Installation Guide

Worksoft Certify® Integration with SAP® Solution Manager



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Worksoft Certify Integration with SAP Solution Manager Installation Guide

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Patent

Worksoft Certify®

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

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Worksoft Certify Integration with SAP Solution Manager

Chapter 1 Overview

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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

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



To integrate Certify with SAP Solution Manager, you must have a basic understanding of Solution Manager. Also, you will need to have business processes created already in Solution Manager in order for you to integrate with Certify.

Worksoft Certify Integration with SAP Solution Manager

Chapter 2 Configuring SAP Solution Manager

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Overview

In order to integrate SAP Solution Manager with Worksoft Certify, you will need to utilize SAP's extended Computer Aided Test Tool (eCATT), which is the SAP's document interface for communication between SAP and testing applications. Your eCATT must be set up correctly in order to implement this integration with Certify.

This chapter will guide you on how to make the following changes to your SAP Server:

- Set up your SAP extended Computer Aided Test Tool (eCATT).
- Register Certify as a test tool.
- Enable third-party test case types.
- Create a new SAP user to communicate between SAP eCATT and Certify.

Before you begin, you will need to:

- Install both Certify and the SAP GUI client on the client machine where you will be using Certify in combination with your SAP Solution Manager.
- If you access your SAP Server through an SAP gateway, then you must create a registry key on the client that defines your default SAP GUI connection.

Setting Up SAP eCATT

The SAP Central Test Management System uses an eCATT test script to test all of the components on all systems. The test system and the central test management system communicate through the remote function call (RFC) interface. Even for an automated test run, a connection via RFC always requires an interaction with the user because the client, user name, and password must be re-entered for every system called by RFC. Although this problem could be solved by storing the logon data in the RFC connection, it is not recommended for security reasons.

The procedure recommended by SAP is to set up a trusted RFC connection that requires neither a manual logon to the target server nor the logon data be stored anywhere. An exact instruction for setting up a trusted RFC connection can be found in SAP Note 128447.

When you set up your SAP eCATT, you must do the following tasks:

- Verify the SAP support package level.
- · Create explicit permissions for every client that will test via eCATT.
- Enable scripting with transaction rz11.
- Remove existing parameter pre-assignments.

• To verify SAP support package level:

First, all systems to be tested must fulfill specific minimum requirements regarding the installed support package levels.

You will need to verify that your system meets the required support package level. For more information about required release and support levels, see SAP Note 519858.

• To create explicit permission for every client that will test via eCATT:

An explicit permission must be set for every client that has an automated test which will run via eCATT.

- 1 From Solution Manager, type the transaction code **scc4** in the Command field of the SAP toolbar.
- 2 Press <Enter>.

The Display View Contents: Overview screen appears.

3 Click the **Display > Change** 2 button.

The New Entries button appears.

4 Click the **New Entries** button.

The New Entries: Details of Added Entries screen appears.

C Table View Edit Goto Selection Utilities System Help	
New Entries: Details of Added Entries	
1	
Client	
City Last Changed By	
Logical system Date	
Client role	
Changes and Transports for Client-Specific Objects	
O Changes without automatic recording	
Automatic recording of changes Automati	
O No changes allowed	
O Changes w/o automatic recording, no transports allowed	
Cross-Client Object Changes	
changes to Repository and cross-chent customizing anowed	
Protection: Client Copier and Comparison Tool	
Protection level 0: No restriction	
CATT and eCATT Restrictions	
eCATT and CATT Not Allowed	
Destrictions	
Locked due to client copy	
Protection against SAP upgrade	
	D SCC4 🖻 sn-sap2 INS 🛛 🎢

- **5** Fill in the information about the client.
- 6 In the Cross-Client Object Changes field, select **Changes to Repository and cross-client Customizing allowed** from the drop-down list.
- 7 In the CATT and eCATT Restrictions field, select one of the following options.

Option	Description
eCATT and CATT Allowed	Enables you to implement eCATT and CATT without restrictions. Using inline ABAP and function modules, any code can be run on the target system (security).
eCATT and CATT Only Allowed for 'Trusted RFC'	Automated test cases can be started only if the target system has been addressed via a trusted RFC connection. In this case, the full range of functions can be implemented for tests on this client.
eCATT Allowed, but FUN/ABAP and CATT not Allowed	Only transactions can be executed in the target client. They must be addressed via eCATT.
eCATT Allowed, but FUN/ABAP and CATT only for 'Trusted RFC'	This protection level allows calling function modules and executing inline ABAP provided that the connection to the target system is established via a trusted RFC.

8 Repeat the process to create all of your clients.

• To enable scripting with transaction rz11:

1 From the SAP GUI interface, type **rz11** in the Command field of the SAP toolbar.

2 Press < Enter >.

The Maintain Profile Parameter screen appears.



- 3 In the Param Name field, type the following: sapgui/user scripting.
- 4 Click Display.

The Display Profile Parameter Attributes screen appears.

Documentation Ch	ange Value
Param. Name	
sapgui/user_scripting	
Short description(Engl)	Enable or disable user scripting on the frontend.
Appl. area	GUI Frontend
ParameterTyp	Logical value 🤕
Changes allowed	Change permitted 🕢
Valid for oper, system	All operating systems 🕢
DynamicallySwitchable	R
Same on all servers	
Dflt value	FALSE
ProfileVal	FALSE
Current value	TRUE
Switched from	WSTEST02 11/19/2009 13:27:41

5 Click the Change Value button.

The Change Parameter Value screen appears.

arann. Ivanne	sapgui/user_scripting	
Dflt value	FALSE	
ProfileVal	FALSE	
Current value	FALSE	
New value	FALSE	

- 6 In the New Value field, type **TRUE**.
- 7 Click the **Save** button.
- 8 Repeat **Step 3** through **Step 7** for the following parameters:

Parameter	Value
<pre>sapgui/user_scripting_disable_recording</pre>	FALSE
<pre>sapgui/user_scripting_force_notification</pre>	FALSE
<pre>sapgui/user_scripting_set_readonly</pre>	FALSE

• To remove existing parameter pre-assignments:

You will need to remove the existing parameter pre-assignments. If the pre-assignments are changed between recording and processing the script, the changed assignment can produce errors. Also, if the script is processed by a different SAP user, then errors can occur.

1 From Solution Manager, type the transaction code **su3** in the Command field of the SAP toolbar.

2 Press <Enter>.

The Maintain User Profile screen appears.

3 Click the **Parameters** tab.

The Parameters tab appears.

Image: Constraint of the second se	rameter rameter ID L C	Parameter value a X X XX X 00000	Short Description Upper and lower case in source code: 'X' = low Workflow: User-specific settings	

- 4 Remove any pre-defined parameter values.
- 5 Click the **Save** button to save the changes.
- · ·

Note: To ensure that no user-specific parameters are predefined, create a new user and use it exclusively for recording. If you need to document the creator of the automatic test case for verification management, use **Transaction SU3** to delete the parameter pre-assignments for your user before recording.

Registering Certify as a Third-Party Test Tool

In order to enable the integration with Solution Manager, you must register Worksoft Certify as a third-party test tool. To register Certify as a test tool, you will need to first navigate to the Solution Manager registration tool.

► To navigate to the Solution Manager registration tool:

This procedure will show you the two different ways to navigate to the registration tool.

Process 1

- **1** From the SAP GUI interface, type the transaction code **SOLMAN_WORKCENTER** in the Command field of the SAP toolbar.
- 2 Click the Test Management tab.
- **3** In the left pane, click **Administration**.

The Administration screen appears.



Under the 3rd Party Automated Test Tool section, click Register 3rd Party Test Tool.
 The Change View: "Customizing Table for External Test Tool" screen appears.

Process 2

1 From the SAP GUI interface, type the transaction code **SPRO** in the Command field of the SAP toolbar.

The Customizing: Execute Project screen appears.



2 Click the SAP Reference IMG button.

The Display IMG screen appears.

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	(The last
	81
Display IMG	
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tructure	
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Read Me: Initial and Delta Configuration Release 7.1	
D Basic Configuration	
D Technical Settings	
 Capabilities (Optional) 	
D Implementation/Upgrade	
D Solution Documentation Assistant	
Test Management	
D Standard Configuration	
D Extended Configuration	
D CATTs and eCATTs	
D BW-based Reporting	
D Test Capability Extensions	
External Integration	
By Information	
IBM Rational Test Management Tool Integration	
 External Test Tool with eCATT 	
P O Decision and Configuration Prerequisites	
Kegister rest tool	
Generate Osers	

- 3 Navigate to the Register Test Tool: SAP Solution Manager > Capabilities (Optional) > Test Management > External Integration > External Test Tool with eCATT > Register Test Tool.
- 4 Click the **Execute** button to open the registration tool.

The Change View "Customizing Table for External Test Tool" screen appears.

Now that the registration tool is launched, you are ready to register Certify as a third-party test tool.

• To register Worksoft Certify as a third-party test tool:

1 From the Change View "Customizing Table for External Test Tool" screen, click the **New Entries** button.



The New Entries: Details of Added Entries screen appears.



2 Type or select the following parameter values:

Parameter	Value
Tool Name	Worksoft Certify
COM Program ID	WSECATTWRAPPER.ECATTINTERFACE.1
Tool Description	Worksoft Certify
Maintain DB	NONE
TestExecuteDB	NONE
W/O Password	Unchecked
W/O Database	Checked
Transfer Log	Checked
Supp. BPCA Trace	Checked



Note: The COM Program ID value must be in all uppercase letters.

3 Click the **Save** button.



You will now need to enable third-party test case types.

Enabling Test Case Types

In order for Certify tests to appear in transactions, such as Solar01 and Solar02, you must enable third-party test case types in SAP Solution Manager.

- **•** To enable third-party test case types in SAP Solution Manager:
 - **1** From the SAP GUI interface, type the transaction code **SOLMAN_WORKCENTER** in the Command field of the SAP toolbar.
 - 2 Click the **Test Management** tab.
 - 3 In the left pane, click Administration.

The Administration screen appears.

Solution Manager System Help		
0 0	■ C C C C C C C C C C C C C C C C C C C	1 🔞 🖪
SAP Solution Manager: We	ork Centers	19
C5137766	Innanement Test Management Job Management	Solution Documentation 4
inplementation / opgrade incident #	anagement rest management Job management	Solution Documentation A
↓ → H	Test Organizer Settings	Default Required Ti
Overview	Configure test settings like status, messages,	Configure the default
Test Preparation	profiles, etc.	Default Required Time
BP Change Analyzer	Central rest moniperior Settings	
Test Plan Management	A 3rd Party Automated Test Tool	BI Reporting Setting
Tester Worklist	Register your 3rd party automated test tool here	Enable and configure
Damaged Test Case Worklist	Register 3rd Party Test Tool	BI Reporting Settings
Test Evaluation		
Logs	Test Case Turne in Palulian Manager	TROMUNIC
Reports	Configure the used test case types in Solution	Le Execute TBOM Utilities
Administration	Manager	Mass Deletion or TBO
▼ Common Tasks	Test Case Types Settings	Goto TBOM Utilities
Easy Test Automation	Generic Attributes	Maintain TROM Filte

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4 Under the Test Case Types in Solution Manager section, click **Test Case Types Settings**.

The Display View "Test Case Types Settings": Overview screen appears.

Table View Edit	<u>Goto Selection Utilities</u> S	ystem I	Help		
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Display View	"Test Case Types	Setti	ngs": (Overview	
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Test Case Types Se	ttings				-
Test Case Type	Test Tool		Active	Description	m
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CATT Test Configuratio	3rd Party Test Tool eCATT	0 0 0		CATT test Test Configuration eCATT Test Configuration	
CATT Test Configuratio	3rd Party Test Tool eCATT	0		CATT test Test Configuration eCATT Test Configuration Function Module Test	
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CATT Test Configuratio	3rd Party Test Tool eCATT		ब ब ब ब	CATT test Test Configuration eCATT Test Configuration Function Module Test Manual Test Case Test Document	•

5 Verify that the 3rd-Party Test Tool is active.

This option must be active in order for Certify to appear as an available tool in Solar01 and Solar02. You will now create an eCATT user account.

Creating an eCATT Role and User Account

To take advantage of eCATT integration using external tools, a role and user account must be generated by your system administrator.

To create an eCATT role:

- **1** From the SAP GUI interface, type the transaction code **SE38** in the Command field of the SAP toolbar.
- 2 Press <Enter>.

The ABAP Editor screen appears.

Program Edit Goto Utilities	Environment System Help	. 🗆 🖂
8 E 4	B C C C L H H H T D D D D A A A A O B	
ABAP Editor: Initial Sci	reen	
	1 😥 Debugging 🕀 With Variant 🖄 Variants	
Program <mark>ECATT_GENERAT</mark>	r <mark>E_ET_USER </mark>	
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Source code		
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OAttributes		
O Documentation		
O Text elements		
Ra Display	Change	
ag Dishigh		

- **3** In the Program field, type **ECATT_GENERATE_ET_USER**.
- 4 Click the **Execute** button or press **<F8>**.
- 5 After running the program, type the transaction code **PFCG** in the Command field of the SAP toolbar.

The Role Maintenance screen appears.

I⊂ Role Edit Goto Ut	ilities Environment System <u>H</u> elp		SAP
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Role Maintenan	ice		
	Transactions		
Role SAP_E	CET	🖌 🔂 🔹 Role 🚺 Comp. Role	e 😹 🕂
Name			
🔁 Views 🔋 🛛 🖌 😽	Show Documentation		
Favorites		Description	Target Sys
No favorites exist			▶ PFCG 🖻 srv-sap2 INS

- 6 In the Role field, type **SAP_ECET**.
- 7 Click the **Change role** button. Ignore the subsequent warning the appears.

The Change Role screen appears.

C≠ Role Edit Go	to Utilities System Help				SAP
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Change Ro	es				
🞾 🖻 Other role	e 🕂 🛅				
Role					
Role	SAP_ECET				
Description	Role for the External Tool	Interface to eC	ATT		
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Si Doompilo			an ppo GL i orconan		
Created by		Last Changed	On/By		
User	SAP	User	SAP		
Date	07/16/2002	Date	07/16/2002		
Time	10:45:40	Time	11:16:34		
Information Abou	t Authorization Profile				
Profile Name	S_ECET_RFC				
Profile Text	Profil zur Rolle SAP_ECET				
Status	Current version not generated				
.					
Maintain Authoniz	Authorization Data				
onunge /					
🖼 Expert M	ode for Profile Generation				
				NIDE	
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8 Click the **Authorizations** tab.

The Save Role messages appears.

9 Click **Yes** to save the role.

The Authorizations tab opens.

10 Click the **Change Authorization Data** *left* button.

The Change Role: Authorizations screen appears with a hierarchical tree structure displaying the contents of the role.

Authorizations Edit Goto Utilities Environment System Help	
	S.
Change role: Authorizations	
📧 🖺 🚱 🗊 🛃 Selection criteria 🛃 Manually 🖻 Open 🖻 Changed 🖻 Maintained Organizatio	nal levels 🔠 🖬 Information
Maint.: O Unmaint. org. levels O open fields, Status: Unchanged	
SAP_ECET COC Role for the External Tool Interface to eCATT	
E CO Manually Cross-application Authorization Objects	
	▲ ▼
	FCG 🖻 srv-sap2 INS

- **11** Place your cursor over the top node **SAP_ECET** in the tree display.
- **12** From the menu, select **Authorizations > Generate** or click the **Generate (S)** button from the toolbar.

The SAP_ECET role is generated.

- 13 In the toolbar, click the **Back** Sutton to return to the Role Maintenance screen.
- 14 Click the **Save** button to save the role.

► To create an eCatt user account:

- **1** Type the transaction code **su01** in the Command field of the SAP toolbar.
- 2 Press <Enter>.

The User Maintenance screen appears.

년 Users Edit Goto Information Environment System Help	SAP
◎	Ser .
User Maintenance: Initial Screen	
User ECATT_ET_USR	
Alias	

- **3** In the User field, type **ECATT_ET_USR**.
- 4 Click the Change Password 🙆 button.

The Change Password dialog box appears.

- **5** In the New Password and Repeat Password fields, type a secure password. Passwords are limited to 32 characters.
- 6 Press <Enter>.
- 7 Log off of SAP.

Your new user is now enabled to communicate between SAP eCATT and Certify.

Now that you have completed configuring Solution Manager, you will need to configure Certify.

Worksoft Certify Integration with SAP Solution Manager

Chapter 3 Configuring Worksoft Certify

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Creating a User Named ECATTUser in Certify

After you have configured your SAP Server, you will now configure Certify. In Certify, you will need to create a Certify user with the name of **ECATTUSER**. This new user will help you connect to SAP Solution Manager.

• To create ECATTUser in Certify:

- In the Certify Navigation pane, click Users & Groups.
 The Users & Groups window appears.
- 2 In the Users Summary pane, right-click in the pane and select **New User**.

The New User dialog box appears.

3 In the First Name and Last Name fields, type in the first and last name of the user.

The first and last names can have a maximum of 100 characters. Special characters and numbers are allowed in names.

- 4 In the Username text field, type **ECATTUSEr**. This name is case-sensitive.
- **5** In the New Password and Verify Password text fields, type a password for the user.

Passwords have a minimum of 6 characters and a maximum of 16 characters. Special characters are allowed.

- 6 Select the **Password Never Expires** option.
- 7 Click **OK** to save the new user.

Configuring Global Settings for Solution Manager Integration

The Global Configuration Settings dialog box in Worksoft Certify allows you to edit your current configuration for all users in your organization. Some of the global settings affect Certify integration with SAP Solution Manager.

• To configure global settings for Solution Manager integration:

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

The Global Configuration Settings dialog box opens.

2 Select values for the following parameters from the drop-down lists:

Parameter	Description			
SAP Process Lock Mode	Select one of the following values:			
	 True – Lock assets and do not allow sharing of assets between tests. 			
	 False – Do not lock assets and allow assets to be shared. For example, allow a project variable to be used in two different tests linked to Solution Manager. 			
	Worksoft recommends the default value False.			
SAP Process Serialize Mode	When a process and its related assets (e.g. variables, objects, child processes, layouts, etc.) are stored in the SAP Solution Manager, this parameter controls how much data is actually sent to the Solution Manager.			
	Select one of the following values:			
	 Serialize_IDOnly – Store only IDs. 			
	 Serialize_FullyPortable – Store all information for all assets as completely as possible. This option has the longest process time. 			
	 Serialize_ICL_Variable_RefOnly – Store process and layout information in full form, and store ICL and variable information by ID only. 			
	 Serialize_ICL_RefOnly - Store process, layout, and variable information in full form, and store ICL information by ID only. 			
	Worksoft recommends the default value Serialize_IDOnly. If you change this value after you have selected the default value, you may have complications with integrating Certify with Solution Manager.			

Parameter	Description			
SAP Results Serialize Mode	When a result is stored in Solution Manager, this parameter controls how much data is sent to Solution Manager.			
	Select one of the following values:			
	Serialize_IDOnly – Store only IDs.			
	 Serialize_FullyPortable – Store all information for all assets as completely as possible. This option has the longest process time. 			
	 Serialize_ICL_Variable_RefOnly – Store process and layout information in full form, and store ICL and variable information by ID only. 			
	 Serialize_ICL_RefOnly - Store process, layout, and variab information in full form, and store ICL information by ID only. 			
	Worksoft recommends the default value Serialize_IDOnly. If you change this value after you have selected the default value, you may have complications with integrating Certify with Solution Manager.			
Default Solman Project	As part of Solution Manager integration, Certify gets registered as a third-party test tool. This parameter indicates whether or not to prompt the user for a user name and password.			
	The Default value is the IntegratedSAP project. The user provides the project name. You are able to override the default project by typing the name of the project into this field. This value must be selected at the beginning of an implementation.			
	If the you select to prompt for a user name and password, then it is not possible to use Certify in a lights-out test because the prompt will appear.			
	If you want to avoid the prompt and enable lights-out testing, then you must mark the Certify registration as to not require a password.			

3 Click **OK** to save your global settings.

Solution Manager integration with Certify is now complete. For information on how to utilize this integration, see the *Worksoft Certify Integration with SAP Solution Manager User Guide*.

Worksoft Certify Integration with SAP Solution Manager

Appendix A Troubleshooting

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

Verifying ECATT_ET_USR User is Not Locked

The ABAP code in Solution Manager uses a well-known user name and password. The well-known user name is **ecatt_et_usr**. User names are generally not case sensitive, so ecatt_et_usr and ECATT_ET_USR are treated the same.

This user name and password is sent from Solution Manager to Certify where Certify uses them to make Remote Functional Calls (RFC) back into Solution Manager. In order for calls to work, the user name ECATT_ET_URR must not be locked. If this user name is locked, you will need to unlock it.

To verify ECATT_ET_USR is not locked:

1 Log on to your Solution Manager.

The SAP Easy Access Solution Manager screen appears.

- 2 Type the transaction code **su01** in the Command field.
- 3 Press <Enter>.

The User Maintenance screen appears.

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4 Click the **Lock/Unlock** button.

If the user is locked, the following message appears.

C Unlock User E ATT_ET_USR	×
F	٦
L Locked by system manager !	L.

5 Click the **Unlock** button to unlock the user.

The ECATT_ET_USR is unlocked.

6 Save your changes to this user.

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.