



RSA ClearTrust Ready Implementation Guide For User Management Products

Last Modified 07/16/02

1. Partner Information

Partner Name	Access360
Web Site	www.access360.com
Product Name	enRole
Version & Platform	4.2
Product Description	enRole 4.2 is an enterprise software solution that centralizes control over access rights across an enterprise, managing "who has access to what" resources, based on policies or rules associated with user roles. EnRole consists of an enterprise server that is connected to a data source, including directories, HR databases, applications and more.
Product Category	User Management

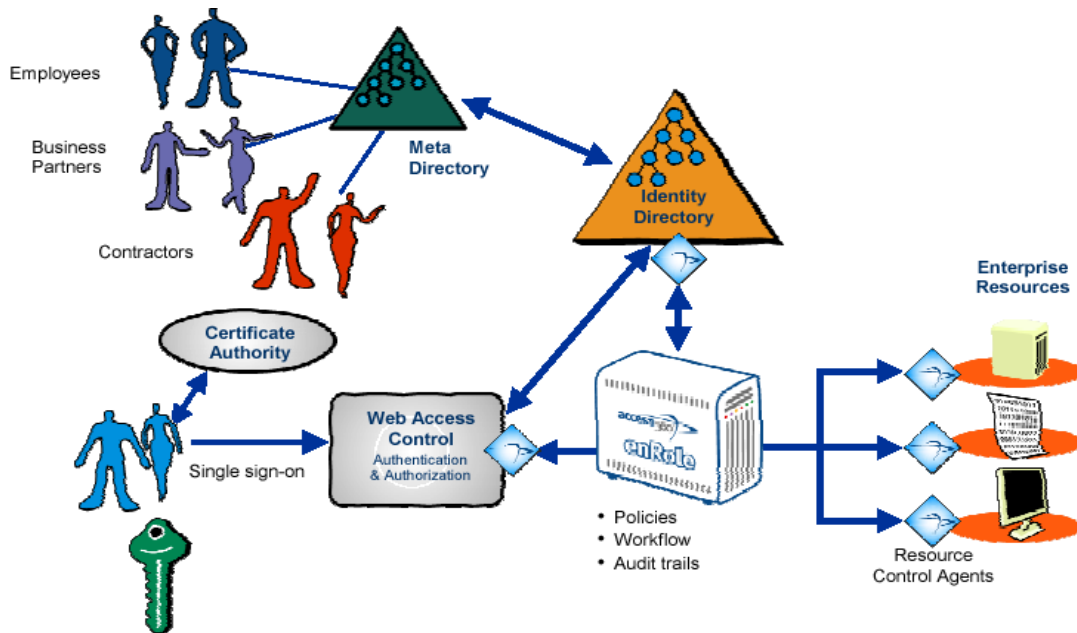


2. Contact Information

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3. Solution Summary

Feature	Details
Provisioning Method	ClearTrust Admin API
User Management	Yes
User Property Management	Yes
User Password Management	Yes
Group Management	Yes (assign group(s) to user only)
Basic Entitlements Management	No
Smart Rules Management	No
User self-service support	Yes (thru enRole Web user interface)



4. Product Requirements

Hardware requirements:

Component Name: enRole ClearTrust agent	
CPU make/speed required	32-bit Intel microprocessor-based Windows workstation/server

Software requirements:

Component Name: enRole ClearTrust agent	
Operating System	Version (Patch-level)
Windows NT	4.0 SP6
Windows	2000 SP2

Integration Modules:

Name	Location
<ul style="list-style-type: none">AgentCfg.exeCertTool.exe	Both tools are located in the default enRole ClearTrust Agent install directory of ..\Access360\ClearTrustAgent\bin

5. Product Configuration

The enRole ClearTrust 4.6.1 Agent allows administrators to manage users on a ClearTrust database system. The following section describes how to install and prepare the enRole ClearTrust 4.6.1 Agent on a Windows NT or Windows 2000 Server and is intended for security administrators responsible for installing software on their site's computer systems. Users of this guide are expected to understand enRole and ClearTrust concepts as well as be familiar with their site's system standards.

Configuration Summary

- Step 1: Copy/load the XML and DTD Files
- Step 2: Configure the XML File
- Step 3: Install the enRole ClearTrust 4.6.1 Agent
- Step 4: Activate the Agent as a Service
- Step 5: Configure the Agent
- Step 6: Install the Agent's Certificate
- Step 7: Install the Agent's Profile
- Step 8: Configure the Agent's Forms

Note: Refer to the Access360 *enRole Agent for RSA ClearTrust Installation Guide* and README file for detailed instructions.

Step 1: Copy/load the XML and DTD Files

Copy the XML and DTD files from the enRole ClearTrust Agent CD-ROM to the server to enable the agent to read the directory structure on the server. It is important to note that the XML and DTD files must be in the same directory.

C. Repeat procedure above until all ClearTrust attributes are listed in the XML file. The following is an example of a modified XML file:

```
<!-- * $Logfile: $ -->
<!-- * $Author: $ -->
<!-- * $Date: $ -->
<!-- * $Revision: $ -->
<!-- * Project: ClearTrust Agent. -->
<!-- * Purpose: Template XML mapping rules -->
<!-- * -->
<!-- * $Log: $ -->
<!-- * -->
<!-- *****/ -->

<CTRules>
    |
    <MappingRule>
        <AttributeMap CTName="Address" CType="STRING_TYPE"
ManagementName="Address"/>
        <AttributeMap CTName="AccessLevel" CType="STRING_TYPE"
ManagementName="PositionLevel"/>
        <AttributeMap CTName="Birthdate" CType="DATE_TYPE"
ManagementName="Birthdate"/>
        <AttributeMap CTName="Employee ID" CType="INT_TYPE"
ManagementName="EmployeeID"/>
        <AttributeMap CTName="Salary" CType="FLOAT_TYPE"
ManagementName="Salary"/>
    | </MappingRule>
</CTRules>
```

- D. Remove the sample AttributeMaps.
- E. Save the XML file and close the text editor.

Step 3: Install the ClearTrust Agent

An executable install program is provided for the enRole ClearTrust Agent. The following scenario used the default install parameters. For detailed info on what these setting are, please reference the *enRole Agent for RSA ClearTrust Installation Guide* located on the Agent CD-ROM.

- A. Run 'setup.exe'
- B. Define the install directory. This is the directory where the enRole ClearTrust Agent files are to be installed.
- C. Select the enRole version. Verify that the YES radio button is selected and click Next..
- D. Enter the ClearTrust server login name and password.
- E. Enter the ClearTrust hostname and port number (default is 5601).

F. Select the XML file (CTAttributeMapping.xml) previously copied from the enRole ClearTrust Agent CD-ROM in Step 2 above, and click Open.

G. Click Finish to complete the installation.

Step 4: Activating the enRole ClearTrust Agent as a Service

The enRole ClearTrust Agent is installed on the Windows Server, but the service is not active. Select the Access360 ClearTrust Agent service (Control Panel > Services) to start the ClearTrust Agent software on the target platform.

Step 5: Configure the Agent

The ClearTrust 4.6.1 Agent uses the DAML protocol to ensure secure communication with the enRole Server. Default protocol values are provided. However, you must configure the DAML protocol for your site's systems.

Refer to Section 5 of the *enRole Agent for RSA ClearTrust Installation Guide* for detailed information on running the **agentCfg** tool to complete this step.

Important: You must configure the DAML protocol before continuing on to Step 6.

Step 6: Installing the Agent's Certificate

You **must** obtain a production certificate from a well-known Certificate Authority or create your own certificate using your own Certificate Authority. The enRole ClearTrust 4.6.1 Agent does not come prepackaged with a certificate. When you install the new certificate, you will also need to install the new Certificate Authority on the enRole Server. Refer to the *enRole Server Configuration Guide* for more information.

Refer to Section 6 of the *enRole Agent for RSA ClearTrust Installation Guide* for detailed information on running the **certtool** to complete this step.

Important: If you install, modify, or delete a certificate, you **must** stop and restart the agent before the changes will take effect.

Step 7: Install the Agent Profile

Before an agent can be added as a service to the enRole Application Server, the server must have a service profile to recognize the agent as a service. The enRole ClearTrust Agent comes with a second installation script that installs the agent's profile on the enRole Application Server as a service profile.

The following describes the procedure to install and configure the enRole ClearTrust Agent profile on the enRole Application Server. Each step includes a short procedure that completes one aspect of the overall profile installation process. You must complete the steps in the order they are listed. The person completing the ClearTrust Agent profile installation must have root access to the enRole Application Server to complete the procedures in this chapter.

A. Insert the enRole ClearTrust Agent Product CD into the CD-ROM drive.

B. Complete one of the following:

- For enRole Servers installed on a UNIX platform:

- Verify the mount point for the CD-ROM.

- # df -k

- Change the working directory to the CD-ROM drive.

- # cd /cdrom

- where *cdrom* is the name of the CD-ROM drive.

- Run the ClearTrust 4.6.1 Agent profile installation script.

./instclrt.bin

- For enRole Servers installed on Windows 2000:

Select Run... from the Start menu, type your CD-ROM drive, and then type **instclrt.exe**, for example, **R:instclrt.exe**.

C. Click OK to accept the default language (English).

D. Type the enRole home directory in the text field and click Next.

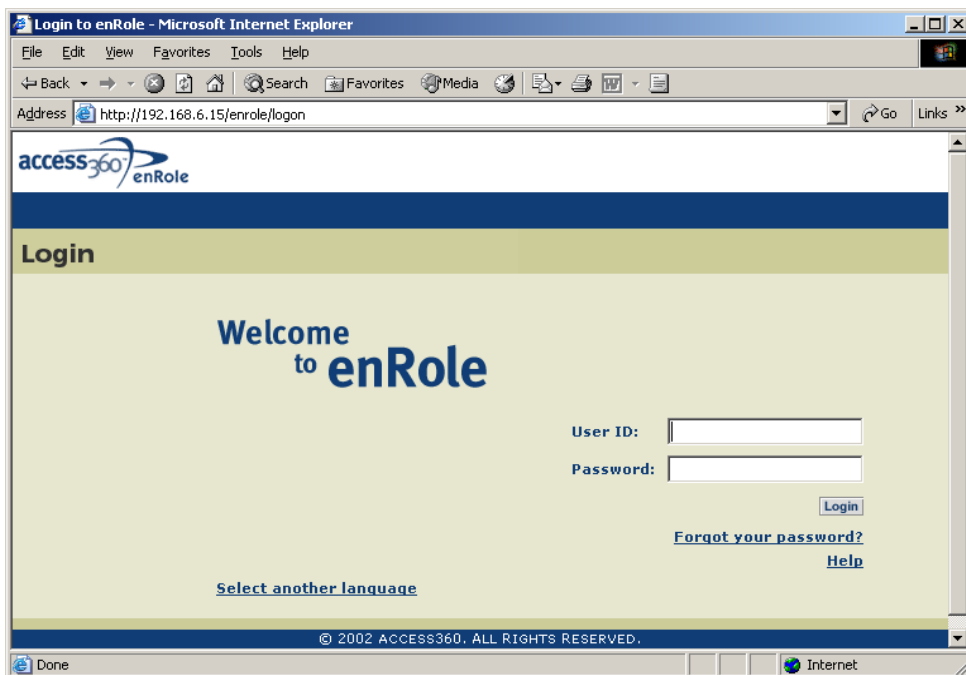
E. Click Done.

Step 8: Configuring the Agent's Forms

Configure the agent's service maintenance and account maintenance forms on the enRole Server. Refer to the *enRole Policy and Organization Administration Guide* for more information.

Example of RSA ClearTrust logon screen

Users log into user and provision (add/modify/delete) ClearTrust user using enRole. The following is the screen of the enRole Web user interface logon screen:



6. Certification Checklist for User Management Products

Date Tested: 6/19/2002

Product	Tested Version
RSA ClearTrust	4.6.1.1
enRole Enterprise Server	4.2.1
enRole ClearTrust 4.6.1 Agent	4.1.1002

Test Case	Result
Users	
Create new user	Y
Modify user properties	Y
Display user	Y
Remove user	Y
Reset user password	Y
User self-service password reset	Y
Lock out/suspend user	Y
Groups	
Create new group	N
Modify group properties	N
Display group properties	N
Remove group	N
Add user to group	Y
Remove user from group	Y
Basic Entitlements	
Create new entitlement	N
Modify entitlement	N
Display entitlement	N
Remove entitlement	N
Add user to entitlement	N
Add group to entitlement	N
Remove user from entitlement	N
Remove group from entitlement	N
Smart Rules	
Create new Smart Rule	N
Modify Smart Rule	N
Display Smart Rule	N
Remove Smart Rule	N

MPR

*P=Pass or Yes F=Fail N/A=Non-available function

Note: All test cases were performed via the User Management Administrative Interface

7. Known Issues

- This release of the enRole ClearTrust agent only supports the enRole DAML (HTTPS) protocol. A digital certificate is required to establish SSL communication and the certificate must be compatible with RSA's BSAFE libraries.
- To customize the agent to support any user defined attributes, update the CTAttributeMapping.xml, the xforms.xml, and the schema.dsml file.
- At the time of this writing, the enRole ClearTrust Agent for 4.6.1 does not work with ClearTrust 4.7 or 4.7.1. RSA is currently working with Access 360 to resolve this issue.