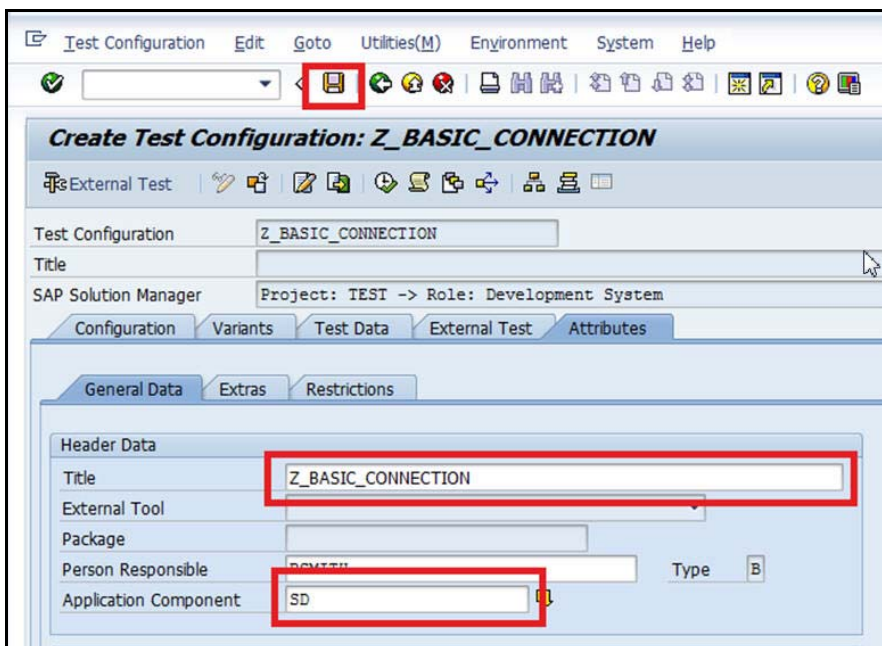
▶ *To create a test configuration:*

1   In the Title field in the General Data tab, type in a title name.

2   In the Application Component field, type in an application component.

3   Click the **Save** button.

The Create Object Directory Entry dialog box appears.

4   Click the **Local Object** button twice to save the test assets.

5   In the Change Test Configuration screen, click the **External Test** button to launch Certify.
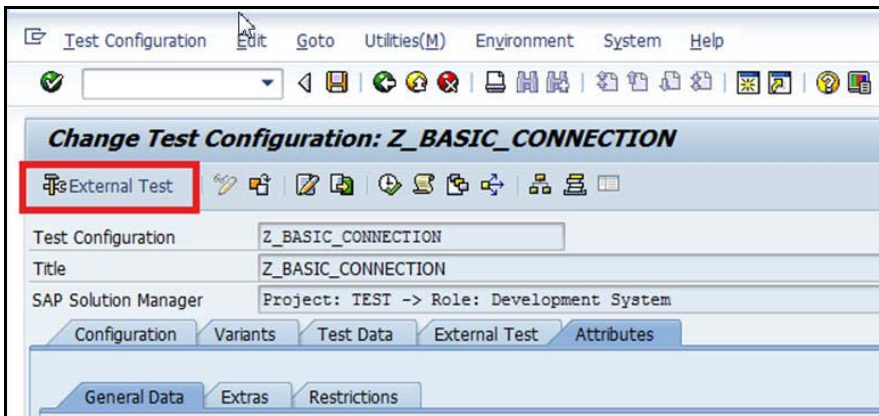
After clicking the **External Test** button, the User Entries for External Tool dialog box may appear.

6   If Certify is registered as a third-party test tool that requires a password, then you will need to provide the following information.

- Certify user name

- Certify password

- Project name where the process will be generated

7   Click **Continue**:

Certify Process and Data Editor opens.

8   Click the **Steps** tab.

9   Create a Comment step.

10   After you have completed creating your step, select **SAP > Save and Return to SAP** from the Certify Process and Data Editor menu.

The Process and Data Editor closes, and the SAP Create Object Directory Entry screen appears with populated information if everything is set up correctly.

Worksoft Certify Integration with SAP Solution Manager

Appendix C   Lights-Out Testing

Setting Up Lights-Out Testing

If you want the capability to execute and automate Certify integrated tests at scheduled times with minimal supervision, then additional configuration is needed.

Registering Worksoft Certify as a Third-Party Tool

When you register Certify as a third-party test tool, you will need to disable the password.

In the Customizing Table for External Test Tools screen, select the **W/o Password** option to disable the password challenge.

Creating a Certify Project

The Certify project name for lights-out testing should be **IntegratedSAP**. You may need to create this specific project in Certify or update the name of an existing Certify project. For information on creating a project or editing a project, see the *Worksoft Certify Online Help*.

If you already have a Certify project or decide to use a project that is not named IntegratedSAP, then additional configuration is required in Certify.

You must be a Certify administrator in order to make this update.

▶ *To configure a Certify project for lights-out testing:*

1   Launch Worksoft Certify.

2   From the Certify menu, select **Tools > Change Global Configuration**.

3   In the DefaultSolmanProject field, highlight the field and type in the name of the Certify project that you want to use in Solution Manager integration.

    If you intend to use IntegratedSAP as your project name, select the **Default** value.

4   Click **OK** to save your configuration.

Updating ECATTUser in Certify

When conducting lights-out testing, the ECATTUser that you created in Certify must have **ECATTUser** as its password.