



User Guide

Worksoft Certify_® Integration with SAP_® Solution Manager

Worksoft Certify Integration with SAP Solution Manager User Guide

Version 7.2 SP14

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Patent

Worksoft Certify® U.S. Patent No. 7,600,220

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Chapter 1 Overview

In This Chapter

Understanding Worksoft Certify and SAP Solution Manager Integration

By integrating Worksoft Certify[®] with SAP[®] Solution Manager v7.2, you can create, edit, execute, and view the results of the Certify processes from within SAP Solution Manager.

You can leverage SAP Solution Manager and Certify for the following information:

- Test organization
- Test execution
- Test package status analysis

SAP Solution Manager has test assets and links to business processes to be validated. Certify has automated processes, manual test processes, and 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 and a central point of project governance.

Test Results

If you integrate Solution Manager with Certify, then test results are returned to both Certify and SAP Solution Manager. You can view these results in Solution Manager and store them in a single repository. By saving the results in a repository, you ensure the business requirements are met.

Within Solution Manager, you can open a PDF file that contains test results and screen captures. This file can be archived for long-term storage for audits and compliance.

Certify and Solution Manager Integration

Certify test processes are linked to test configurations and test scripts 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

Test configurations are defined in Solution Manager, and these configurations point to an internal test script and associated Certify process.



To integrate Certify with SAP Solution Manager, you must have a basic understanding of Solution Manager, and Solution Manager business processes must already have been created. For more information about setting up the integration, see the *Worksoft Certify Integration with SAP Solution Manager Installation Guide*.



Chapter 2

Creating a Test Configuration in Solution Manager

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Overview

After configuring SAP Solution Manager and Worksoft Certify, you will create a test configuration in Solution Manager that will link to test processes in Certify. When you generate the test configuration, an internal test script that links Certify to the Solution Manager is automatically created.

This procedure assumes that you have already created the following items in Solution Manager:

- Business processes
- Scenario and process
- Executable
- Test profile

Creating a Test Configuration in SAP Solution Manager

Before you link your Worksoft Certify processes to the Solution Manager script, Certify must be configured to the database that contains the specified Solution Manager project. Also, you will need access to the Solution Manager project in Worksoft Certify.

IntegratedSAP is the default value for the Solution Manager project. A Certify administrator adds this value when configuring Certify for integration. If your organization used a different project name, you will need the name when creating your test configuration. For more information, see the *Worksoft Certify Integration with SAP Solution Manager Installation Guide*.

To create a test configuration:

- **1** Sign in to SAP Solution Manager.
- 2 Enter the transaction code **sm workcenter** in the Command field.

The SAP Solution Manager Workcenter opens.

ŝ	SAP						
	SAP Solution Mana	ager Configurat To					
	SAP Solution Ma	anager Configurat	tion	i Release Notes SAP Solution Manager Mandatory Configuration Analytics and Dashb			
	Configuration All Scenarios	Installation and Upgrade Guides SAP Solution Manager	Configuration Wiki SAP Solution Manager	Release Notes SAP Solution Manager	Basic Configuration Mandatory Configur	Configuration Analytics and Dashb	
	0	۵	H Ş	Ē	0	Configuration Analytics and Dashb Configuration Analytics and Dashb Configuration Configuration Analytics Configuration Analytics Configuration Analytics Configuration Analytics	
	Test Suite						
	Test Suite Overview	Test Suite Test Preparation	Partner Test Management	My Tasks TBOM Worklist	Business Process Change Analyzer	Scope and Effort Analyzer Upgrade Planning	Test Plan Managerr
	물용	ē	å	Ê	8	⊫_	14
	My Tasks Tester Worklist	Test Execution	Test Execution Jobs	Test Repository Test Configurations	Test Repository Test Scripts	Test Suite Analytics	Configura Test Suite
	Ê	•	a	d J	d J	9 <mark>.00</mark>	Ø

3 In the Test Suite section, click **Test Suite > Test Preparation**.

The Test Preparation page opens.

			Test F	Preparation			
						25	
Solution Name:	Worl	ksoftSolution		×			
TBOMs and Test 0	ases	Test Cases Assignment	Test Cases				2
Solution/Branc	h	Technica	al Name	Solution Documentation	Туре		
 WorksoftSolution 		WORKS	OFTSOLUTION		Solution		
 Production 	 Production 		on	Open	Production Branch		
Maintenance MAIN		MAINTE	NANCE	Open	Maintenance Branch		
Development		DEVELO	PMENT	Open	Standard Branch		

- **4** From the Solution Name field, select your solution.
- **5** Click **Open** next to a branch in which you want to add the test configuration.

The Branch page opens.

			WorksoftSolution - Maintenan	ice .
Bro	wser List Search Result	Where Used List Report	a	
4	a Solution > Business Processes >	WS Sandbox > Businesses > Order Scen	10	
	D Ma	Da Ducingenage	Ender	Castle Brances Blas
	WP Master Data	Duselesses	Ponter	a CerulyProcesssiep
	WS Organizational Unit		Crock Scenario	
	WS Sandbox			
	WS Scenario			
<				>
E	ements of 'Order Scenario'			
5	Name		Туре	Group
	< CERTIFY >		Program «Exec.Ref.»	Executables
	< VA01 > Sample Fiorl App Test config for documentation		Transaction <exec.ref.></exec.ref.>	Executables
			Fiori Application <exec. ret=""></exec.>	Executables
			Fest Configuration	Test Cases
	Z_WS_JJM_10_18		Test Configuration	Test Cases
				T

6 Select a scenario or a process.

7 Right-click in the Elements section and select **New > Test Cases > Test Configuration (Create)**.

< CERTIFY > Program <exec.ref.> < VA01 > Transaction <exec.ref.> Sample Fiori App Fiori Application <exec.ref.> Test config for New Configuration Test Configuration Z_WS_JJM_0t Hide Quick Help Developments Test Configuration (Assign) Z_WS_JJM_0t Hide Quick Help Documentation Test Configuration (Create) More Field Help End User Roles Test Document (From Template Test Document (Upload) Test Document (Assign)</exec.ref.></exec.ref.></exec.ref.>		Name		<u></u>	Туре				
< VA01 > Transaction <exec.ref.> Sample Fiori App Fiori Application <exec.ref.> Test config for New Configuration Test Configuration Z_WS_JJM_10 Developments Test Configuration (Assign) Z_WS_JJM_01 Hide Quick Help Documentation Test Configuration (Create) More Field Help End User Roles Test Document (From Template Test Document (Upload) Test Document (Assign) Test Cases Test Document (Assign)</exec.ref.></exec.ref.>		< CERTIFY >		Program <exec.ref.></exec.ref.>					
Sample Fiori App Fiori Application <exec.ref.> Test config for New Configuration Test Configuration Z_WS_JJM_10 Developments Test Configuration (Assign) Z_WS_JJM_01 Hide Quick Help Documentation Test Configuration (Create) More Field Help End User Roles Test Document (From Template Test Document (Upload) Test Document (Assign) Test Document (Assign) Test Document (Assign)</exec.ref.>		< VA01 >			Transaction <exec.ref.></exec.ref.>				
Test config for New Configuration Test Configuration Z_WS_JJM_01 Developments Test Configuration (Assign) Z_WS_JJM_01 Hide Quick Help Documentation Test Configuration (Create) More Field Help End User Roles Test Document (From Template Test Document (Upload) Test Document (Assign) Test Document (Assign) Test Document (Assign)		Sample Fiori App				Fiori Application <exec.ref.></exec.ref.>			
Z_WS_JJM_1C Developments > Test Configuration (Assign) Z_WS_JJM_DI Hide Quick Help Documentation > Test Configuration (Create) More Field Help End User Roles > Test Document (From Template Test Document (Upload) Test Document (Assign) Test Document (Assign) Test Document (Assign)		Test config for	New >	Configuration	>	Test Configuration			
Z_WS_JJM_DI Hide Quick Help Documentation > Test Configuration (Create) More Field Help End User Roles > Test Document (From Template Technical Help Executables > Test Document (Upload) Test Document (Assign) Test Document (Assign)		Z_WS_JJM_10		Developments	>	Test Configuration (Assign)			
More Field Help End User Roles > Test Document (From Template Technical Help Executables > Test Document (Upload) Test Cases > Test Document (Assign)		Z_WS_JJM_DI	Hide Quick Help	Documentation	>	Test Configuration (Create)			
Technical Help Executables Test Document (Upload) Test Cases Test Document (Assign)			More Field Help	End User Roles	>	Test Document (From Template)			
Test Cases > Test Document (Assign)			Technical Help	Executables	>	Test Document (Upload)			
				Test Cases	>	Test Document (Assign)			

The New Test Configuration dialog opens.

* Solution:	WorksoftSolution			
Test Configuration:				
* Test Tool:		~		
* Test Script		ő		
* Version:	0000001			
* Title:				
* Package:		Ы	Local Object	

- 8 In the Test Configuration field, enter in a name that starts with the letter **Z**.
- 9 From the Test Tool drop-down list, select **Worksoft Certify**.
- **10** In the Test Script field, select or enter a name for a new script.
- **11** In the Version field, assign a version or use the default value.
- **12** In the Title field, enter a title name which is a description for the test configuration.
- **13** Click **Local Object** or select a package.
- **14** Click **OK**.

The Maintain External Element dialog opens.

				Maintair	External Elem	ient					
			WORKSOFT C	ERTIFY Test Confi	guration: ZCREA	TESALESORDER	- ZCREATESA	LESORDE	R		
Display Save Reinish	Launch Worksoft Cer	rtify Execute	Display Log	Assign Executable	Assign Script	Assign Package	Where-Used	Goto 🖌	Close	WorksoftSolution	a
Attributes	Parameters Test Da	ata Search	n Terms Adm	inistrative Data							
Test Configuration Attri	butes Test Script Attr	ributes Tes	t Tool Attributes								
General Data						Other					
* Title:	Create Sales Order						Status	Active	\sim		
* Package:	\$TMP	Ter	mporary Objects (r	ever transported!)			Release Status	Not relea	ised		V
Application Component:		07					Time Required		0.00	Minutes	
Person Responsible:	JMATHEW J	by Mathew					Priority	Medium	~		
System Under Tes	t					Techn	ical Data				
Logical Component Group Executable Type Executable Executable Description						Syste	m Data Container Farget Component Target System	ZWORKS	OFTSOL	UTION	

15 Click **Assign Executable**.

The Assign Executable dialog opens.

Search	Criteria	
Logical Co	omponent Group:	ت ا
I	Executable Type:	 21
	Executable:	
Search	Clear Entries	

16 Click the **Logical Component Group** or **Executable Type** button to select a group or type.

17 Click Search.

The Results List opens.

Search Criteria				
Logical Component Group:	ZERP	ū		
Executable Type:		۲		
Executable:				
L				
Results List				
Results List	up Executable Type	Executable		
Results List Logical Component Gro ZERP	up Executable Type Fiori Application <exec.orig.></exec.orig.>	Executable #Sample Fiori Object-Sample Fiori Actio	1	

18 Select an executable from the Results list.

The Maintain External Element dialog opens with the System Under Test information displayed.

		1	Maintain E	External Elem	ient					
		WORKSOFT CERTIFY T	est Configu	aration: ZCREA	TESALESORDER	R - ZCREATESAI	ESORDE	R		
The data was saved - Disp	blay Help									
Display Save Refresh	Launch Worksoft Certify	Display Log _ Assign E	xecutable	Assign Script	Assign Package	Where-Used	Goto "	Close	WorksoftSolution	Maintenance 🗐 🖌 Quality As
Attributes	Parameters Test Data S	Search Terms Administrative	Data							
Test Configuration Attribut	tes Test Script Attributes	Test Tool Attributes								
General Data					Other					
* Title:	Create Sales Order					Status	Active	\sim		
* Package:	\$TMP	Temporary Objects (never transp	ortedi)			Release Status	Not relea	sed		\sim
Application Component	<otheres></otheres>					Time Required		0.00	Minutes	
Person Responsible:	JMATHEW DI Jojy Mathe	w				Priority	Medium	V		
System Under Test					Techr	nical Data				
Logical Component Group:	ZERP				Syst	em Data Container	ZWORKS	OFTSOL	JTION	
Executable Type:	Transaction <exec.orig.></exec.orig.>					Target Component	ZERP			
Executable Description:	< VA01 >					Tangen Of Stern				
Additional Test Option	ons									
Test Profile:	WS_MAINT_QAS_TEST									

- **19** In the Additional Test Options section, select a test profile.
- 20 Click Save.

Your test configuration is now complete.



Chapter 3

Creating Certify Processes Through Solution Manager

In This Chapter

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Creating Certify Processes

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** From the Test Configuration screen in SAP Solution Manager, click the **Launch Worksoft Certify** button.

		Maintain Exter	nal Element					
		WORKSOFT CERTIFY Test Config	uration: ZCREATESALESORDER	ZCREATESAL	ESORDER	2		
Display Save Refresh	Launch Worksoft Certify	Display Log _ Assign Executable	Assign Script _ Assign Package	Where-Used	Goto 🖌	Close	WorksoftSolution	Maintenance §
Attributes	Parameters Test Data Se	earch Terms Administrative Data						
Test Configuration Attri	butes Test Script Attributes	Test Tool Attributes						
General Data			Other					
General Data	Create Sales Order		Other	Status:	Active	v		
General Data * Title: * Package:	Create Sales Order \$TMP	Temporary Objects (never transported!)	Other	Status: Release Status:	Active Not releas	∼ æd		×
General Data Title: Package: Application Component.	Create Sales Order \$TMP	Temporary Objects (never transported!)	Other	Status: Release Status: Time Required:	Active Not releas	√ ed 0.00	Minutes	×
General Data * Title: * Package: Application Component. * Person Responsible:	Create Sales Order STMP JMATHEW D Joy Mathew	Temporary Objects (never transported)	Other	Status: Release Status: Time Required Priority:	Active Not releas Medium	✓ ed 0.00	Minutes	×
General Data * Title: * Package: Application Component. * Person Responsible: System Under Tes	Create Sales Order \$TMP JMATHEW D Joly Mathew	Temporary Objects (never transported!)	Other Techni	Status: Release Status: Time Required Priority: Cal Data	Active Not releas Medium	✓ ed 0.00 ✓	Minutes	v
General Data * Title: * Package: Application Component: * Person Responsible: System Under Tess Logical Component Group	Create Sales Order \$TMP JMATHEW D Joly Mathew t ZERP	Temporary Objects (never transported!)	Other	Status: Release Status: Time Required: Priority: cal Data n Data Container	Active Not releas Medium	ed 0.00 V	Minutes	Y
General Data * Title: * Package: Application Component. * Person Responsible: System Under Tess Logical Component Group Executable Type	Create Sales Order STMP JMATHEW JJoy Mathew t ZERP Transaction <exec. orig.=""></exec.>	Temporary Objects (never transported!)	Technia Syster	Status: Release Status: Time Required: Priority: cal Data n Data Container arget Component:	Active Not releas Medium ZWORKSO ZERP	ed 0.00	Minutes	×

2 Click **Open** when your browser asks to open the external tool.

Do you want to open or save ags_work_appln.sap (783 bytes) from solman.worksoft.com?	Open	Save	-	Cancel	×
					100

The User Entries for the External Tool dialog opens. Sometimes this dialog is hidden behind other windows.

User Name for External Tool	
Password for External Tool	*****
Project Name in External Tool	

3 Enter in the following information to sign in to Certify:

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

4 Click the **Continue** button.

The Certify Process and Data Editor opens.

- **5** Add steps to your new process or edit your existing process. For information on how to add steps to processes, see the Worksoft Help Portal.
- 6 After you have updated your process, select **SAP** > **Save and Return to SAP** from the Certify Process and Editor menu.

The Process and Data Editor closes, and the Test Configuration screen in Solution Manager reopens.

7 Click **Refresh**.

You are now ready to execute your process in Solution Manager. For more information, see Chapter 4 "Executing Certify Processes from Solution Manager"

Saving Existing Certify Processes to Solution Manager

With Solution Manager integration, you can 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 opens.

2 From the SAP menu, select **SAP** > **Save to SAP (Initially**).

Edit Process - LT03_CreateTransfer	Drder AP Help	
	Load Test Script	
Itela New Action Tools Itela Itela Itela Itela Itela Itela Ite	Load Test Script Save and Return to SAP Save and Continue Save to SAP (Initially) Return to SAP Promote Script Password Maintenance Edit Certify Parameters Show Test Script Details Show RFC Parameters	Steps Recordset Attributes
4 100	(F)	4

The Save Test Script dialog opens.

C	Save Test Script
	Fest Script Information
	Test Script: Version:
(Connection Information
	Username: AS Host: Client: System Number: Language: Change RFC Parameters
_	OK Cancel

- **3** In the Test Script text field, enter a test script name.
- 4 In the Version text field, enter the script version.

5 Click Change RFC Parameters.

The RFC Parameters dialog opens.

Username			
L			
Password:			
AS Host:			
Client:			
System Nu	mber:		
Language:	-		

- **6** Enter the following information:
 - User name
 - Password
 - Host
 - Client
 - System Number
 - Language
- 7 Click OK.

The Save Test Script dialog opens with the RFC connection information.

8 Click OK.

Your test script is saved to Solution Manager.



Chapter 4

Executing Certify Processes from Solution Manager

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Executing Certify Processes from Solution Manager

You can execute your Certify processes from Solution Manager and review detailed results. Solution Manager has the following three modes in which to run your Certify processes:

Mode Option	Description
Normal	Process executes without interruption from the user, and the Certify Result View opens with the results. This option is like Unmanaged mode when running the process in Certify.
Debug Mode	Debug a process during execution. When Certify Configuration dialog opens, select Managed mode to step through process execution.
	For more information, see "To execute your test configuration in the Debug mode:" on page 23.
With User Interface of External Tool	View the Certify UI during the test execution.
	For more information, see "To execute your test configuration in the With User Interface of External Tool mode:" on page 24.

This chapter show how to run processes in each of these modes.

• To execute your test configuration in the Normal mode:

1 From the Test Configuration screen in the Solution Manager, click the **Execute** button.

			Maintain Extern	al Element			
		WORKSOFT CERTIFY Test Conf	iguration: Z_WS_J	JM_DEMO_10_01 - Z_WS_LINDA_	01_SCRIPT		
Display Save Refresh	Launch Worksoft Certify	cute Display Log J Assign Executable	Assign Script	Assign Package	Goto _ Close	WorksaftSolution	Maintenance 📲 Quality Assurance System
Attributes	Parameters Test Data Se	arch Terms Administrative Data					
Test Configuration Attri	butes Test Script Attributes	Test Tool Attributes					
20 00000 °_0000				112-22-01-1			
General Data				Other			
* Title:	Z_WS_JJM_DEMO_10_01			Status:	Active 🗸		
* Package:	\$TMP	Temporary Objects (never transported!)		Release Status:	Not released		\sim
Application Component:	ē			Time Required:	0.00	Minutes	
Person Responsible:	JMATHEW [] Jojy Mathew			Priority:	Medium V		
System Under Tes	t			Technical Data			
System Under Tes	7590			Technical Data	ZWORKSOFTSOLU	TION	
System Under Tes Logical Component Group: Executable Type:	t ZERP Transaction «Exec.Orig.»			Technical Data System Data Container: Target Component:	ZWORKSOFTSOLU ¹ ZERP	TION	
System Under Tes Logical Component Group: Executable Type: Executable:	t ZERP Transaction <exec.orig> VA01</exec.orig>			Technical Data System Data Container: Target Component: Target System:	ZWORKSOFTSOLUT ZERP PSA:001	TION	

2 Click **Open** when your browser asks to open the external tool.

Do you want to open or save ags_work_appln.sap (783 bytes) from solman.worksoft.com?	Open	Save	-	Cancel	×
					4.

The Start Options Test Configuration screen opens.

	- Test Configuration: 2_	WS_JJM_DEM0_10_01
Test Configuration Test Tool	Z_WS_JJM_DEMO_10_01 Worksoft Certify	Z_WS_JJM_DEMO_10_01
General Varian	ts VI Control Cov. Measurem	nent .
Execution Error Behavior Execution Control	S No Termination, Continue	with Next Script Command
SAP Solution Manage	r Context	
Solution Branch	WorksoftSolution Maintenance	• •
Site System Role	Quality Assurance System	n v
System Data		
System Data	ZWORKSOFTSOLUTION	Generated a system data container for SLAN 'WORKSOFTSOLUTION'
Target System	ZERP	
Log		
✓ Log Display		

3 Click the **UI Control** tab.

est Configuration	ZCREATESAL	ESORDER	Create Sales Order	
est Tool	t Tool Worksoft Certify			
General Variant	ts / UI Contro	l Cov. Measureme	ant	
Mode for External To	ol	N Normal		
Delete Execution DB		N Normal		
User Name		D Debug Mode A With User Interface	of External Tool	
Password				
✓ Transfer Log				

4 From the Mode for External Tool drop-down list, select **Normal**.

5 Click the **Execute** button.

When execution begins, a Certify icon appears in your taskbar. Execution may take some time to complete.

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

C Result Viewer							×
File Actions Reports							2000
▲小小小小小小小							
Process Results	Results	Fi.	<i></i>		~		
Z_WS_LINDA_01_SCRIPT -	Process 👘	Title	Start Time	End Time	Status		
	Z_WS_LINDA_01_	Z_WS_LINDA_01_SCRIPT - 3/23/2017	3/23/2017 12:1	3/23/2017 12:1	🚱 passed		
	1						
	1						
	1						
	1						
	1						
	1						
	1						
	14						
	😥 Details 🔍 🗛	ttributes Solman Context	 Import Export Pa 	rameters			
				20000000			
	Header Details						_
	Title:		Total Steps	2			*
	Z_WS_UNDA_01_	SCRIPT - 3/23/2017 12:15:59 PM	1				
	Status:		Passed:				
	passed		1				
	Process:		Failed:				
	Z_WS_UNDA_01_	SCRIPT	0				
	Process Count:		Skipped:				
	1		0				
	Layout:		Aborted:				
			0				*

• To execute your test configuration in the Debug mode:

- **1** Complete Steps 1 through 4 from the To execute your test configuration in the Normal mode:procedure.
- 2 In the UI Control tab, select **Debug Mode** from the Mode for External Tool drop-down list.
- 3 Click the **Execute** whether button.

The Certify Configuration dialog opens.

z_WS	LINDA_01_SCRIPT			
ile: [z_ws	LINDA_01_SCRIPT - 3/20/2017 5:18:3	4 PM		
tings Attributes				
Run Settings		Data		
Stop/Pause On F	ailure	Layout:	[none]	Û
Run Moo	e: Managed	Recordset:	[none]	*
Step Del	ay: 0.000 🚔 seconds	Recordset Mode:	[none]	*
Logging Settings	de: LogAllSteps	Application Version	on Startup Data 15 Already In Context:	
Logging Settings Log Step Mo	de: LogAllSteps	Application Versi	on Startup Data 15 Already In Context:	
Logging Settings Log Step Ma Capture Screen	de: LogAllSteps	Application Version	on Startup Data 15 Already In Context:	
Logging Settings Log Step Mo Capture Screen Screen Capture Mo	de: LogAllSteps	Application Version	on Startup Data Is Already In Context:	
Logging Settings Log Step Ma Capture Screen Screen Capture Ma Output Locat	de: LogAllSteps	Application Version	on Startup Data Is Already In Context:	
Logging Settings Log Step Mo Capture Screen Screen Capture Mo Output Locat	de: LogAllSteps	Application Version	on Startup Data ns Already In Context:	

- 4 Configure your process execution. For more information, see the *Worksoft Certify Online Help*.
- 5 Click **Start** to begin your process execution.

The Certify Execution dialog opens.

C Exec	ution					1000		×
🛪 Run	• Ն Step • Ո	Skip - Stop	Capture	Pause				
Steps	ariables Recordset B	reakpoint		- No.	_			-
Step #	Log Status	Execution	Comment	"Comment"				
		Excedition	comment	connent				
Process	7 WS LINDA 01 SCRI	рт			Sten Count	10	Ø	0 0

- 6 At the top of the Execution dialog, click the **Step** button to begin process execution.
- 7 Continue to click the **Step** button for each process step.
- **8** After all the process steps are executed, the Certify Result Viewer opens with the results.

To execute your test configuration in the With User Interface of External Tool mode:

- **1** Complete Steps 1 through 4 from the To execute your test configuration in the Normal mode:procedure.
- 2 In the UI Control tab, select **With User Interface of External Tool** from the Mode for External Tool drop-down list.
- 3 Click the **Execute** 🚱 button.

The Certify Execution dialog opens and runs the test.

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

Viewing Test Results in Solution Manager

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

To view test results in Solution Manager:

From the Test Configuration Screen in Solution Manager, select **Display Log > Solution Manager Log**.

		1	Maintain External Element				□ ;
		WORKSOFT CERTIFY Test Config	puration: Z_WS_LINDA_01_CONFIG - 2	Z_WS_LINDA_01_	SCRIPT		
Display Save Refresh Attributes Test Configuration Attribut	Launch Worksoft Certify Exe Parameters Test Data Se tes Test Script Attributes	ecute Display Log Assign Executable arrch 7 Test Tool Log Solution Manager Log Data	Assign Script] Assign Package W	here-Used (Goto	e Close	WorksoftSolution	Maintenance 😭 🖌 Quality Assurance System
General Data			Other				
* Title:	Z_WS_LINDA_01_CONFIG			Status: Act	ive 🗸		
* Package:	STMP	Temporary Objects (never transported!)	F	Release Status: Not	released	\sim	
Application Component:	a)		1	Time Required:	0.00	Minutes	
Person Responsible:	JMATHEW 📑 Jojy Mathew			Priority: Me	dium 🗸		
System Under Test	i		Technica	al Data			
Logical Component Group: Executable Type: Executable: Executable Description:	ZERP Transaction <exec.orig> VAD1 < VAD1 ></exec.orig>		System I Targ	Data Container: ZWK pet Component: ZER Target System: PSA	RKSOFTSOLU P :001	JTION	
Additional Test Opti	ons						
Test Profile:	WS MAINT GAS TEST						

The Display Execution Log screen opens.

itle Test Configuration Z_WS	LINDA_01_CONFIG - AGS_WORK_LAUM	NCHER System PSA(001) User JMATHEW S	tart Date 03/20/2017 Start Time 17:	34,17 Duration 00:00:10 Schedul	ed No			
Close							Reli	eled Links
Execution Status								-
Statistics Not Executed: 0 Success: 1 Not Ended: 0 Error: 0 Precondition not Mat: 0					Inte Executed	liet		
View: (Standard View)	Print Version Re-Execute							2
Status	Top Level Test Script	Test Configuration	Variant	Target System	Tool Name	Duration	Log	
	Z WS LINDA 01 SCRIPT	Z WS LINDA 01 CONFIG	ECATTDEFAULT	PSA0	Worksoft Certify	8.983	000000058 00000001	
etails of Test Script Z_V est Configuration Z_WS_LI storm Data Container Va	WS_LINDA_91_SCRIPT NDA_01_COMPIO Trist Script Z_VG_LIN riant ECATTOEFAULT Variant Esecution Overview	DA_01_CONFIG Version 1						
Туре	Text	RFC C	Jbject Number		Sorpt Line Number			^

Viewing eCATT Logs

eCATT logs are generated when a test script or test configuration is executed.

To view eCATT logs:

1 From the Display Execution Log screen, select **Related Links > eCATT Log** on the upper right of the screen.

Display Executio	n	Log: 00000	000056							
Title Test Configuration Z_WS_	UN	DA_01_CONFIG -	AGS_WORK	LAUNCHER System PSA(001)	User JMATHEW Start Dat	e 03/20/2017 Start Time 1	7:34:17 Duration 00:00:10	Scheduled No		
Close									Re	slated Links
Execution Status									e	CATT Log
Statistics Not Executed: 0 Success: 1 Not Ended: 0 Error: 0 Precondition net Met: 0									Net Executed OK Net Finabed Renar Precondition Net Met	
Executed Test Scripts		Driet Varsing	Do Evanuto							0.1
Status	1	Too Level Test So	int	Test Configuration	Variant	Tarnet System	Tool Name	Duration	100	
		7 MIC LINIDA OI	CODIDT	7 IAS LINDA OL CONEIG	ECATTOEEAULT	PRAD	Weikraft Carthy	0.000	000000058 0000	
Details of Test Script Z_W Test Configuration Z_WS_UNI System Data Container Vari Execution Measages	S_ DA ant	LINDA_01_SCR 01_CONFIG Test ECATTDEFAUL ariant Execut	RIPT I Script Z_WS T tion Overview	LINDA_01_CONFIG Version	t					

2 Click **Open** when your browser asks to open the external tool.

The Log Display screen opens.

Log Display - Automa	tic Test 000000056
🖗 🚖 🔻 2 Expand Levels 🔺	- Expand Error 😃 🗊 👼 🖓
1 000000056 Test Config	uration Z_WS_LINDA_01_CONFIG - AGS_WORK_LAUNCHER [W/o Interruption] [10 s]
 PSA 001 JMATHEW (Joj) Test Caller Start Options XML-E Z WS LINDA 01 CONFI 	y Mathew) E 740 SOLMAN Windows NI MSSQL 03/20/2017 17:34:17 MIA-01 G [9.676] Z WS LINDA 01_CONFIG
Target System ZW To Version Finding System Data Z WS LINDA 01 SC	ORKSOFISOLUTION->ZERF->ABIFNMDZMAPHNJ5JOFBGUOVAYM->NONE (FSA 001 JMATHEW E 740 SOLMAN Windows NT MSSQL SOLMAN_PSA_00) -> XML_DATA-05 INORKSOFISOLUTION RUPEY Version 1 [8.983] ECATIDEFAULT 2 WS LINDA 01 CONFIG
Main_script Main_script EMAIN_script	CATTDEFAULT
Z_WS_LINDA	_01_SCRIPT VERSION 1 EXECUTED WITH WORKSOFT CERTIFY XML-DATA-01
 D) EXPORT 	CATTDEFAULT

Viewing Test Package Results

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

Viewing Test Results in Certify

From the Test Configuration Screen in Solution Manager, select **Display Log > Test Tool Log**.

					Maintain Exter	nal Element					• •
		v	VORKSOFT CE	RTIFY Test Config	uration: Z_WS_	LINDA_01_CONFI	G - Z_WS_LIND	A_01_SCR	IPT		
Display Save Refresh Attributes Test Configuration Attribut	Launch Worksoft C Parameters Test I tes Test Script Att	Certify Execute Data Search ributes Test	Display Log _ Test Tool Log Solution Mana	Assign Executable	Assign Script	Assign Package	Where-Used	Goto "	Ciose	WorksoftSolution	Maintenance 🖓 🖌 Quality Assurance System
General Data						Othe					
• Title:	Z_WS_LINDA_01_CO	NFIG			Ĩ		Status	Active	×		
* Package:	\$TMP	Ten	nporary Objects (r	never transported!)			Release Status	Not relea	ised		\mathbf{v}
Application Component:		C1					Time Required		0.00	Minutes	
* Person Responsible:	JMATHEW 🗇	Jojy Mathew					Priority	Medium	Y		
System Under Test						Tech	nical Data				
Logical Component Group: Executable Type: Executable: Executable Description:	ZERP Transaction <exec.orig VA01 < VA01 ></exec.orig 	2>				Syn	tem Data Container Target Component Target System	ZWORKS ZERP PSA:001	OFTSOLL	ITION	
Additional Test Option	ons										
Test Profile:	WS_MAINT_QAS_TES	G 78									

The Certify Results Viewer opens.

File Actions Reports Image: Process Results Results Process Title Start Time End Time Status Image: Process Results Process Title Start Time Start Time Status Image: Process Process Title Start Time End Time Status Image: Process Process Title Start Time Status Image: Process Process Title Start Time Status	
Image: Status Results Results Process Title Start Time End Time Status 	
Process Results Results Process Q_WS_UNDA_01_SCRIPT - Process Title Start Time End Time Status Z_WS_UNDA_01_ Z_WS_UNDA_01_SCRIPT - 3/20/2017 3/20/2017 434: Grad Process	
Process Title Start Time End Time Status Z_WS_UNDA_01_SCRIPT - 3/20/2017 3/20/2017 4/34: 3/20/2017 4/34:	
Z_WS_UNDA_01_ Z_WS_UNDA_01_SCRIPT - 3/20/2017 3/20/2017 4:34: 3/20/2017 4:34:	
😪 Details 🔗 Attributes 🔗 Solman Context 🔗 Import Export Parameters	
Header Details	
Title: Total Steps:	-
Z_W5_UNDA_01_SCRIPT - 3/20/2017 434:15 PM 1	
Status: Passed:	
passed 1	
Process: Failed:	
Z_WS_UNDA_01_SCRIPT 0	
Process Count: Skipped:	
1 0	
Lavout: Aborted:	
0	



Chapter 5 Continuous Testing

In This Chapter

Setting Up Continuous Testing

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

To set up continuous testing, complete the following tasks:

- Disable the user name and password prompt
- Create a Certify project
- Update ECATTUSER in Certify

Registering Worksoft Certify as a Third-Party Tool

If your machine prompts for a user name and password, it is not possible to use Certify in a continuous test.

When you register Certify as a third-party test tool in Solution Manager, disable the password.

In the Maintenance View for Properties of External Test Tools screen, select the **W/o Password** option to disable the password challenge.

< SAP	Change	e View "I	Maintenand	ce Vi	ew f	or Pi	rope	rties	of Exter	nal Test [·]	Tools	:":
 Image: Second sec		6 🖗	New Entries	6	Θ	5	Ð	ß	More 🗸		đ	₽
Tool Name N	WORKSOFT	CERTIFY										
Maintenance View	for Propert	ies of Exte	rnal Test Tool	s								
COM Program ID	WSECATTW	VRAPPER.E	CATTINTERFAC	E.1								
Tool Desc.	Work	soft Certify										
Maintenance DB												
Tst DB Ext Tool												
W/o Password												
W/o Database												
Transfer Log of E	xternal Test	Tool										
Apply Test Attribs.												
BPCA Trace Sup	ported											
🔲 No RFC Logon D)ata											
Z External Test Too	ol Synchroniz	ation										

Creating a Certify 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*.

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 continuous testing:

- **1** Launch Worksoft Certify.
- 2 From the Certify menu, select **Configure > Certify > Certify Global**.
- **3** In the DefaultSolmanProject field, highlight the field and enter 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 continuous testing, the ECATTUser that you created in Certify must have **ECATTUser** as its password.

Chapter 6

Certify Menu Options and System Actions Supporting Integration

In This Chapter

Solution Manager Menu Options in Certify	32
Using Certify System Class Solman Actions	34
Maintaining Passwords with the Logon SDC Action	36
Creating a Technical Bill of Materials Process	37

Solution Manager Menu Options in Certify

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 many menu options 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
SAP > 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 versionConnection information, including RFC parameters
SAP > 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. For more information, see Chapter 3 "Creating Certify Processes Through 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. For more information, see Chapter 3 "Creating Certify Processes Through Solution Manager"

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.
Promote Script	Use with the Multiple SolMan Configuration feature.
	Support test script versioning feature of Solution Manager by auto-detecting a new version of a test script from Solution Manager and creating a corresponding new Certify process.
Logon Default System	Set the default SAP logon information that will be used with the Logon SDC action. You will enter the user name, password, and SAP system. For more information, see "Logon SDC Action" on page 35.
	This menu option is enabled if the Process and Data Editor is launched from Solution Manager.
Logon Selected System	Enter an SAP system login information that will be used with the Logon SDC action. You will enter the user name, password, and SAP system. For more information, see "Logon SDC Action" on page 35.
	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.
Edit Certify Parameters	Create a list of parameters that are exchanged between eCATT and Worksoft Certify. For more information, see Chapter 7 "Exchanging Complex Data with eCATT"
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 Chapter 7 "Exchanging Complex Data with eCATT"
	This menu option is enabled if the Process and Data Editor is launched from Solution Manager.
Map SAP Parameters	Map structured parameters to Certify layouts and variables. For more information, see Chapter 7 "Exchanging Complex Data with eCATT"
	This menu option is enabled if the Process and Data Editor is launched from Solution Manager.

Option	Description
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.
Show SMT Context	Show the Service Mapping Tool (SMT) object. This menu option is enabled if the Process and Data Editor is launched from Solution Manager.

Using Certify System Class Solman Actions

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:

- Set Returned PDF
- TBOM Trace
- Logon SDC

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.

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 "Creating a Technical Bill of Materials Process" on page 37.

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 entered 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 36.
	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
	Kesuits - Kecoraset The generated DDE will generate the the mean of the the second
	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 in Certify allows you to maintain these SAP passwords. You will indicate if the password will be extracted from this dialog with the **Certify Maintained Password** parameter of the Logon SDC action.

You can access this dialog in the Process and Data Editor menu bar **SAP** > **Password Maintenance**. The SAP Password Maintenance dialog 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 can enter 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.

Creating a Technical Bill of Materials Process

Before you create a Technical Bill of Materials (TBOM) process, you will need to do the following tasks in Solution Manager:

- Select test configurations
- Create a test plan and test package
- Execute the test package

In Solution Manager v7.1, you selected test configurations in SAP Solution Manager before creating a TBOM process. The Certify process was called from a test configuration that has a system data container assigned to it. Using transaction code **solar02**, test configurations were selected in the Attributes Maintenance dialog (TBOM tab) from the Transactions tab.

With Solution Manager v7.2, right-click on an executable in your Branch page and select **Assign for TBOM Generation** to assign test configurations.

		前 Delete		
		X Move '< VA01 >'		
<		Element Changes	>	
	Eleme	Subtree Changes	>	>
6	Name	Copy '< VA01 >'		1
	< CERTI	6େଟି Display		ŀ.
	< VA01 >	🖉 Change		
	Create S	► Execute		
	Sample F	Change Target		1
	Test cont	Assign for TBOM Generation		
	Test doc	<u>©</u> Display Link		
	WSConfi	Create TBOM Work Items		
	Z_WS_J			

The Assign Test Configuration page opens.

Test config for documentation Z_WS_JJM_903_DOC_CON Test documenttation Z_WS_JJM_10_DEMO_CON Z_WS_JJM_10_18 Z_WS_JJM_10_18 Z_WS_JJM_DEMO_10_01 Z_WS_JJM_DEMO_10_01 Create Sales Order ZCREATESALESORDER	TBOM	Name	Testcase ID	Usage	
Test documentation Z_WS_JJM_10_DEMO_CON Z_WS_JJM_10_18 Z_WS_JJM_10_18 Z_WS_JJM_DEMO_10_01 Z_WS_JJM_DEMO_10_01 Create Sales Order ZCREATESALESORDER		Test config for documentation	Z_WS_JJM_903_DOC_CON		
Z_WS_JJM_10_18 Z_WS_JJM_10_18 Z_WS_JJM_DEMO_10_01 Z_WS_JJM_DEMO_10_01 Create Sales Order ZCREATESALESORDER		Test documenttation	Z_WS_JJM_10_DEMO_CON		
Z_WS_JJM_DEMO_10_01 Z_WS_JJM_DEMO_10_01 Create Sales Order ZCREATESALESORDER	\checkmark	Z_WS_JJM_10_18	Z_WS_JJM_10_18		
Create Sales Order ZCREATESALESORDER	\checkmark	Z_WS_JJM_DEMO_10_01	Z_WS_JJM_DEMO_10_01		
		Create Sales Order	ZCREATESALESORDER		
					OK Cance
OK Can					[man] [manual

Using the Certify TBOM Trace Action

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

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 entered 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 .

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



Chapter 7 Exchanging Complex Data with eCATT

In This Chapter

Overview	
Editing Certify Parameters	
Selecting Asset Names	

Overview

The following SAP menu options in the Certify Process and Data Editor 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

The **Edit Certify Parameters** option in the Certify Process and Data Editor allows you to exchange complex data between Worksoft Certify and eCATT. When you select this option, the Certify Parameters dialog opens.

Certify Parameters				(77)		×
Selected Parameters:			21			
Name 😤	DirectionType	T Default Value	Description	7 1	уре	
4						Þ
Add Parameter	Remove	Parameter				_
Candidates:						
Refresh Candidates	Make P	arameter				
				×	Cane	rel
			E		. Net call	

Selected Parameters Pane

The Selected Parameters pane displays the parameters exchanged between eCATT and Worksoft Certify. You can add or remove parameters by selecting the option from the right-click menu or clicking the dialog'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 opens in the Selected Parameters pane.

Editing SAP Parameters

The **Edit SAP Parameters** option only appears in the SAP menu if you open Certify from Solution Manager. When you select this option, Certify closes 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.

Mapping SAP Parameters

The **Map SAP Parameters** option only appears in the SAP menu if you open Certify from Solution Manager. When you select this option, a dialog for mapping structured parameters to Certify layouts and variables opens.

The Map SAP parameters dialog 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	Displays the SAP name of the complex item.

Column	Description
Asset Name	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.
	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	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	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

When you select this option, the dialog 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

When you select this option, the dialog 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 the variables in the layout so that you can map to an SAP table.

Chapter 8

Synchronizing Solution Manager Test Packages with Certify

In This Chapter

Starting Synchronization from Solution Manager	. 45
Viewing Synchronized Solution Manager Test Packages in Certify	. 47
Executing Test Packages or Test Scripts from Certify	. 48
Synchronizing Updated Test Packages	. 52

Starting Synchronization from Solution Manager

By synchronizing Solution Manager with Certify, you can run Solution Manager test packages in Certify, and the test results appear in Solution Manager.

To synchronize Solution Manager test packages with Certify:

- **1** Create a test plan and test package in Solution Manager.
- 2 Verify that all test cases in the test packages are linked to Certify processes.
- **3** Open the test package.
- 4 Click the **External Test Tool** tab.

The External Test Tool tab opens.

5 Click Edit.

The Synchronization with External Test Tool screen opens.

Edit Go To 🗸								
✓ General Data	Settir	ngs Te	est Case Selection	Test Data Sets	Testers	Status	External Test Tool	
Synchronizatio	n with Exte	ernal Test	Tool					
Synchronize	Activate	Refresh						
			External Tool:					\sim
			Integration Status:	Worksoft Certif	fy			
	Las	st Success	ful Synchronization:					
			External Entity ID:					
		Syn	chronization Status:	Synchronization	cannot be sta	arted		
		Last Sy	nchronization Start:					
			Default Tester:					

- 6 From the External Tool drop-down list, select **Worksoft Certify**.
- 7 Click Save.
- 8 Click Edit again.

The Synchronization with External Test Tool screen opens again. The Synchronization Status shows that Worksoft Certify is ready for synchronization.

Edit Go To 🗸							
✓ General Data	a Settings	3 Test Case Selection	Test Data Sets	Testers	Status	External Test Tool	
Synchronizatio	on with Extern	ial Test Tool					
Synchronize	Deactivate	Refresh					
		External Tool:	Worksoft Cert	tify			\sim
		Integration Status:	Active				
	Las	t Successful Synchronization:					
		External Entity ID:					
		Synchronization Status:	Synchronizatio	on can be sta	rted		
		Last Synchronization Start:					
		Default Tester:					~

9 Click Synchronize.

Synchronize SAP Text Packages into	Certify						- C	1 ×
Folder New Edit	Delete Export	Print Cut	Copy	Paste Run	Sun in E/M	Processes		
) SAP Test Packages	SAP Test Packag	e Processes						
VS-TESTPKG_SYNC_02_B	SAP Sync Status	¥ Name		Description		V Status	Y SAP Test Plan ID	7 5
	ADDED	Z_JJM_121SAP_SYNC	02_001	2		Passed	TESTPLAN_SYNC_02	
	د رور Details	🚅 Steps 📑 Linke	d Requirements	Attributes	🀉 Version			
	د کری Process Name:	🖉 Steps 🛛 🐚 Linker	d Requirements Layout:	Attributes	b Version	Developme	nt Status:	
	4 Q Details Process Name: Z_JJM_1215	🗲 Steps 📲 Linker	d Requirements	Attributes	b Version	2 Developme Developme	nt Status: ent	
	4 Cotails Process Name: Z_JIM_1215 Description	Steps 👔 Linke	d Requirements	Attributes	3 Version	Developme Developme Process Own	nt Status: ent	
	Details Process Name: Z_JJM_1215 Description 2	Steps Title	d Requirements Layout: L2 Recordset: R51 Recordset Va	Attributes	a Version	Developme Developme Process Ow	nt Status: nt ner:	
	Details Process Name: Z_JJM_1215 Description 2	₽ Steps 📲 Unker	d Requirements Layout: L2 Recordset: R51 Recordset Va Recordset Mo	Attributes	3 Version	s Developme Developme Process Ow	nt Status: ent ner:	
	4 Process Name: Z_JIM_1215 Description 2	Steps 👔 Linke	d Requirements Layout: L2 Recordset: R51 Recordset Va Recordset M Read Only	Attributes	Sta Version	Developme Developme Process Ow	nt Status: ent ner:	

The Synchronize SAP Test Packages in Certify screen displays the test package details, test cases, test scripts, and the Certify processes linked to the test scripts.

- **10** If needed, edit the name in the Certify Test Package Name field at the bottom of the screen.
- 11 Click Sync and return to SAP to complete the synchronization and return to Solution Manager.

The Solution Manager opens.

Edit Go To 🗸		
✓ General Data Settings Test Case Selection	Test Data Sets Testers Status External Test Tool	
Synchronization with External Test Tool		
Synchronize Deactivate Refresh		
External T	Fool: Worksoft Certify	
Integration Sta	atus: Active	
Last Successful Synchronizat	tion: 01.08.2023 06:59:22	
External Entity	y ID: WS-TESTPKG_SYNC_02_B	
Synchronization Sta	atus: Synchronization can be started	
Last Synchronization St	tart: 01.08.2023 06:59:22	
Default Tes	ster: JMATHEW	\sim

12 Click **Refresh** for the test package.

The test package now displays the updated synchronization status.

Viewing Synchronized Solution Manager Test Packages in Certify

You can view synchronized Solution Manager test packages in Certify.

• To view synchronized test packages in Certify:

Open the Processes window in Worksoft Certify.

Processes	SAP Test Package Processes						
Folders U SAP Test Packages	Name	V Description	🛛 Status	Y SAP Test Plan ID	¥ SAP Test Package ID	Y SAP BIODID	v FolderPath v
WS-TESTPKG SYNC A	Z_JJM_121SAP_SYNC_01_001		Failed	TESTPLAN_SYNC_02	TESTPKG_SYNC_02_B	Z_JJM_121SAP_SYNC_01	Main\Format
WS-TESTPKG_SYNC_02_A	Z_JJM_121SAP_SYNC_02_001	2	Passed	TESTPLAN_SYNC_02	TESTPKG_SYNC_02_B	Z_JJM_121SAP_SYNC_02	Main\Solman\FS1
WS-TESTPKG_SYNC_02_C							
WS-TESTPKG_JJM_DEMO_01_A							
WS-TESTPKG_SYNC_02_B							

In the Navigation pane, an **SAP Test Packages** tab was added with the synchronization. The tab displays the process, test plan, test package, and test script details.

Test packages display in the Navigation pane. With the right-click menu, you can remove or execute a test package scripts.



The Summary pane displays the test scripts and Certify processes of the selected test package.

Processes	SAP Test Package Processes					
Folders USAP Test Packages	Name	T Description	▼ Status	V SAP Test Plan ID	▼ SAP Test Package ID	V SAP BlobID
WS-TESTPKG SYNC A	Z_JJM_121SAP_SYNC_01_001		Failed	TESTPLAN_SYNC_02	TESTPKG_SYNC_02_B	Z_JJM_121SAP_SYNC_01
WS-TESTPKG_SYNC_02_A WS-TESTPKG_SYNC_02_C WS-TESTPKG_JINL_DENO_01_A WS-TESTPKG_SYNC_02_B	★ Z_UM_1215AP_5YNC_02_001	Customize Print Table Export Table Customize Export Table Customize Customize Export Table	Pacced Columns e	TESTPLAN_SYNC_02	TESTPKG_SVNC_02_8	Z_UM_1215AP_SYNC_02

You can execute multiple processes at the same time in the Summary pane.

Executing Test Packages or Test Scripts from Certify

1 In the Certify Processes window, click the **SAP Test Packages** tab.

The SAP Test Packages tab opens.

Processes	SAP Test Package Processes			
Folders U SAP Test Packages	Name	▼ Description ▼ Status	マ SAP Test Plan ID	▼ SAP Test Package ID
WS-TESTPKG SYNC A	Z_JJM_121SAP_SYNC_01_001	Failed	TESTPLAN_SYNC_02	TESTPKG_SYNC_02_B
WS-TESTPKG_SYNC_02_A	Z_JJM_121SAP_SYNC_03_001	Customize Columns	ESTPLAN_SYNC_02	TESTPKG_SYNC_02_B
WS-TESTPKG_SYNC_02_C		😝 Print Table		
WS-TESTPKG_JJM_DEMO_01_A		Export Table		
WS-TESTPKG_SYNC_02_B		Delit Edit		
		Show In Folder		
		📑 Run		
	1			

- 2 In the Navigation pane, select a test package.
- 3 In the Summary pane, right-click on one or more processes and select **Run**.
- 4 The RFC Parameters dialog opens.

C Parameters	>
Username:	
Password:	

AS Host:	
Client:	
001	
System Number:	
00	
Language:	
ОК	Cancel

5 Click OK.

The Certify Configuration dialog opens.

rocess:	TPKG: WS-TESTPKG_SYNC_A (Z_JJM_121SAP_SYNC_02_001)					
itle:	TPKG: WS-TESTPKG_SYNC_A (Z_JJM_121SAP_SYNC_02_001) - 8/1/2023 12:27:17 AM					
	D. market					

In the Title field, the name displays in the following format with the prefix of TPKG:

TPKG <Test package name> <Process name or count of processes selected> - timestamp



Note: If the prerequisite check for Solution Manager fails, the Configuration dialog will not open.

6 Click **Start** to begin execution.



At the end of execution, Certify establishes a connection with Solution Manager and updates the final result status.

A confirmation message opens.



7 Click OK.

The Results Viewer opens with the process results.

C Result Viewer							
File Actions Reports							
Export Print Export Full Partial	Next Prev						
Sync Result to Solution Manager: COMPLETED_	Steps						
-X Process Results	Log Status	▼ Application Version N	lame ⊽ Window	♥ Object Name	Y Action Name	▼ Narrative	T
TPKG: WS-TESTPKG_SYNC_02_B (Z_JJM_121	🕨 🗸 passed	System - 1.0	System	Execution	Comment	"Z_JJM_121SAP_SYNC_01"	
Z JJM 1215AP SYNC 01 001	passed	System - 1.0	System	Text	Compare	Verify "a" "Is Equal To" "a"	
7 UNA 1315AD SVNC 01 001	passed	System - 1.0	System	Execution	Comment	"Test"	
	C Details	Parameters	Recordset Variables Data	💌 Test Step Image		_	
	Step						
	Object Nam	e:	Re	esult:			
	Execution		т	rue			
	Action Nam	e:	Re	esult Action:			
	Comment		N	lone			
	Narrative:		Lo	og Status:			

In the Navigation pane, the Sync Result to Solution Manager displays the status of the results. These statuses are defined in Solution Manager.

8 Click Sync Result to Solution Manager.

The Solman Context tab appears in the Details pane.

C Result Viewer							-
File Actions Reports							
Export Print Export Full Partial	Next Pret	v					
Sync Result to Solution Manager: COMPLETED_	Results						
-X Process Results	Process		Title			Y End Time	▼ Status
TPKG: WS-TESTPKG_SYNC_02_B (Z_JJM_121	Z_JJM_1215	AP_SYNC_01_001	TPKG: WS-TESTPKG	SYNC_02_B	8/2/2023 11:40:12 PM	8/2/2023 11:40:14 PM	🗙 failed
Z_JJM_121SAP_SYNC_01_001							
Z_JJM_121SAP_SYNC_01_001							
X Z JJM 1215AP_SYNC 01_001							
	Q Details	Attributes	🐁 Solman Context 🛛 🕑	🖄 Import Export Parameters			
	Solman Cor	ntext					
	Solution ID			Test Plan ID:			
				TESTPLAN_SYNC_02			

Solution ID:		Test Plan ID:
		TESTPLAN_SYNC_02
Solution De	scription:	Test Plan Description:
Project ID:		Test Package ID:
		TESTPKG_SYNC_02_B
Project Desc	cription:	Test Package Description:
Language:		SAP Proc ID:
		000D3A9EEB5D1EDE8CB6FA52985742FE
Used System	ns:	Certify Test Package Name:
		WS-TESTPKG_SYNC_02_B
		Synchronization Status:
		COMPLETED_OK
Synchroniza	tion Message:	

The Solman Context tab displays the following information:

To view execution status in Solution Manager:

- **1** From SAP Solution Manager Launchpad, navigate to Tester Worklist.
- 2 Select the test plan and view the test cases in the second lower grid.

My Tasks -	Tester Work	ist									<u>E</u>				q
															0
ctive Queries															
y Packages Ready to Test (6	5) Released (6)	Protected (5) A	isigned (11)												
Packages - Ready to Tes	at .														
ow Quick Criteria Maintenan	ce											Chang	ge Query Defin	ne New Quer	y Personalize
w: [Standard View]	Attachmen	ts Automatic Te	st 🗸 Refre	esh Status R	un Test Package	Go To √	Print Version E	xport 🗸							0
Test Plan ID		kage ID	.≞ Plan	ned Start D	Planned End .	Prio	rity		Ready To Test	Initial	In Proces	is Errors	OK		My Open
TESTPLAN_SYNC_02	TESTPK	S SYNC 02 A	25.0	7.2023	24.07.2026				~		3	0	0		0
TESTPLAN_SYNC_02	TESTPK	SYNC 02 C	25.0	7.2023	24.07.2026				~		1	0	0		0
TESTPLAN_2010	TESTPK	G_2010	21.0	3.2023	20.03.2026	Very	/ high		~		0	0	2		0
TESTPLAN_TESTOB	TESTPK	S_TESTOB	21.1	1.2022	31.12.2022	High	1		~		0	0	1		1
TESTPLAN_SYNC_02	TESTPK	SYNC_02_B	25.0	7.2023	24.07.2026	Med	dium		~		1	0	1		0
TESTPLAN_TESTOB	TESTPK	3_TESTOB_2	21.1	1.2022	31.12.2022	Med	dium		~		1	0	0		0
Te	ist Package: Ti	ESTPKG_SYNC_(02_B		TESTPKG_SYN	IC_02_B			Attachr	nents: C	1	ast Refresh 03 Executio	.08.2023 06:5	2:35 AM CE ි	T Refresh 🗸
ndard 😡 Switch View	Run Display	Status Defect v	Damageo	d Test Case 🗸	Test Note 🗸	Overall Sta	itus 🗸 Status Hist	ory Refr	resh 🗸					6	₹ <u>±</u> ~
	Test Case	Priority	Ready To	Assigned	Overall S	Executi	Log Id	C	Chang Cha	ng 1	est En Test N	All Op	My Def	Damag	Comm
est case				BAATHEN			935	0	12 09 20 844	THEM					
_JJM_121SAP_SYNC_01	C	Medium	~	JMATHEN			500		0.00.20 Jimp	unun					

You can view the Certify execution statuses against each test. The Log Id provides a link to a UNC path, but is not supported in Certify.

If needed, you can create a PDF report with the full results from the Certify Result Viewer.

Synchronizing Updated Test Packages

After you update a test package in Solution Manager, you need to resynchronize the Certify connection.

• To resynchronize the Certify and Solution Manager connection:

- **1** In Solution Manager, open the updated test package.
- 2 Click the **External Test Tool** tab.

The External Test Tool tab opens.

3 Click Edit.

The Synchronization with External Test Tool screen opens.

4 Click Synchronize.

Certify opens and displays the updated test package in the Synchronize SAP Test Packages in Certify screen.

C Synchronize SAP Text	Packages into Certi	fy						- 0	×
Folder New	Edit Dele	ete Export	Print Cut	Copy	Paste Run	Bun in E/M	Processes		
U SAP Test Packages		SAP Test Packag	je Processes						
WS-TESTPKG_SYNC_02_B		SAP Sync Status	▼ Name		▼ Description		9 Status	マ SAP Test Plan ID	v SA
		CURRENT	Z_JJM_121SAP_SY	NC_01_001			Failed	TESTPLAN_SYNC_02	TE
		REMOVED	Z_11M_1215AP_5Y	NC_02_001	2		Passed	TESTPLAN_SYNC_02	Ŧē
		ADDED	Z_JJM_121SAP_SY	NC_03_001	abc		Passed	TESTPLAN_SYNC_02	TE
		C Details Process Name: Z_JJM_1215	Steps III Lin	ked Requirements Layout: L1	Attributes	\$ Version	Development Developmen	: Status: ¢	
		Description		Recordset:			Process Owne	er:	
				Recordset V	/ariable:				
				Percerdicet I	lode				
				Read Only	Node.				
				Chature					-
Certify Test Package N	ame: WS-TESTPKG_S	SYNC_02_B					Sync and	d return to SAP Ca	ncel

The SAP Sync Status column displays which test cases and test scripts were unchanged, removed, and added to the test package.

5 Click **Sync and Return to SAP** to complete the synchronization.

Certify displays the new set of test cases in the test package.

Processes	SA	P Test Package Processes				2801	8-010-C	
Folders U SAP Test Packages		Name	T Description	🛛 Status	Y SAP Test Plan ID	Y SAP Test Package ID	Y SAP BlobID	V FolderPath V
WS-TESTPKG SYNC A	۲	Z_JJM_121SAP_SYNC_01_001		Failed	TESTPLAN_SYNC_02	TESTPKG_SYNC_02_B	Z_JJM_121SAP_SYNC_01	Main\Format
WS-TESTPKG_SYNC_02_A		Z_JJM_121SAP_SYNC_03_001	abc	Passed	TESTPLAN_SYNC_02	TESTPKG_SYNC_02_8	Z_JJM_121SAP_SYNC_03	Main\Solman
WS-TESTPKG_SYNC_02_C								
WS-TESTPKG_JJM_DEMO_01_A								
WS-TESTPKG_SYNC_02_B								



Appendix A Error Messages

User Authentication Error Messages

Certify will not authenticate the user against the Certify database for the following reasons:

- If an invalid user name is used, Certify displays the message, "Invalid user name: xxx." Certify returns a code to eCATT indicating an invalid user.
- If an invalid password is used, Certify displays the message "Invalid password." Certify returns a code to eCATT indicating an invalid password.

If there is any other error, Certify returns a code indicating unknown error.

Project Validation Error Messages

Certify will not validate the project for the following reasons:

- If the project does not exist, Certify displays the error message, "Project xxx does not exist." Certify
 returns a code indicating an unknown error.
- If the project exists, but the user does not have permission to edit processes in the project, Certify displays the error message, "You do not have permission to edit processes in project XXX." Certify returns a code indicating invalid permissions.

If there is any other error, then Certify returns a code indicating unknown error.

Process Validation Error Messages

Certify will not validate the process for the following reasons:

- If the process is found in a different project, then Certify displays 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 returns a code indicating unknown error.
- If you open an existing process and do not save, you can not connect to eCATT. If Certify cannot connect to eCATT, Certify displays the error message, "Cannot connect to eCATT using RFC," and Certify returns a code indicating an RFC error.

If there is any other error, then Certify returns a code indicating unknown error.

Process Execution Error Messages

Certify displays error codes for the following reasons:

- If the execution status is failed or aborted, Certify returns a code indicating execution failed.
- If Certify has trouble connecting to eCATT to store results, Certify displays the error message, "Cannot connect to eCATT using RFC," and Certify returns a code indicating an RFC Error.

If any other error occurs, Certify returns a code indicating unknown error.



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.

AP	×
Name or password is	s incorrect (repeat logon)
	OK

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 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 Passwords

To prevent password problems, do not change the password for the **ecatt_et_usr** user in Solution Manager. If you need to change the password, it is best that you delete the ecatt_et_usr user and recreate the ecatt_et_usr again.

If you are still having problems, add an entry to the Certify configuration file to override the values of the Solution Manager user name and password as a workaround.

• To add an entry to the Certify configuration file:

- **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 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 lines into the configuration file:

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

<add key="EcattDebugRFCPassword" value="correct password" />

Example:

```
<appSettings>
```

```
<add key="EcattDebugRFCUser" value="ecatt et usr" />
```

<add key="EcattDebugRFCPassword" value="correct password" />

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 information on creating a new test configuration, see Chapter 2 "Creating a Test Configuration in Solution Manager"

Synchronization Troubleshooting

Here are a few scenarios that may prevent successful synchronization.

Unable to Execute a Process from Certify

If you notice the following error in Certify, it could be caused by the Release Status of the test plan is marked Protected.



To allow execution, modify the test plan Release Status to one that allows execution.

SAP			D	isplay Test Plan:	TESTPLAN_SYNC_02	
Edit Go To ∨ Sig	gn Test Case Hierarchy ~					
✓ General Data	Settings Test Case S	election	Test Sequences	Test Packages	Test Data Sets	
Release Status						
	Release Schema:	Default Re	lease Schema			
	Release Status:	Protected			Status Information:	Changes Forbidden / Execution Forbidden
	Workflow is active:					÷.

SAP			Edit Test Plan: T	ESTPLAN_SYNC_02	
Edit Go To 🗸 Sign	Test Case Hierarchy ~				
✓ General Data Set	ttings Test Case S	election Test Sequences	Test Packages	Test Data Sets	
Release Status					
	* Release Schema:	Default Release Schema			
	* Release Status:	Released for Test	\sim	Status Information:	Changes Forbidden / Execution Allowed
	Workflow is active:				

Result Status Fails to Update in Solution Manager

If the result status fails to update in Solution Manager at the end of execution, sign in to Solution Manager and use transaction codes **SLG1** or **SM367** to debug.

To debug from Certify, navigate to the <code>%appdata%/Worksoft</code> folder and inspect **log-file.txt** and **log-file-solman.txt**.

Test Cases Not Linked to Certify Processes

If synchronization fails, you receive the following error in Certify.



You receive the following error in Solution Manager.

Synchronization with External Test Tool			
Cancel Request Deactivate Refres	Б		
	External Tool:	Worksoft Certify	
	Integrati	oft Cartify - SAP Intervation	
		on out of the second second	
	5	en samp - are magneten	
Las	t Successful Synchr	stem.IO.FileNotFoundException: Could not load file or assembly 'sapnco_utils.dll' or one of its dependencies. The e name 'sapnco_utils.dll'	specified module could not be found.
Las	t Successful Synchr 🕺 S External π	stem UD-field/stemulities.ception: Could not load file or assembly 'sapnco_utils.dll' or one of its dependencies. The In ame: 'sapnco_utils.dll at RFCHeigeLHetConnector/RFCHetConnector/DFC/STG_STNC(String precGUID, String ExtExecObjGuid, String E CC_CONTINT ExtEnsific Contents.tringArt (Arteback)	specified module could not be found. brtExecObjiD, String testPlaniD, String testPkgiD,
Las	t Successful Synchr 😵 β External π Synchronizati	stem ID-Fair Surgection stem ID-Fair Surgection: Could not load file or assembly 'sapnco_utils.dll' or one of its dependencies. The in HPC Helge MetConnector/HPC HACConnector/IPPC/ISCE STWC/String precGUID, String ExtExecObjGuid, String E KCC, CONTRIST ExtraContext, Single Affectedata() at EcattCently.SynchroniceTetPackageHandler/DeWork() in E1Hudson/Worksoft/Cently.ManiECATTLEcattCently	specified module could not be found. bitEvecObjiD, String testPlanD, String testPkg/D, ∧SynchronizeTQPackageHandler.cs:line 196
Las	t Successful Synchr External Synchronizatir Last Synchroniza	ver under Versterenden Stevensteren Sond fele or assembly 'sapnco_utils.dll' or one of its dependencies. The In ame: 'sapnco_utils.dll HT BYCHegeL Het Connector JBYCHACConnector.JBYCJCSE SYNKCString precGUID, String ExtExecObjGuid, String E CC, CONTENT Exterior Context, String Art Areaback) HT EcattCentify-SynchronicaTestPackageHandler.DoWork() in E1Hudson/Worksoft/Centify/ManiECATTIEcatCentify	specified module could not be found. IntExecObjiD, String testPlantD, String testPkgID, /SynchronizeT&PackageHandler.co.line 196

These errors indicate that the prerequisite Microsoft Visual C++ redistributable is not installed, so synchronization fails. Install the software to fix synchronization.