HP OpenView Select Identity

Connector for RSA ACE/Server

Connector Version: 1.0

Installation and Configuration Guide

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- Commons-beanutils
- Commons-collections
- Commons-logging
- Commons-digester
- Commons-httpclient
- Element Construction Set (ecs)
- Jakarta-poi
- Jakarta-regexp
- Logging Services (log4j)

Additional third party software used by Select Identity includes:

- JasperReports developed by SourceForge
- iText (for JasperReports) developed by SourceForge
- BeanShell
- Xalan from the Apache XML Project
- Xerces from the Apache XML Project
- Java API for XML Processing from the Apache XML Project
- SOAP developed by the Apache Software Foundation
- JavaMail from SUN Reference Implementation
- Java Secure Socket Extension (JSSE) from SUN Reference Implementation
- Java Cryptography Extension (JCE) from SUN Reference Implementation
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- OpenSPML Toolkit from OpenSPML.org
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- BouncyCastle engine for keystore management, bouncycastle.org

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1 Documentation Map

This chapter describes the organization of HP OpenView Select Identity connector documentation and provides necessary information on how to use the documentation set to install and configure the connectors.

Figure 1 illustrates the documentation map for HP OpenView Select Identity connector. For a list of available product documentation, refer to the Table 1.

Figure 1 Documentation Map



Document Title and Filename	Contents	Location
Release Note RSA Connector v1.0 Release Note.htm	This file contains necessary information on new features of the connector, enhancements, known problems or limitations, and support information.	/Docs/ subdirectory under the connector directory.
Connector Deployment Guide (for Select Identity 4.10) connector_deploy_SI4.1.pdf Connector Deployment Guide (for Select Identity 4.0/4.01.000) connector_deploy_SI4.pdf	 Connector deployment guides provide detailed information on: Deploying a connector on an application server. Configuring a connector with Select Identity. Refer to these guides when you need generic information on connector installation. 	/Docs/ subdirectory under the connector directory.
Connector Installation and Configuration Guide RSA_install.pdf	Connector installation and configuration guide provides installation instructions for a specific connector. It contains resource specific configuration details.	/Docs/ subdirectory under the connector directory.

Table 1 Connector Documentation

2 Introduction

This chapter gives an overview of the HP OpenView Select Identity connector for RSA ACE/ Server. An HP OpenView Select Identity connector for RSA ACE/Server enables you to provision users and manage identities on RSA ACE/Server. At the end of this chapter, you will be able to know about:

- The benefits of the HP OpenView Select Identity.
- The role of a connector.
- The connector for RSA ACE/Server.

About HP OpenView Select Identity

HP OpenView Select Identity provides a new approach to identity management. Select Identity helps you automate the process of provisioning and managing user accounts and access privileges across platforms, applications, and corporate boundaries. Select Identity communicates with the enterprise information system through connectors, and automates the tasks of identity management. The enterprise information system, which is also referred to as **resource**, can be a database, a directory service, or an ERP package, among many others.

About Connectors

You can establish a connection between a resource and Select Identity by using a connector. A connector is resource specific. The combination of Select Identity and connector helps you perform a set of tasks on the resource to manage identity. A connector can be **unidirectional** or **bidirectional**. A unidirectional connector helps you manage identities from Select Identity, but if any change takes place in resource, it cannot communicate that back to Select Identity. On the other hand, a bidirectional connector can reflect the changes made on resource back to Select Identity. This property of bidirectional connectors is known as **reverse synchronization**.

About the RSA Connector

The connector for RSA ACE/Server — hereafter referred to as RSA connector —enables HP OpenView Select Identity to perform the following tasks on RSA ACE/Server systems:

- Add, update, and remove users
- Retrieve user attributes

- Enable and disable users
- Verify a user's existence
- Change user passwords
- Reset user passwords
- Retrieve all entitlements
- Grant and revoke entitlements to and from users

It is a bidirectional agent-based connector. The mapping file defines how Select Identity user attributes are mapped to RSA ACE/Server's user attributes.

The RSA connector can be used with Select Identity 4.01.000 and 4.10.

Overview of Installation Tasks

Before you start installing the connector, you must ensure that system requirements and all the installation prerequisites are met. Refer to the Table 2 for an overview of installation tasks.

Task Number	Task Name	Reference
1	Install the connector on the Select Identity server.	See Installing the Connector on page 11.
	 Meet the system requirements. 	See System Requirements on page 11.
	 Extract contents of the Schema file (file that contains the mapping files for the connector) to location on the Select Identity server. 	See Extracting Contents of the Schema File on page 12.
	 Install the Resource Adapter Archive (RAR) of the connector on an application server. 	See Installing the Connector RAR on page 12.
2	Install the agent on the RSA ACE/Server resource machine.	See Installing the Agent on page 13.
3	Configure the connector with the Select Identity server.	See Configuring the Connector with Select Identity on page 29.

Table 2Organization of Tasks

3 Installing the Connector

This chapter elaborates the procedure to install RSA connector on Select Identity server. At the end of this chapter, you will know about

- Software requirements to install the RSA connector.
- Prerequisite conditions to install RSA connector.
- Procedure to install RSA connector.

RSA Connector Files

The RSA connector is packaged in the following files in the RSA directory on the Select Identity Connector CD:

Serial Number	File Name	Description
1	RSAConnector.rar	The Resource Adapter Archive (RAR) file contains the connector binaries.
2	RSASchema.jar	The Schema file contains the XML (RsaConnectorMappingFile.xml) and XSL (RsaConnectorMappingFile.xsl) files that contain the user attribute information of RSA ACE/Server.
3	RSASetup.zip	The ZIP file contains the executable for agent installation.

Table 3 RSA Connector Files

System Requirements

The RSA connector is supported in the following environment:

Table 4Platform Matrix for RSA connector

Select Identity Version	Application Server	Database
4.01.000/4.10	The RSA connector is supporte configurations of Select Identit	ed on all the platform ty 4.01.000 and 4.10.

This connector is supported with RSA ACE/Server, version 5.2, on Windows.

Extracting Contents of the Schema File

The Schema file of the connector contains necessary mapping information to map resource attributes to Select Identity. Extract contents of the RSASchema.jar file to a directory that is in the application server CLASSPATH. Refer to the *HP OpenView Select Identity Connector Deployment Guide* for detailed instruction to extract contents of the Schema file.

Installing the Connector RAR

To install the RAR file of the connector (RSAConnector.rar) on the Select Identity server, you must copy the file to a local subdirectory on the Select Identity server, and then deploy on the application server. Refer to the *HP OpenView Select Identity Connector Deployment Guide* for detailed information on deploying a RAR file on an application server.



While deploying the RAR on WebSphere, enter the JNDI Pool Name as **eis/**RSAConnector.

4 Installing the Agent

You must install the agent on the resource system to enable reverse synchronization. This chapter gives you an overview of the agent for RSA connector and the procedure to install the agent on the RSA ACE/Server resource. At the end of the chapter, you will be able to know about:

- The role of an agent.
- The procedure to install an agent.
- The procedure to modify the configuration settings after agent installation.

About the Agent

The connector communicates to RSA ACE/Server with the help of an agent. For forward operations (Select Identity to RSA ACE/Server), the connector communicates with the agent and agent performs the provisioning on the resource. Agent sends back any changes made on RSA ACE/Server to Select Identity web service in the form of SPML requests. The agent installer program is packaged with the file RSASetup.zip.

Installing the RSA Connector Agent

Before you start installing the agent on the RSA ACE/Server machine, make sure that JDK v1.4.2 is installed on the resource system. Perform the following steps to install the agent:

1 Extract contents of the RSASetup.zip file to a directory (for example, <Extract_Dir>) on the RSA ACE/Server system. The directory structure — Windows/Disk1/InstData/ NoVM — is created under <Extract_Dir>. 2 Run the install.exe file (located in *<Extract_Dir>/*Windows/Disk1/InstData/ NoVM). The installation wizard appears.



3 Select the language of your choice and click **OK**. The Introduction screen appears.

📲 RSA Connector Agent	
1 1 A	Introduction
 Introduction Choose Install Folder Choose Shortcut Folder Get Global Properties Get Reconciliation/Single Get Reconciliation Param Edit Operational Attribute Get Initial Component Sta Pre-Installation Summary Installing Install Complete 	InstallAnywhere will guide you through the installation of RSA_Connector. It is strongly recommended that you quit all programs before continuing with this installation. Click the 'Next' button to proceed to the next screen. If you want to change something on a previous screen, click the 'Previous' button. You may cancel this installation at any time by clicking the 'Cancel' button.
InstallAnywhere by Zero G	Previous

4 Click Next. The Choose Install Folder screen appears.

🗹 Introduction	Where Would You Like to Install?
还 Choose Install Folder	C:\Program Files\HP Resource Side Adaptors\RSA_Connector
 Choose Shortcut Folder Get Global Properties Get Reconciliation/Single Get Reconciliation Param Edit Operational Attribute Get Initial Component Sta Pre-Installation Summary Install Complete 	Restore Default Folder Choose

5 Type the location of the installation and click **Next**. The Choose Shortcut Folder screen appears.

Introduction	Where would you like to create product icons?	
 Choose Install Folder Choose Shortcut Folder Get Global Properties Get Reconciliation/Single Get Reconciliation Param Edit Operational Attribute Get Initial Component Sta Pre-Installation Summary Installing Install Complete 	C In a new Program Group: RSA_Connector C In an existing Program Group: Accessories C In the Start Menu C On the Desktop C In the Quick Launch Bar O Other: P Resource Side Adaptors/RSA_Connector Choose C Don't create icons C create icons for All Users	×

6 Select the location where you want to create the shortcut icon, and then click **Next**. The Get Global Properties screen appears.

RSA Connector Agent	
E De 1	Get Global Propertie
 Introduction Choose Install Folder Choose Shortcut Folder Get Global Properties Get Reconciliation/Single Get Reconciliation Param Get Reconciliation Param Get Reconciliation Summary Get Initial Component Sta Pre-Installation Summary Install Complete 	Folder in which the temporary files are to be dumped during run time. Temporary Folder C:'Program Files'HP Resource Side Adaptors'RSA_Com Number of logons after which logoff will not be ignored. Numeric.(-1 for unlimited.) Operation Session Timeout -1 Port on which the agent should listen for incoming requests. Agent Port S000 S000
nstallAnywhere by Zero G	
Cancel	Previous Next

7 Type the appropriate global properties in the text boxes. Refer to the table below for description of each property.

Serial Number	Property	Default Value	Description
1	Temporary Folder	C:\Program Files\HP Resource Side Adaptors\RSA_C onnector\temp\	The location where the agent places the temporary files created during the operation. These files are needed by the agent to perform queries on the RSA database. The default temp folder is located under the installation folder. It is recommended to keep the default location so that all the temporary files are removed automatically during uninstallation.
2	Operation Session Timeout	-1	The Operation Session Timeout gives the number of logoff requests, after which the agent will terminate the connection with the RSA server. Value -1 indicates the connection should never be disconnected.
3	Port Number	5000	The port on which the agent listens for the incoming requests.

After typing in the global properties, click **Next**. The Get Reconciliation/ Single Sign-on Credentials screen appears.

 Introduction Choose Install Folder Choose Shortcut Folder Get Global Properties Get Reconciliation/Single 	Enter The Administrative User Credentials for reconciliation and Single Sign-On
Get Reconciliation Param Edit Operational Attribute Get Initial Component Sta Pre-Installation Summany Installing Install Complete	User name in RSA that is to be used by recon while connecting to RSA. The user must be an administrator. RSA Admin UserName admin PIN to be used with recon_user by reconciliation. RSA Admin Password/PIN #***

8 Type the connection credentials for reconciliation (reverse synchronization) and click **Next**. The Get Reconciliation Parameters screen appears.

Introduction Choose Install Folder	Number of milliseconds between successive poll intervals. Poll Interval 10000
Choose Shortcut Folder	URL where the reconciliation SPMLs are to be sent. (HTTP/HTTPS)
 Get Reconciliation Single Get Reconciliation Param Edit Operational Attribute Get Initial Component Stat Pre-Installation Summary Installing Install Complete 	Si webservice ORL Inttp://iocainost./UU1/Im2/webservice Time period (in milliseconds) for which the agent waits while re-sending a failed SPML. Delay between Retries 3000 Number of times SPML manager should retry to send an SPML. No. of Retries 3 Maximum number of requests that can be accumulated in SPML manager. SPML Manager. SPML Manager.

9 Refer to the table below to type the parameters.

Serial Number	Parameter	Default Value	Description
1	Poll Interval	10000	The time interval (in milliseconds) between successive polling operations. on RSA server by agent.
2	SI Webservice URL	http://localhost:7001/ lmz/webservice	URL of Select Identity web service.
3	Delay between Retries	3000	The time period (in milliseconds) for which the agent waits before re-sending a failed SPML.
4	No. of Retries	3	The number of times the SPML manager must retry to send an SPML to Select Identity web service.
5	SPML Manager: History Limit	100	The maximum number of requests that can be accumulated in the SPML manager.
6	SPML Manager: Delay before sending SPML	5000	The time interval (in milliseconds) for which the SPML manager must wait before sending an SPML request.
7	SPML Manager: Polling Interval	10000	The time interval (in milliseconds) after which the SPML manager tries to send the accumulated requests.

 $\label{eq:linear} After typing all the parameters, click \ \textbf{Next}. \ The Edit \ Operational \ Attributes \ (op \ Attributes) \ screen \ appears.$

Introduction Choose Install Folder	Select Identity Admin Username (urn:oasis:names:tc:SPML:1:0#UserIDAndOrDomainName)	_
🗹 Choose Shortcut Folder	sisa	
 Get Global Properties Get Reconciliation/Single 	Select Identity Admin Userpassword (urn:trulogica:concero:2.0#password)	
Get Reconciliation Param	*****	
Edit Operational Attribute Get Initial Component Sta	Enter the XSL file name (Without Extension) (urn:trulogica:concero:2.0#resourceType)	
Pre-Installation Summary	RsaConnectorMappingFile	
InstallingInstall Complete	Enter the Select Identity Resource Name (urn:trulogica:concero:2.0#resourceId)	
	RSAResource	
	Enable Reverse Sync (true/false) (urn:trulodica:concero:2.0#reverseSvnc)	

10 Refer to the table below to type the parameters.

Serial Number	Text Box Label	Default Value	Description
1	Select Identity Admin Username (sisa	Type the Select Identity user name with administrative privilege.
2	Select Identity Admin Userpassword	****	Type the password for the above mentioned user.
3	Enter the XSL Filename (Without Extension)	RsaConnectorMappi ngFile	Type the name of the XSL file extracted from the schema file (without the extension .xsl).
4	Enter the Select Identity Resource Name	RSAResource	Type the name of the resource for RSA connector that will be added in Select Identity. (You must provide an identical resource name while creating a resource in Select Identity)

Select the ReverseSync check box to enable reverse synchronization and click **Next**. The Get Initial Component Status screen appears.

 Introduction Choose Install Folder Choose Shortcut Folder Get Global Properties Get Reconciliation/Single 	Enable/Disable the cooresponding component at startup of Agent. You can however, enable/disable these components individually via the Agent console. (Values must be "true" or "false" only. Any other value will be assumed as "false" !)
 Get Reconciliation Param Edit Operational Attribute Get Initial Component Sta Pre-Installation Summary Installing Install Complete 	Forward Component Enabled? ✓ Forward Component Reverse Component Enabled? ✓ Reverse Component Cyclic Block Component Enabled? ✓ Cyclic Block Component

- 11 Enable an agent component by selecting the respective check box.
 - Select the Forward Component check box to enable forward connector operations.
 - Select the Reverse Component check box to enable reverse connector operations.
 - Select the Cyclic Block component to enable cyclic block.

After setting the component status, click $\ensuremath{\mathsf{Next}}.$ The Pre-Installation Summary screen appears.

RSA Connector Agent	
P. 1	Pre-Installation Summary
 Introduction Choose Install Folder Choose Shortcut Folder Get Global Properties Get Reconciliation/Single Get Reconciliation Param Edit Operational Attribute Get Initial Component Sta Pre-Installation Summary 	Please Review the Following Before Continuing: Product Name: RSA_Connector Install Folder: C:\Program Files\HP Resource Side Adaptors\RSA_Connector Shortcut Folder: C:\Documents and Settings\guptaani\Start Menu\Programs\HP Resource Side Adaptors\RSA_Connector
Install Complete Install Anywhere by Zero G Cancel	Disk Space Information (for Installation Target): Required: 6,427,111 bytes Available: 3,972,583,424 bytes Previous

12 Click **Install** to begin installation. After installation is complete, the Install Complete screen appears.

🖳 RSA Connector Agent	
De la	Install Complete
 Introduction Choose Install Folder Choose Shortcut Folder Get Global Properties Get Reconciliation/Single Get Reconciliation Param Edit Operational Attribute Get Initial Component Sta Pre-Installation Summary Install Complete 	Congratulations! RSA_Connector has been successfully installed to: C:\Program Files\HP Resource Side Adaptors\RSA_Connector Press "Done" to quit the installer.
InstallAnywhere by Zero O	
Cancel	Previous Done

13 Click Done.

Starting the Agent

The RSA connector agent runs as a console application on the RSA ACE/Server machine. You must perform some additional steps on RSA while starting the agent for the first time.

Configure RSA ACE/Server to Start the Agent for the First Time

Perform the following steps to configure RSA ACE/Server to run the agent for the first time:

1 Open RSA Database Administration - Host Mode.



2 On the menu bar, click System $\rightarrow \square$ Edit System Parameters. The System Parameters dialog box appears.

System Parameters	×
License ID: 99720282 Customer name: Persistent Systems Pvt Ltd	
 Allow agent host auto-registration Automatically delete replaced tokens from database Store time of last login in token records Allow Push DB Assisted Recovery Allow remote administration 	
All user passwords expire in (1-365): 090 day(s)	
Administrator authentication methods: SecurID Cards and Fobs Lost Token Passwords	
PIN Options: Vul> User-created PINs allowed Min PIN length [4]: 4 Max PIN length [8]: 8)
RSA ACE/Server Date and Time: Current server date and time: 09/29/2005 04:28:58 (UTC) Computed offset currently applied: 0 sec.	
Set clock offset to 0 Set clock offset by token	
OK Cancel Help	

Perform the following in this dialog box:

- a Select the User Passwords check box.
- b Set the values for Min PIN Length and Max PIN Length according to your requirement. By default, Min PIN Length is set to 4 and Max PIN Length is set to 8.

Start the Agent

To run the agent as a console application, perform the following:

- 1 Go to the installation directory of the agent.
- 2 Double-click the runAgent.cmd file.

Modifying Configuration Settings

Most of the configuration properties of the agent are set at the time of agent installation. After installing the agent, you can change these configuration settings by editing the following files:

- properties.ini
- opAttributes.properties
- developer_configurations.properties
- runAgent.cmd

properties.ini

The properties.ini file is available in the <*Install_Dir*>/conf/ folder where <*Install_Dir*> is the agent installation location mentioned in step 5 on page 15. All the configurable properties of this file are listed in the table below.

Serial Number	Configuration Property	Description	Sample Value
1	spml_manager_interval	The time interval (in milliseconds) after which the SPML manager must try to send the accumulated requests.	5000
2	spml_delay	The time interval (in milliseconds) for which the SPML manager must wait before sending an SPML request.	5000
3	session_timeout	Number of logons after which logoff will not be ignored.	100
4	recon_user	The user name in RSA that is to be used while connecting to RSA. The user must be an administrator.	user1
5	recon_user_password	The PIN to be used with recon_user by reconciliation.	1000
6	history_limit	The maximum number of requests that can be accumulated in the SPML manager.	100
7	spml_retries	The number of times the SPML manager must retry to send an SPML.	3
8	resend_delay	The time interval (in milliseconds) for which the agent waits while re-sending a failed SPML.	3000
9	initially_reconciliation_ru nning	Whether to start reconciliation module at start up	True
10	initially_forward_running	Whether to start forward module at start up.	True
11	initially_cyclic_block_runn ing	Whether to start cyclic blocking at start up.	True
12	temporary_folder	The location where the agent places the temporary files created during the operation.	C:/temp/

Serial Number	Configuration Property	Description	Sample Value
13	concero_server_url	The URL where the reconciliation SPMLs are sent.	http:// SIServer:7001/ lmz/webservice
14	poll_interval	The time interval (in milliseconds) between successive polling operations on RSA server by agent.	10000
15	AGENT_PORT	The port on which the agent listens for the incoming requests.	5000

opAttribute.properties

The opAttribute.properties file is available under <*Install_Dir*>/conf/. This file contains the attributes that are included in the reconciliation SPML requests. The following table lists all the operational attributes:

Serial Number	Configuration Property	Description	Sample Value
1	urn:trulogica:concero:2.0# reverseSync	This property determines whether reconciliation is enabled or not. It is set to true if reconciliation is enabled.	true
2	urn:trulogica:concero:2.0# resourceId	Name of the resource on Select Identity.	RSAResource
3	urn:oasis:names:tc:SPML: 1:0#UserIDAndOrDomain Name	Select Identity user name with administrative privilege.	sisa
4	urn:trulogica:concero:2.0# resourceType	Reverse mapping file (XSL transformation file) name without any extension.	RsaConnectorM appingFile
5	urn:trulogica:concero:2.0# password	Select Identity password for the user with administrative privilege.	abc123

developer_configurations.properties

The developer_configurations.properties file is available under <*Install_Dir*>/ conf/. This file contains advanced configuration properties. The following table lists all the properties:

Serial Number	Configuration Property	Description	Sample Value
1	last_log_entry_num	Number of the last log entry in RSA logs. Agent starts reading logs from this position	300000
2	SUPPORTED_ENTITIES _STRING	Comma separated list of entities that are to be monitored by the reconciliation module. If an entity is removed from the list (for example, group), its add, modify, and delete requests will not be sent. However link of that entity with other enabled entities (for example, User) are still monitored.	User,group,site, agent_host. Entities from the following set are supported and the values are case sensitive: {User,group,site, agent_host}

runAgent.cmd

You can edit this file to modify the connection timeout setting. This setting decides how long the agent must wait after sending an SPML request to Select Identity. Perform the following to edit this setting:

- 1 Open the runAgent.cmd file with the help of a text editor.
- 2 Look for the line beginning with set CONCERO URL TIMEOUT=.
- 3 Set this property (CONCERO_URL_TIMEOUT) to desired value (in milliseconds). By default, it is set to -1.

Updating the Agent with Password Changes

While installing the agent, you must provide the following passowrds:

- Password of Select Identity user with administrative privilege
- Password (PIN) of RSA user with administrative provilege

If one of these passwords are changed after agent installation, you must update the agent with the change information. The password encrypt utility provided with the agent helps you update the agent with the change information.

Update the Agent with RSA Password Change

Perform the following steps to update the agent with RSA password change:

- 1 Open command prompt.
- 2 Go to the *<agent_install_directory>* (the location where the agent was installed).
- 3 Run the following command:

passwordEncrypt.cmd -p <new_password>

where <*new_password*> is the new RSA password (PIN).

The password encrypt utility updates the properties.ini file with the new RSA password (PIN) in encrypted format.

Update the Agent with Select Identity Password Change

Perform the following steps to update the agent with RSA password change:

- 1 Open command prompt.
- 2 Go to the *<agent_install_directory>* (the location where the agent was installed).
- 3 Run the following command:

passwordEncrypt.cmd -s <new_password>

where <*new_password*> is the new Select Identity password.

The password encrypt utility updates the <code>opAttributes.properties</code> file with the new Select Identity password in encrypted format.

Verifying the Agent Operation

After you start the agent, it listens to the specified port. To verify whether the agent is listening to the specified port or not, perform the following steps:

- 1 Open the command prompt.
- 2 Run the following command:

telnet localhost <port_number>

where *<port_number>* is the port assigned to the agent.

If the agent is listening to the port, a clear screen appears as shown below.



If the agent is not listening to that port, the following error appears:

Connecting to localhost...Could not open a connection to host on port port_number>: Connect failed

Getting Help

The agent runs as a console application on the command prompt. To view the command line help options, type **help** in the agent console. It displays a list of all the commands supported by the agent.

Select C:\WINNT\	system32\cmd.exe			
In initialize	(): parameters m	atched: [4]elp		
Type 'HELP' for	r this help.			
Following Comma	ands are support	ed by the cons	ole	
start	<forward></forward>	: Enable the	processing of forward	requests from
Concero (JCA :	side).			
	<pre></pre>	n> ∶En	able the reconciliation	generated by
RSA Agents.				
	(server)	: Start the	Agent enabling both <for< td=""><td>rward> and <r< td=""></r<></td></for<>	rward> and <r< td=""></r<>
econciliation>	• • • • • • • • • • • • • • • • • • •			
	e.g. "start fo	rward" will en	able the forward connect	tor.
stop	<forward></forward>	: Disable th	e processing of forward	requests fro
m Concero (JCA	side).			
Statements 20	<pre><reconciliatio< pre=""></reconciliatio<></pre>	n> : Di	sable the reconciliation	n generated b
y RSA Agents.				
and the second	<server></server>	: Stop the A	gent Disabling both <fo< td=""><td>rward> and <r< td=""></r<></td></fo<>	rward> and <r< td=""></r<>
econciliation>				
restar	t <forward></forward>	: Disable Th	en Enable the processing	g of forward
requests from (Concero (JCA sid			
27 27 27 27 27 27 27 27 27 27 27 27 27 2	<pre></pre>	1) : Di	sable Then Enable the re	econciliation
generated by l	RSA Agents.			
100 C	<server></server>	: Restart th	e Agent Disable Then Ena	able both <fo< td=""></fo<>
rward> and <ree< td=""><td>conciliation>.</td><td></td><td></td><td></td></ree<>	conciliation>.			
100 0	e.g. "stop for	Jard" will Dis	able the forward connect	cor.
load	<config></config>	: Loads the	Configuration from the	file 'Propert
ies.ini'.				
10110-000000000000000000000000000000000	e.g. "load con	ig" will load	the configuration.	
status		: Displays t	he status of the Applica	ation Compone
nts.				
getconi	fig <key></key>	: Gets the v	alue of the <key> from 1</key>	the Configura
tion.				
setcon	tig <key>=<value< td=""><td>> : Sets & Com</td><td>mits the value of the <</td><td>key> in the C</td></value<></key>	> : Sets & Com	mits the value of the <	key> in the C
onfiguration.			2	
show of	perationalattrib	ites: Shows th	e values of.	
Exit		: Exit Appli	cation.	
2				

5 Configuring the Connector with Select Identity

This chapter describes the procedure to configure the RSA connector with Select Identity. At the end of this chapter, you will know the procedure to configure the RSA connector with Select Identity.

Configuration Procedure

After you deploy the connector RAR on application server, you must configure the connector with Select Identity. Perform the following steps to configure the RSA connector with Select Identity.

- 1 Add a New Connector
- 2 Add a New Resource
- 3 Map Attributes

Add a New Connector

Add a new connector in Select Identity by using the user interface. While adding the connector, do the following:

- In the Connector Name text box, specify a name for the connector.
- In the Pool Name text box, enter **eis**/RSAConnector.
- Select No for the Mapper Available section.

Figure 2 Manage Connectors Page

anage Connectors		
1d, modify and delete connectors on th	nis page.	
Current Resource Connectors		
Current Resource Connectors	Pool Name:	Mapper Available:

Refer to the *HP OpenView Select Identity Connector Deployment Guide* for detailed information on adding a new connector in Select Identity.

Add a New Resource

Add a new resource in Select Identity that uses the newly added connector. Refer to the *HP OpenView Select Identity Connector Deployment Guide* for detailed instructions on adding a resource in Select Identity.

Refer to the following table while entering the parameters in the Basic Information and the Access Information pages:

Field Name	Sample Values	Description	Comment
Resource Name	RSAResource	Name given to the resource.	The resource name must be same as the resource name mentioned in step 10 on page 18.
Connector Name	RSA	The newly deployed connector.	
Authoritative Source	Yes	Whether this resource is a system that is considered to be the authoritative source for user data in your environment. You must specify Yes because the connector can synchronize account data with the Select Identity server.	
Mapping File	RsaConnectorM appingFile.xm l	The attribute mapping XML file.	
Username	Administrator	The administrative user name of RSA ACE/Server.	
Machine name of agent	sint4	The hostname of the machine where the agent is installed (resource machine).	
Password	P4SSW0rd	The administrative password of RSA ACE/Server.	
Database file of RSA log	C:/RSA_Setup/ ace/data/ sdlog.db	The location on resource system where the log of RSA Server is located.	
Agent port	5000	The port on the resource machine allocated for the agent. The agent listens to this port.	The port number must be same as the port number mentioned in step 7 on page 16.
Database file of RSA server	C:/RSA_Setup/ ace/data/ sdserv.db	The location on resource system where the database files of RSA Server is located.	

Table 5Resource Configuration Parameters

Figure 3	Resource	Basic	Information	Page
----------	----------	-------	-------------	------

Step 1 of 2: Set up basic	information.		
Use the page to create a rea	source profile.		
Required Field *			
Resource Name:*	RSAResource		
Resource Description:	RSA Resource		
Connector Name:*	RSAConnector		
Authoritative:	⊙ Yes C No		
OVSI Password Authority:	● Yes C No Select a single Resource for OVSI password verification.		
Delete User:	⊙ Yes C No		
Resource Owner:	sisa		
	A Resource Owner is required when User Reconciliation polling is enabled		
		Next	Cancel

Figure 4 Resource Access Information Page

Step 2 of 2: Set up access in	formation.		
Define Resource parameters us	sing the fields listed below.		
Required Field *			
Mapping file.: *	RsaConnectorMappingFile.xml	[<u>View</u>]	
User Name: *	2 Administrator		
Machine name of agent.: *	2 sint21		
password: *	2 ****		
Database file of RSA log: *	C:/RSA_Set_up/ace/data/sdlog.db		
Agent port.: *	2 5000		
Database file of RSA server: *	^[2] C:/RSA_Setup/ace/data/sdserv.db		

After typing in the resource access information, perform the following:

1 Click Finish.

2 Click The User Reconciliation Policy link in the left pane. The User Reconciliation Policy page appears..

Basic Information	RSAResour	ce [.] User Reconciliation	Policy	,			
Resource Access Information							
User Reconciliation Policy	Review and edit the l	reconclitation policy set for the selected	resource.				
Resource Attribute Mapping	Resource named RS.	AResource1 successfully saved.					
Caching Policy	Recon Filter						
	Recon Filter	ExtendedSpml	RequestFilte	er			
	User Polling						
	Polling Enabled:	Г					
	Add						
	Report Policy	Brief: Ineligible Rule Op As Fail	•	Audit Enabled:	€ Yes C No		
	Resource Action	Accept	•	User Action	Rule or Auto		
	Reconciliation Workflow:	ReconciliationDefaultProcess	•	Rule Name:	(None)		
	Serial Process:	C Yes ፍ No					
	Modify						
	Report Policy	Brief: Ineligible Rule Op As Fail	•	Audit Enabled:	€ Yes C No		
	Resource Action	Accept	•	User Action	Rule or Auto	•	

3 Set Recon Filter to ExtendedSpmlRequestFilter, keep all other default settings, and then click **OK**.

Map Attributes

After successfully adding a resource for the RSA connector, you must map the resource attributes to Select Identity attributes. You can create appropriate attributes in Select Identity to be mapped with RSA ACE/Server user attributes. Refer to the *HP OpenView Select Identity Connector Deployment Guide* for information on mapping and the *HP OpenView Select Identity Administration Online Help* for information on creating attributes. While mapping attributes, refer to the following table for resource specific mapping information.

Table 6 lists all the RSA connector attributes and the corresponding Select Identity attributes to which the attributes must be mapped. The table also describes the possible values of each attribute that can be set while creating a new user by using this connector.

RSA ACE/Server Attribute	Select Identity Attribute	Description	Sample Value
bCreatePin	bCreatePin	This attribute indicates whether the user is allowed to create pin or not. Possible values are Yes/No (case insensitive). All values other than Yes are treated as No. <i>This is an optional attribute</i> .	Yes
bMustCreatePIN	bMustCreatePin	This attribute indicates whether the user is required to create a PIN or not. Possible values are Yes/No (case insensitive). All values other than Yes are treated as No. <i>This is an optional</i> <i>attribute</i> .	Yes
bTempUser	bTempUser	This attribute indicates whether the user is a temporary user or not. Possible values are Yes/No (case insensitive). All values other than Yes are treated as No. <i>This is an optional</i> <i>attribute</i> .	No
EndDate	EndDate	Specifies the date when a temporary user expires. Valid only if bTempUser is Yes. [Format — mm/dd/ yyyy]. This is an optional attribute.	08/23/2006
EndTime	EndTime	Specifies the time of day (in number of hours from mid night) when a temporary user expires. Valid only if bTempUser is set to Yes. Only integer values are allowed (0-23). [Format — hh:mm]. Minutes are rounded off to the nearest hour. For example, 10:13 is rounded off to 10:00 and 02:45 is rounded off to 03:00. This is an optional attribute.	04:00

Table 6RSA Mapping Information

RSA ACE/Server Attribute	Select Identity Attribute	Description	Sample Value
StartDate	StartDate	Specifies the date when a temporary user becomes enabled to authenticate. Valid only if bTempUser is Yes. [Format — mm/dd/ yyyy]. This is an optional attribute.	06/21/2006
StartTime	StartTime	Specifies the time of day (in number of hours from mid night) when a temporary user becomes enabled to authenticate. Valid only if bTempUser is Yes. Only integer values are allowed (0-23). [Format — hh:mm]. Minutes are rounded off to the nearest hour. For example, 10:13 is rounded off to 10:00 and 02:45 is rounded off to 03:00. This is an optional attribute.	21:00
FirstName	FirstName	String of user's first name, must be limited to 24 characters. <i>This is an</i> <i>optional attribute</i> .	John
LastName	LastName	String of user's Last name, must be limited to 24 characters. <i>This is a</i> <i>mandatory attribute.</i>	Smith
password	Password	PIN associated with password token of the user (must be a numeric value). <i>This is an optional attribute</i> .	1111
rsa_password	rsa_password	Password token of the user (must be a numeric value). This is an optional attribute.	4444
RSAResource_ ENTITLEMENTS	RSAResource_ ENTITLEMENTS	RSA groups are treated as entitlements. <i>This is an</i> <i>optional attribute</i> .	Employee

RSA ACE/Server Attribute	Select Identity Attribute	Description	Sample Value
RSAResource_KEY	RSAResource_KEY	This is an optional attribute.	
Shell	Shell	Default shell of the user, relevant for RSA installed on UNIX based platforms. It must be limited to 256 character long string. <i>This is</i> <i>an optional attribute</i> .	ksh
UserName	UserName	String of user's default login in RSA, must be limited to 48 characters. <i>This is a</i> <i>mandatory attribute</i> .	username

 Table 6
 RSA Mapping Information

You can create new attributes in Select Identity to map the connector attributes.

Figure 5 Resource Attribute Mapping

pdated.				
Resource Attribute	↓ Attribute		Sync In	Sync Ou
bCreatePin	bCreatePin	•	2	2
bMustCreatePIN	bMustCreatePin			•
bTempUser	bTempUser	-	2	V
EndDate	EndDate	•	•	▼
EndTime	EndTime	•	2	~
FirstName	FirstName	•	N	2
LastName	LastName	•	N	
password	Password	•	2	2
rsa_password	rsa_password	•	2	2
Shell	Shell		2	
StartDate	StartDate	•	2	V
StartTime	StartTime		•	V
UserName	UserName	•	2	
RSAResource_ENTITLEMENTS	RSAResource_ENTITLEMENTS	Ŧ	N	•
RSAResource_KEY	RSAResource KEY	-	V	V

Refer to *Service Studio* chapter of *HP OpenView Select Identity Administration Online Help* for information adding a new attribute to Select Identity.

Attribute Behavior

The set of RSA attributes can be broadly classified into three categories:

Class 1: password and rsa_password

The password attribute represents the PIN on RSA resource and the rsa_password represents the Password Token on RSA resource. When you mention the password attribute during user creation, you must also provide the rsa_password attribute. These two attributes cannot be modified from Select Identity during modify user operation. Do not include these attributes in Modify View form. use reset password for changing the password.

Class 2: Temporary User Attributes

This category consists of the following attributes:

- bTempUser
- StartDate
- StartTime
- EndDate
- EndTime

These attributes control the status of a temporary user. If bTempUser is set to Yes, other four attributes must be mentioned while creating a user. If bTempUser is set to No, other four attributes are ignored.

StartTime and EndTime attributes are specified as per local time while creating the user from Select Identity, but stored in RSA database as per GMT.

Class 3: bCreatePin and bMustCreatePIN

These attributes decide whether the user is allowed to and required to create a PIN. These can be set to Yes or No. However, if you set <code>bCreatePin</code> to No and <code>bMustCreatePIN</code> to Yes, Select Identity throws an error as this is an invalid input.

Add Service

After mapping the attributes, you must add a service to which you can associate the newly created resource. Perform the following steps to add a service:

- 1 Click Service Studio \rightarrow Services. The Service List page appears.
- 2 Click Add Service. The Add New Service: Basic Information page appears.

3 Select the settings as shown in the image below.

Jse this page to defir	e the new service.		
Service Information	n		
Required Field *			
Service Name:*	RSAService		
Service Type:*	Business Service	•	
Service Description:	RSA Service		
	-	V	
tesources:	RSAResource		
		a î	
Attributes:*	bCreatePin bMustCreatePin bTempUser		
	EndDate EndTime	ja î	
Context Attribute:*	LastName	•	
orimary User Key:*	UserName	•	

- 4 In this page, perform the following:
 - a Type a name in the Service Name text box.
 - b Select Business Service from the Service Type drop down list.
 - c Select the newly crated RSA resource in the Resources list.
 - d In the Attribute list, select all the Select Identity user attributes that have been mapped to RSA user attributes.
 - e In the Context Attribute drop down list, select LastName.
 - f In the Primary User Key drop down list, select UserName.
- 5 Click **Create**. A new service is created.

Resources Attributes Notifica	tions Services External Calls Workflow
Basic Information	Modify Service: RSAService
Attribute Values	Displays the details about the service you just created.
Attribute Properties Forms	Service has been successfully created and is in pending status. You must now Set Service Attribute Values. Service Form has been successfully created.
Service Roles Contexts	Service Information
Add Form Add Multi-Page Form Add Service Role Add Service Context Reconcile	Required Field* Service Name: RSAService1 Service Type:* Business Service Service Description: RSA Service Y Y
	Resources: 1 RSAResource
	Attributes:* bCreatePin bMustCreatePin bTempUser Endbate

6 Click Add Form. The Add Service Form page appears.

Create a new service form for the ident	tified ser	vice using this page.						
Service Form Information								
Service Form Name*:	RSA	Service_Add_form						
Self Registration View:								
Description:	RSA	Service Add View	*					
			W					
Name	Order	Display Name	Length	Mask	Require	Visible	Update	Reconfirm
✓ bCreatePin	8	bCreatePin	0	0		~	~	
Password	6	Password	0	0		~	~	
✓ bMustCreatePin	9	bMustCreatePin	0	0		\checkmark	~	
LastName	2	LastName	0	0	V	~	~	
StartTime	12	StartTime	0	0		V	~	
🔽 UserName	1	UserName	0	0		~	•	
	5	RSAResource_ENTITLEMENTS	40	0		~	~	
and the second	F			1		-	_	-

- 7 Perform the following steps in this page to create an Add form:
 - a Type a name in the Service Form Name text box.
 - **b** Select all the listed attributes other than the following attributes:
 - GUID
 - RSAResource_KEY
 - c Clear the Require check boxes for all the listed attributes other than the following attributes:
 - UserName
 - LastName
- 8 Click Create. The Modify Service Form page appears.

<u>Home</u> > <u>Service List</u> > Modify Service Resources Attributes Notifications	Services External Calls	Workflow	
Basic Information	Modify Service For	m: RSAService	
Attribute Values Attribute Properties	Select the Service Form you wa	nt to view.	
Forms	Service Form Information		
Service Roles Contexts	Service Form Name:*	(Select one)	×
Add Form Add Multi-Page Form	1		
Add Service Role Add Service Context			
Reconcile			

9 Click Add Form. The Add Service Form page appears.

Add Service Form: RS	ASer	vice						
Create a new service form for the ident	tified serv	vice using this page.						
Service Form Information								
Service Form Name*:	RSA	_Service_Mod_form						
Self Registration View:								
Description:	RSA	Service Modify View	~					
			-					
🔽 Name	Order	Display Name	Length	Mask	Require	Visible	Update	Reconfirm
✓ bCreatePin	4	bCreatePin	0	0		1	I	
Password		Password	0	0				
☑ bMustCreatePin	5	bMustCreatePin	0	0		V	~	
LastName	2	LastName	0	0	N	V		
✓ StartTime	10	StartTime	0	0		•	•	
🔽 UserName	1	UserName	0	0	N	•		
RSAResource_ENTITLEMENTS	7	RSAResource_ENTITLEMENTS	40	0		•	•	
	6	lar in i	1	1	1 —			_

- 10 Perform the following steps in this page to create a Modify form:
 - a Type the form name in the Service Form Name text box.
 - **b** Select all the listed attributes other than the following attributes:
 - Password
 - RSA_Password
 - GUID
 - RSAResource_KEY
 - c Clear all the Require check boxes other than the following attributes:
 - UserName
 - LastName
 - d Clear the Update check boxes only for the following attributes:
 - UserName
 - LastName
- 11 Click Create. The Modify Service Form page appears.

asic Information	Modify Service For	m: RSAService	
ttribute Values	Select the Service Form you war	it to view.	
Itribute Properties	Service Form Information		
arms ervice Roles	Service Form Name:*	(Select one)	×
ontexts			
Add Form Add Multi-Page Form Add Service Role			
Add Service Context			
Reconcile			

12 Select Default View from the Service Form Name drop down box. The Modify Service Page for the Default View appears.

Jse 1	this page to modify the selec	cted form.							
Serv	vice Form Information								
Ser	vice Form Name:*	F	Default View						
Self	Registration View:								
Des	cription:		Default View	*					
				Ŧ					
	Name	Order	Display Name	Length	Mask	Require	Visible	Update	Reconfirm
		1			-				
•	bCreatePin	1	bCreatePin	0	0			•	
<u>থ</u>	bCreatePin bMustCreatePin	1	bCreatePin bMustCreatePin	0	0	ব	ব	ব	
<u>ব</u> ব	bCreatePin bMustCreatePin bTempUser	1 2 3	bCreatePin bMustCreatePin bTempUser	0	0 0 0	ব ব ব	র র	র র	
ব ব ব	bCreatePin bMustCreatePin bTempUser EndDate	1 2 3 4	bCreatePin bMustCreatePin bTempUser EndDate	0 0 0	0 0 0	র র র	র র র	ব ব ব ব	
ব ব ব ব	bCreatePin bMustCreatePin bTempUser EndDate EndTime	1 2 3 4 5	bCreatePin bMustCreatePin bTempUser EndDate EndTime		0 0 0 0	ব ব ব ব	ব ব ব ব	র র র র	
বেবব	bCreatePin bMustCreatePin bTempUser EndDate EndTime FirstName	1 2 3 4 5 6	bCreatePin bMustCreatePin bTempUser EndDate EndTime FirstName		0 0 0 0 0	র র র র র	র র র র র	ব ব ব ব ব	
र र र र र र र	bCreatePin bMustCreatePin bTempUser EndDate EndTime FirstName LastName	1 2 3 4 5 6 7	bCreatePin bMustCreatePin bTempUser EndDate EndTime FirstName LastName		0 0 0 0 0	য য য য য য	র র র র র র	ব ব ব ব ব ব	

- 13 Clear all the Require check boxes other than the following attributes:
 - UserName
 - LastName
- 14 Click **Apply**. The Modify Service Form page appears.
- 15 Click Add Service Role. The Add Service Role screen appears.

this page to create a new service role	e for the identifie	d service.	
rvice Role Information			
rvice Role Name:*	RSA_Service_r	role1	
tification Events			
lotification Events		Notifications	
Approve			
ent Handlers			
ent Handlers Jequest Events		Workflow Template	
ent Handlers Jequest Events BULK/Add New User	. A 1	Workflow Template	а
ent Handlers fequest Events BULK-Add New User BULK-Add Service	A î	Workflow Template SI Provisioning Only	Д Д
ent Handlers lequest Events BLLK Add New User DELEGATD-Add New User DELEGATD-Add New User	 £1 î	Workflow Template SI Provisioning Only	رچ مه

- 16 Perform the following steps in this page:
 - a Type a name in the Service Role Name text box.
 - b For forward add operation (Add event), set Workflow template as SI Provisioning only and Default Form to the newly created Add form (step 7 on page 38).
 - c For Reconciliation event, keep the default setting.
 - d For any other operation set workflow template as SI Provisioning only and Default Form to the newly created Modify form (step 10 on page 39).
 - e Click Create. The Modify Service Form page appears.

Home > Service List > Modify Service			
Resources Attributes Notifications	Services External Calls	Workflow	
Basic Information	Modify Service Form	n: RSAService	
Attribute Values	Select the Service Form you wan	t to view.	
Attribute Properties	Service Form Information		
Service Roles	Service Form Name:*	(Select one)	•
Contexts			
Add Form			
Add Multi-Page Form			
Add Service Role			
Add Service Context			
Reconcile			

17 Click Add Service Context. The Add Service Context page appears.

Use this page to create a new Cor	text user group for the	identified service.	
Service Context Information			
Service Context Name:*	RSA_Service_	context	
Service Role:*	RSA_Service_	role1	þ
LastName:*	*		þ
Notification Event Handlers			
Notification Events		Notifications	
	.		
Event Handlers	נפן		
Event Handlers Request Events	<u>د</u> در در	Workflow Template	

18 Perform the following in this page:

- a Type the Service Context name.
- b Select the newly created Service Role (step 15 on page 40).
- c Type ***** in LastName text box.
- 19 Click Create.

6 Uninstalling the Connector

If you want to uninstall a connector from Select Identity, perform the following steps:

- Remove all resource dependencies.
- Delete the connector from Select Identity.
- Delete the connector from application server.

See *HP OpenView Select Identity Connector Deployment Guide* for more information on deleting the connector from application server and Select Identity.

Uninstalling the Agent

Perform the following steps to uninstall the agent from the RSA ACE/Server machine:

- Invoke the uninstallation wizard from the shortcut. For example, if you chose shortcut location as C:\Program Files\HP Resource Side Adaptors during installation, click Start → Programs → HP Resource Side Adaptors → RSA_Connector → Uninstall RSA_Connector. The uninstallation wizard appears.
- 2 Follow the instruction on the wizard. In the Uninstall Option screen, select Complete Uninstall.

Alternatively, if you have not selected any shortcut location for the agent, perform the following steps to uninstall:

- From Start menu, click Settings \rightarrow Control Panel. The Control Panel window appears.
- 2 In the Control Panel, double-click **Add or Remove Programs**. The Add or Remove Programs window appears.
- 3 In the Add or Remove Programs window, double-click on **RSA_Connector**. The uninstallation wizard appears.
- 4 Follow the instruction on the wizard. In the Uninstall Option screen, select Complete Uninstall.

A Troubleshooting

• Problem: While creating the RSA resource on Select Identity, an error message appears displaying Test Failed! Unable to connect to the resource: ConnectorTestFailedException, [Managed Connection reference is null. Unable to connect to the underlying EIS resource.]:

Possible Causes:

- a RSA services are not running.
- b The value of agent port entered in Select Identity while creating the resource does not match with AGENT_PORT value in properties.ini file.
- c The username entered in Select Identity during resource creation does not exist in RSA or does not have administrative privilege.

Solutions:

- a On the resource machine, open RSA's Database Administration Host Mode. This starts all the necessary RSA services.
- b Provide the correct agent port information in Select Identity.
- c Enter an existing RSA username with administrative privilege while creating the resource on Select Identity.
- *Problem*: While associating a user to a group or groups, the get operation fails.

Possible Cause: The Temporary Folder mentioned during agent installation (step 6 on page 16) is not a valid location, or you do not have write access to this folder.

Solution: Make sure you mention a valid location with appropriate privilege at the time of typing the Temporary Folder during agent installation. Otherwise, you can edit this location information from properties.ini file. Refer to Modifying Configuration Settings on page 22 for more information on modifying agent configuration parameters and settings.

- *Problem*: Reset Password or Add User operations fail with one of the following error messages:
 - Sd_AssignPassword Error Alpha characters not allowed: TAConnectorException, [Sd_AssignPassword Error Alpha characters not allowed
 - Sd_AssignPassword Error Invalid Password: TAConnectorException, [Sd AssignPassword Error Invalid Password]:

Possible Cause: The password entered does not match with the constrains imposed by RSA settings.

Solution: Enter a password that matches with RSA settings. Otherwise, you must change the settings in RSA.

• *Problem*: During user creation, an error message appears displaying Function disabled due to license violation.: TAConnectorException, [Function is disabled due to license violation.]: *Possible Cause*: This error appears when the number of users exceed the number of active users in RSA database allowed by your RSA license.

Solution: The number of active users in RSA can be reduced by removing all tokens from users.

• *Problem*: An error message appears displaying Sd_AdmLogin Error User not found.: TAConnectorException, [Sd_AdmLogin Error User not found.]:

Possible Cause: The RSA administrative user you used to connect to RSA does not exist on RSA anymore.

Solution: Make sure to provide a valid username with administrative privilege while creating the resource on Select Identity.

• *Problem*: While linking a token to a user from Select Identity, an error message appears displaying Sd_AssignAnotherToken Error Token is already assigned:TAConnectorException, [Sd_AssignAnotherToken Error Token is already assigned]:

Possible Cause: The token you are trying to link is already linked to some other user. RSA does not allow you to link one token to more than one user.

Solution: Unlink the token or use another token that has not been linked to any user.

Problem: An error message appears displaying com.trulogica.truaccess.connector.exceptions.ConnectorSysException:Unable to get Connector from pool:eis/RSAConnector:Failed in getConnection (TAConnectorParamValueBean) of com.trulogica.truaccess.connector.rsa.impl.cci.EISConnectionFactory

Possible Cause: Agent may not be running or there is a problem with the port.

Solution: Verify and make sure the agent is running. Refer to Verifying the Agent Operation on page 26 for more information to check if the agent is running.

• *Problem*: Suddenly the agent stops working.

Possible Cause: This happens if the agent is stopped accidentally (by pressing Ctrl +C in the agent console).

Solution: Type Exit in the agent console to exit the console and restart the agent.

• Problem: Reconciliation stops working.

Possible Cause: At least one group in the RSA system has @ as part of its name. RSA uses @ character to seperate group name from the name of a site that the group is linked with. For example, if group g1 is linked with site s1, RSA identifies it as g1@s1.

Solution: Do not include @ character in group name.

• *Problem*: An error occurs similar to one of the following:



java	.lang.UnsupportedClassVersionError: in/co/persistent/enconnect/ucf/mware/	ex
epti	ons/HostNotRespondingException (Unsupported major.minor version 48.0)	
	at java.lang.ClassLoader.defineClassØ(Native Method)	
	at java.lang.ClassLoader.defineClass(ClassLoader.java.488)	
	at java.security.SecureClassLoader.defineClass(SecureClassLoader.java:	16
>	\sim $\%$ \sim	
	at java.net.URLClassLoader.defineClass(URLClassLoader.java:243)	
	at java.net.URLClassLoader.access\$100(URLClassLoader.java:51)	
	at java.net.URLClassLoader\$1.run(URLClassLoader.java:190)	
	at java.security.AccessController.doPrivileged(Native Method)	
	at java.net.URLClassLoader.findClass(URLClassLoader.java:183)	
	at java.lang.ClassLoader.loadClass(ClassLoader.java:294)	
	at sun.misc.Launcher\$AppClassLoader.loadClass(Launcher.java:281)	
	at java.lang.ClassLoader.loadClass(ClassLoader.java:250)	
	at java.lang.ClassLoader.loadClassInternal(ClassLoader.java:310)	
	at connectors.agent.core.ComServer.startReconciliation(Unknown Source)	
	at connectors.agent.core.ComServer.run(Unknown Source)	
	· • • • • • • • • • • • • • • • • • • •	

Possible Cause: The Java version is 1.3. Solution: You must use Java 1.4.2 or above.