

Oracle® Enterprise Single Sign-On Suite Plus

Installation Guide

Release 11.1.2

E27157-02

August 2012

Oracle Enterprise Single Sign-On Suite Plus, Installation and Setup Guide, Release 11.1.2

E27157-02

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Preface

The *Oracle Fusion Middleware Oracle Enterprise Single Sign-On Suite Plus Installation Guide* explains how to prepare your environment for installation of each suite application, install each of the suite applications, and complete the necessary post-installation tasks.

Audience

This guide is intended for experienced administrators responsible for the planning, implementation and deployment of applications. Administrators are expected to have solid knowledge of directory environments, permission structures, domain administration, and databases.

Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support.

For information, visit <http://www.oracle.com/support/contact.html> or visit <http://www.oracle.com/accessibility/support.html> if you are hearing impaired.

Related Documents

For more information, see the other documents in the Oracle Enterprise Single Sign-On Suite Plus documentation set for this release.

Oracle Enterprise Single Sign-On Suite Plus

Release Notes

Installation Guide

Administrator's Guide

Secure Deployment Guide

User's Guide

Oracle Enterprise Single Sign-On Logon Manager

Deploying Logon Manager with Microsoft Active Directory

Deploying Logon Manager with Microsoft Active Directory Application Mode and Active Directory Lightweight Directory Services

Deploying Logon Manager with a Lightweight Directory Access Protocol Directory

Template Configuration and Diagnostics for Windows Applications

Template Configuration and Diagnostics for Web Applications

Template Configuration and Diagnostics for Mainframe Applications

Oracle Enterprise Single Sign-On Provisioning Gateway

Administrator's Guide

Command Line Interface Guide

Oracle Identity Manager Connector Guide

Sun Java System Identity Manager Connector Guide

IBM Tivoli Identity Manager Connector Guide

Oracle Enterprise Single Sign-On Universal Authentication Manager

Administrator's Guide

User's Guide

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Before You Install Oracle Enterprise Single Sign-On Suite Plus

Before you install Oracle Enterprise Single Sign-On Suite Plus, read the information contained in this section carefully and follow it closely. This section contains the following topics:

- [Overview of the Oracle Enterprise Single Sign-On Suite Plus Installation Process](#)
- [Contents of the Oracle Enterprise Single Sign-On Suite Plus Master Archive](#)

Overview of the Oracle Enterprise Single Sign-On Suite Plus Installation Process

Oracle Enterprise Single Sign-On Suite Plus handles all tasks related to granting users access to applications, including automatic sign-on, application password change, Windows password reset, kiosk session management, application credential provisioning, as well as strong authentication inside and outside of the session.

Oracle Enterprise Single Sign-On Suite Plus consists of the following components:

- Oracle Enterprise Single Sign-On Logon Manager – provides single sign-on functionality.
- Provisioning Gateway – provides remote credential provisioning capability.
- Password Reset – provides the self-service password reset ability. Consists of the following components:
 - Password Reset Client - installed as a selectable component during the Logon Manager installation.
 - Password Reset Server components.
- Kiosk Manager – provides session and application management for kiosk environments.
- Universal Authentication Manager – provides strong authentication inside and outside the Windows session.
- Anywhere – provides the ability to deploy custom-configured installation packages to end-user workstations not connected to the enterprise network.

The following is a high-level overview of the suite installation process:



If this installation is an upgrade, please refer to the "Upgrading an Existing Installation..." section for the selected component(s).

1. Determine which components of the Oracle Enterprise Single Sign-On Suite Plus and their features you will be installing, based on the business requirements of your organization.
2. Ensure that supporting software listed in [Required Supporting Software](#) has been installed on the target machine(s). Refer to the *Oracle Enterprise Single Sign-On Suite Plus 11.1.2.0.0 Release Notes* for a per-application list of requirements.
3. Obtain and decompress the appropriate installer archive. See [Contents of the Oracle Enterprise Single Sign-On Suite Plus Master Archive](#) for the description of its contents.
4. Complete the installation steps in this guide for each component you've chosen to install.
5. If any problems arise during the installation or post-installation tasks, see [Troubleshooting Oracle Enterprise Single Sign-On Suite Plus Installation Issues](#).

Required Supporting Software

In order to install and function properly, the Oracle Enterprise Single Sign-On Suite Plus applications require the following third-party supporting software to be installed on the target machines if it has not already been installed:

- **The Windows Installer InstallScript redistributable (isscript1150.msi).** You must install this package for the Agent and Console installers to run unless your machine already has this package installed. It can be obtained from <http://consumerdocs.installshield.com/selfservice/viewContent.do?externalId=Q108322>.
- **The Microsoft .NET 2.0 framework (dotnetfx20.exe).** It can be obtained from <http://www.microsoft.com/en-us/download/details.aspx?id=19>.
- **The Microsoft .NET 4.0 "Full Profile" framework (dotNetFx40_Full_x86_x64.exe).** You must install this package for the Console to run if your machine does not already have the .NET Framework version 4.0 installed. It can be obtained from <http://www.microsoft.com/en-us/download/details.aspx?id=17718>.
- **The Microsoft Visual C++ 2010 runtime library (vcredist_x86.exe).** You must install this package for the Agent and Console to run if your machine does not already have this redistributable installed. It can be obtained from <http://www.microsoft.com/en-us/download/details.aspx?id=5555>.

Contents of the Oracle Enterprise Single Sign-On Suite Plus Master Archive

The following section describes the purpose of the files contained in the Oracle Enterprise Single Sign-On Suite Plus master archive. The archive contains the following folders:

- [ESSO Logon Manager 11.1.2.0.0](#)
- [ESSO Password Reset 11.1.2.0.0](#)
- [ESSO Provisioning Gateway 11.1.2.0.0](#)
- [ESSO Universal Authentication Manager 11.1.2.0.0](#)
- [ESSO Anywhere 11.1.2.0.0](#)
- [Reporting](#)

The archive root also contains a PDF file, "ESSRN.PDF," which contains the product release notes.

Contents of the Logon Manager Folder

The contents of this folder are as follows:

- **ESSO Administrative Console.msi** - the Oracle Enterprise Single Sign-On Administrative Console installer.
- **ESSO-LM.msi** - the 32-bit Logon Manager installer.
- **ESSO-LMx64.msi** - the 64-bit Logon Manager installer.
- **BIP Reports** - report files for generating usage reports for Oracle Enterprise Single Sign-On Suite Plus applications with Oracle Business Intelligence Publisher.
- **Language Transforms** - MSI installer language transform files that allow you to launch the Logon Manager installer in a specific supported language.
- **Utility** - folder that contains supplementary software and unsupported Logon Manager troubleshooting tools. These are:
 - **SSOHiddenWindowResponse.exe** - the Hidden Window Response utility. Use this utility to allow Logon Manager to detect hidden application windows by window title and class. For more information, see the guide, *Using the Hidden Window Response Utility*, available in the [online documentation center](#).
 - **ssoSCDetect.exe** - SmartCard detection tool. When troubleshooting logon issues with the SmartCard authenticator, run this tool to determine whether Logon Manager can see an inserted SmartCard.
 - **TraceController.exe** - the Trace Controller utility. Use this utility to enable and manage trace logging in Logon Manager and other Oracle Enterprise Single Sign-On Accelerator Suite applications.

For more information, see the *Oracle Enterprise Single Sign-On Suite Plus Administrator's Guide*.
 - **Logon Manager Event Viewer.msi** - the Logon Manager Event Viewer installer. Installs and registers the messaging libraries required to view Logon Manager events in the Windows Event Viewer.

Contents of the Password Reset Folder

The contents of this folder are as follows:

- **ESSO-PR_Server.msi** - 32/64-bit installer for the Password Reset server-side software.

Contents of the Provisioning Gateway Folder

The contents of this folder are as follows:

- **ESSO-PG_ClientCLI.msi** - 32-bit installer for the Provisioning Gateway command-line interface client-side software. Note that installation on 64-bit environments is not supported.
- **ESSO-PG_Server.msi** - 32/64-bit installer for the Provisioning Gateway server-side software.

Contents of the Universal Authentication Manager Folder

The contents of this folder are as follows:

- **ESSO-UAM.msi** - the Universal Authentication Manager 32-bit installer. Note that installation on 64-bit systems is not supported.
- **Language Transforms** - MSI installer language transform files that allow you to launch the Universal Authentication Manager installer in a specific supported language.
- **SmartCard** - contains .reg files that enable supported smart cards.
- **Utility** - contains the command-line and graphical configuration tools, DeployTool.exe and ConfigEditor.exe and a document describing their use.

Contents of the Anywhere Folder

The contents of this folder are as follows:

- **Console** - contains the Anywhere Console installer MSI file.
- **Utility** - contains the VBS script file that adds the required MIME types to Microsoft IIS.

Contents of the Reporting Folder

The contents of this folder are as follows:

- **MSSQL** -Table setup scripts, stored procedure SQL scripts, and .NET stored procedures for the Microsoft SQL Server database.
- **ORACLE** -Table setup scripts, stored procedure SQL scripts, and Java stored procedures for the Oracle database.

Installing Oracle Enterprise Single Sign-On Suite Plus

This section describes how to install each of the Oracle Enterprise Single Sign-On Suite Plus components.

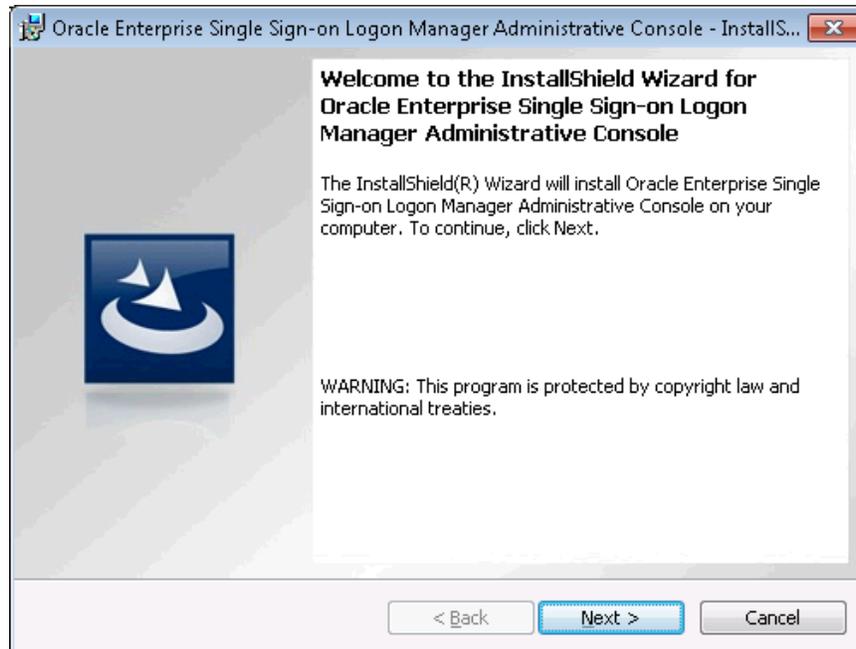
This section covers the following topics:

- [Installing the Oracle Enterprise Single Sign-On Administrative Console](#)
- [Installing Oracle Enterprise Single Sign-On Logon Manager](#)
- [Installing Oracle Enterprise Single Sign-On Password Reset](#)
- [Installing Oracle Enterprise Single Sign-On Provisioning Gateway](#)
- [Installing Oracle Enterprise Single Sign-On Universal Authentication Manager](#)
- [Installing Oracle Enterprise Single Sign-On Anywhere](#)

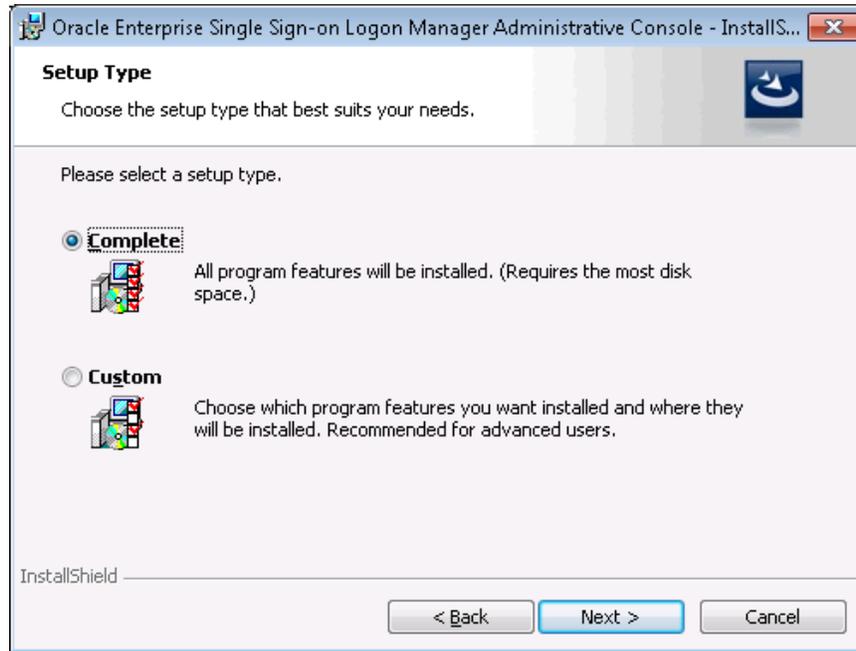
Installing the Oracle Enterprise Single Sign-On Administrative Console

To install and configure the Oracle Enterprise Single Sign-On Administrative Console:

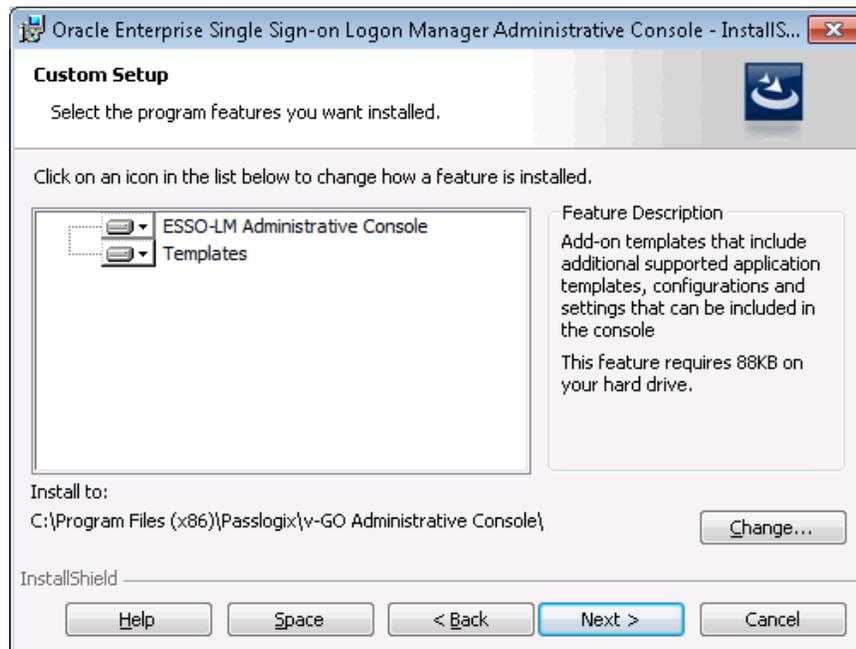
1. Close all programs.
2. Execute the **ESSO Administrative Console.msi** installer file.
3. Wait while the installer loads.
4. On the Welcome Panel, click **Next>**.

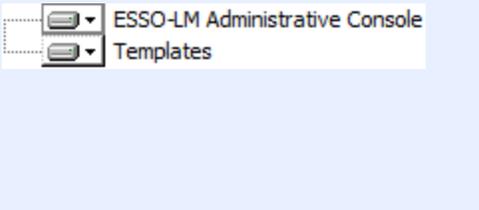
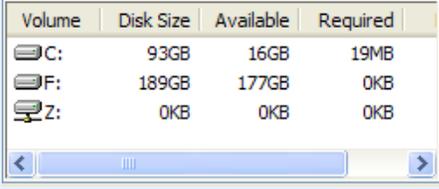


6. Select a setup type. The **Complete** option installs all program features. The **Custom** option allows you to choose which program features to install and where they will be installed. If you will be performing a custom installation, go to [Step 7](#). If not, go to [Step 8](#).

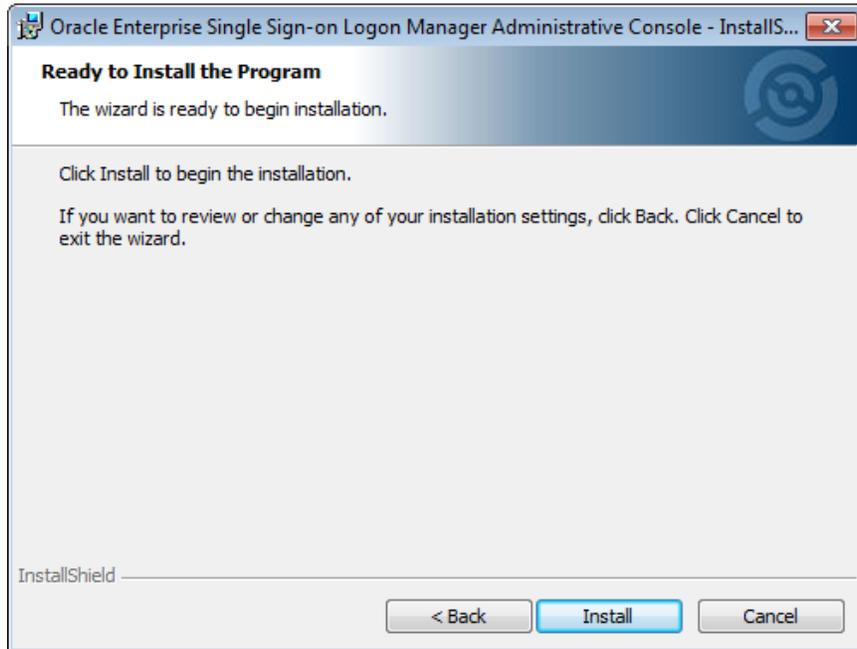


7. If you are performing a custom setup, choose from the following installation options. Click **Next** when you are done.

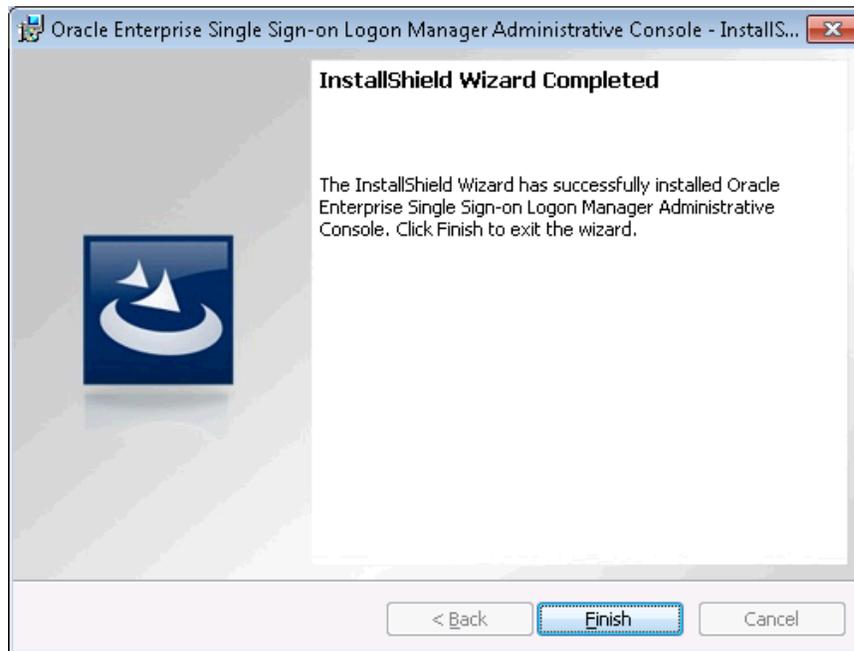


Logon Manager Administrative Console																		
<p><i>(requires 14MB of space):</i> This option installs all necessary files and settings that serve as the core foundation of the application.</p> <p>Templates <i>(requires 76KB of space):</i> Add-on templates that include additional supported application templates, configurations, and settings that can be included in the console.</p>																		
<p>Change Click this button to change the current installation destination folder for the Console. Select a different location, if desired, and click OK.</p>																		
<p>Help</p> <p>Click the Help button  to display the Custom Setup tips. Each icon indicates the state of the available feature.</p>	<p>Icon</p>   	<p>Means the Feature:</p> <p>Will be completely installed to the local hard drive.</p> <p>Will have selected subfeatures installed to the local hard drive.</p> <p>Will not be installed.</p>																
<p>Space Click Space to display the Disk Space Requirements for installing the selected features on the local servers. Click OK.</p>		 <table border="1"> <thead> <tr> <th>Volume</th> <th>Disk Size</th> <th>Available</th> <th>Required</th> </tr> </thead> <tbody> <tr> <td>C:</td> <td>93GB</td> <td>16GB</td> <td>19MB</td> </tr> <tr> <td>F:</td> <td>189GB</td> <td>177GB</td> <td>0KB</td> </tr> <tr> <td>Z:</td> <td>0KB</td> <td>0KB</td> <td>0KB</td> </tr> </tbody> </table>	Volume	Disk Size	Available	Required	C:	93GB	16GB	19MB	F:	189GB	177GB	0KB	Z:	0KB	0KB	0KB
Volume	Disk Size	Available	Required															
C:	93GB	16GB	19MB															
F:	189GB	177GB	0KB															
Z:	0KB	0KB	0KB															

8. The InstallShield Wizard is ready to begin the installation. Click **Install**.



9. Wait for the installation to complete. When the Completed screen displays, click **Finish**.



Installing Logon Manager

This section describes the steps necessary for installing Logon Manager. It covers the following topics:

- [Prerequisites for Installing Logon Manager](#)
- [Upgrading an Existing Logon Manager Installation](#)
- [Installing the Logon Manager Client-Side Software](#)
- [Completing the Installation of Logon Manager](#)

Prerequisites for Installing Logon Manager

Before you install Logon Manager, ensure the prerequisites listed in this section have been satisfied.



Please refer to the latest release notes to find out about last-minute requirements or changes that might affect your installation.

Prerequisites for Installing Logon Manager

If you are installing Logon Manager on a 64-bit (x64) system, you must use the 64-bit installer files marked with the `_x64` suffix. While the installers have been compiled for the 64-bit platform, Logon Manager itself is a 32-bit application that runs via the Windows-on-Windows 64-bit (WoW64) emulation engine and is installed into the "Program Files (x86)" parent directory. The 32-bit version of Logon Manager is fully compatible with the supported 64-bit operating systems listed below.

Oracle supports the installation of Logon Manager on the following 64-bit platforms:

- Windows Server 2003
- Windows Server 2003 R2
- Windows Server 2008
- Windows Server 2008 R2
- Windows 7

If you plan to synchronize with a database, or have the Reporting Service store application events in a database, you must install the appropriate database client in order to allow Logon Manager to connect to the database instance. Additionally, if you are installing Logon Manager on a 64-bit system and plan to connect to an Oracle database, you must install the 32-bit version of the Oracle database client on the target end-user machine; otherwise, the Reporting Service will not be able to connect to the Oracle database.

Prerequisites for Unattended ("Silent") Installations

In order to successfully install Logon Manager in unattended ("silent") mode, the Windows Management Instrumentation (WMI) service must be running before the installer is executed.

To check whether the WMI service is running, and start it if necessary, do the following on each target machine:

1. Open the System Management Console.
2. Open the **Services** snap-in.
3. Navigate to the **Windows Management Instrumentation** service and check its status and startup mode.
4. Depending on the status, do one of the following:
 - If the status is **Started**, the WMI service is running; proceed to the next section.

- If the status is blank, check the service's startup type and start it as follows:
 - If the startup type is **Disabled**, do the following:
 1. Double-click the service.
 2. In the dialog box that appears, change the startup type to **Manual** or **Automatic**, as required by your environment.
 3. Click **Apply**.
 4. Click **Start** to start the service. The status changes to **Started**.
 - If the startup type is not **Disabled**, do the following:
 1. Double-click the service.
 2. In the dialog box that appears, Click **Start** to start the service.
 3. The status changes to **Started**.
 4. Click **OK**.
- 5. Click **OK** to close the service properties dialog box.

Upgrading an Existing Logon Manager Installation

This section provides information on upgrading an existing Logon Manager installation to the latest version.

Upgrading to Logon Manager 11.1.2 is supported for the following versions of Logon Manager:

- 11.1.1.2.x
- 11.1.1.5.x

See the following Oracle Support document to determine your software version:

<https://support.us.oracle.com/oip/faces/secure/km/DocumentDisplay.jspx?id=762647.1>

Oracle fully supports installing version 11.1.2 of Logon Manager on top of existing installations of Logon Manager as listed above. The installer will uninstall the previous version automatically, and then proceed with installation of the new version. Refer to the sections in this guide for more information on installing both the Logon Manager Administrative Console and the Logon Manager Agent.



If the original installer was customized using the Logon Manager Administrative Console, you must customize the new installer in the same manner before performing the upgrade, otherwise your current Logon Manager settings will be overwritten by the defaults in the unmodified installer.

Oracle recommends that you do not change the primary logon method during an upgrade, as such a change introduces unneeded complexity to the process. Changes to the primary logon method should be undertaken as a separate project.

The following are the basic recommended steps to upgrade to Logon Manager 11.1.2.

1. Perform a backup of your existing credentials.
2. Run your installation as outlined in the sections, [Installing the Oracle Enterprise Single Sign-On Administrative Console](#) and [Installing Logon Manager](#).
3. If deploying on Microsoft Active Directory, set the **Use secure location for storing user settings** option under **Global Agent Settings > [TargetSettingsSet] > ADEXT** to **Yes** and publish this setting to the repository as an administrative override.



Only deploy this override once all instances of Logon Manager have been upgraded to version 11.1.2.0.0; otherwise, once Logon Manager 11.1.2.0.0 synchronizes with the repository, all previous versions will no longer be able to synchronize with the repository for that user. For more information on this setting, see the *Oracle Enterprise Single Sign-On Suite Plus Secure Deployment Guide*.

4. Update all of your repository objects (policies, templates, and so on) to the latest data schema used by the latest version of Logon Manager as follows:
 - a. Connect to your repository with the latest version of the Oracle Enterprise Single Sign-On Administrative Console.
 - b. Retrieve **all** of your templates, policies, and any other data from the repository and into the Console.
 - c. (Optional) Make any configuration changes in your templates and policies as desired.
 - d. Publish all of the retrieved objects back to your repository.



This procedure is mandatory and must be performed in a test environment before deploying Logon Manager to end-users. This is because the latest version of Logon Manager introduces a new data schema to its configuration objects, such as templates and policies, which is incompatible with objects created with previous versions of Logon Manager. Attempting to synchronize Logon Manager with a repository that has not been updated will result in data corruption. Oracle highly recommends that you create a separate OU in your repository to test your new configuration objects before deploying them enterprise-wide.

5. Restore your backed up credentials to the new installation.



The Passphrase Suppression setting is, as of the 11.1.5.1 release, configurable under **Global Agent Settings > [TargetSettingsSet] > Authentication > Windows v2 > Recovery Method**. The default is to display the passphrase. If you want to suppress the passphrase, you must change this setting.

Note that if you have a custom passphrase suppression (a DLL that implements the Secondary Authentication API), this DLL must return a unique GUID from its GetID function. Also, you must set the:

HKLM\Software\Passlogix\MsAuth\ResetMethods:ResetMethodGUID

registry value to that GUID.

See the *Oracle Enterprise Single Sign-On Suite Plus Administrator's Guide* more details.

6. After the installer has finished and your credentials are restored, the upgrade is complete. Refer to the *Oracle Enterprise Single Sign-On Suite Plus Release Notes* to learn about the new product features.

Installing Logon Manager Client-Side Software



If you have a previous version of Kiosk Manager installed and are updating it during this installation, you must first uninstall the previous Kiosk Manager using the **Control Panel Add/Remove Programs** or the **Uninstall** option of the earlier software installer.

For additional considerations with regard to Kiosk Manager, see the *Oracle Enterprise Single Sign-On Suite Plus Administrator's Guide*.

To install and configure Logon Manager:

1. Close all programs.
2. Execute one of the following files to begin the installation:
 - **ESSO-LM.msi** for 32-bit installations.
 - **ESSO-LMx64.msi** for 64-bit installations.

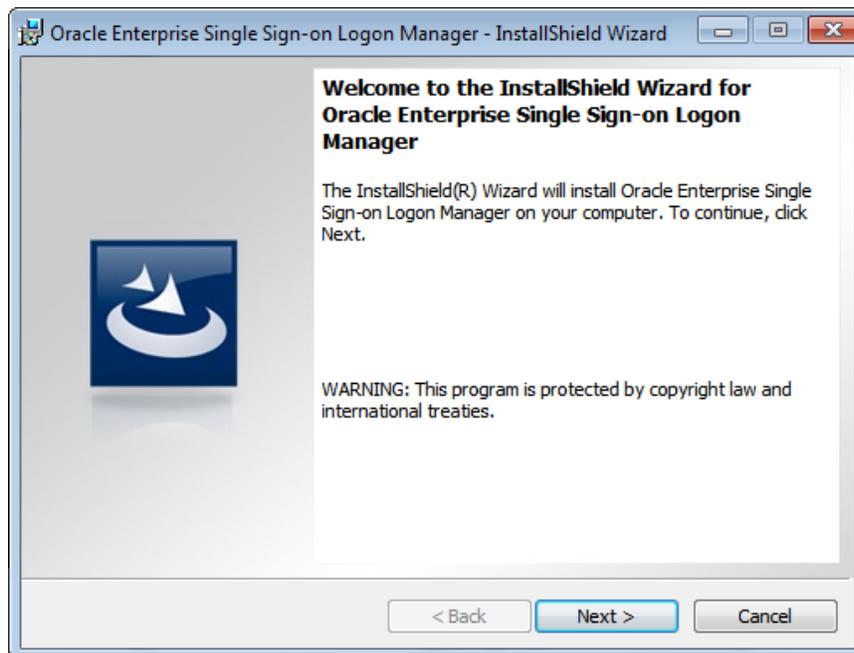


If you are installing in a language other than English and would like to launch the installer in the desired language, execute the following command:

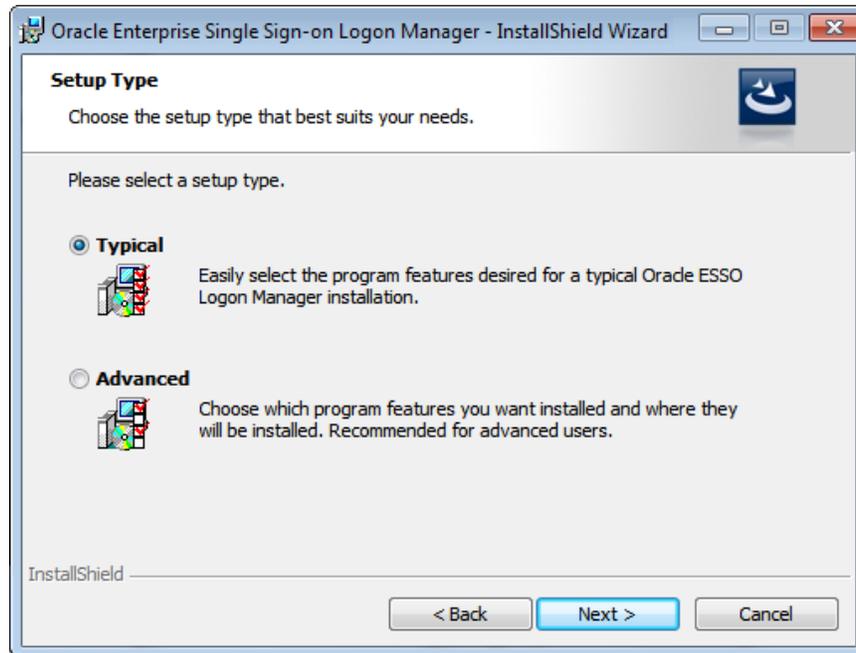
```
msiexec /I <packagename>.msi TRANSFORMS=<language>.mst
```

where <packagename> is the name of the Logon Manager installer MSI package, and <language>.mst is the name of the corresponding language transform file (included in the installer archive).

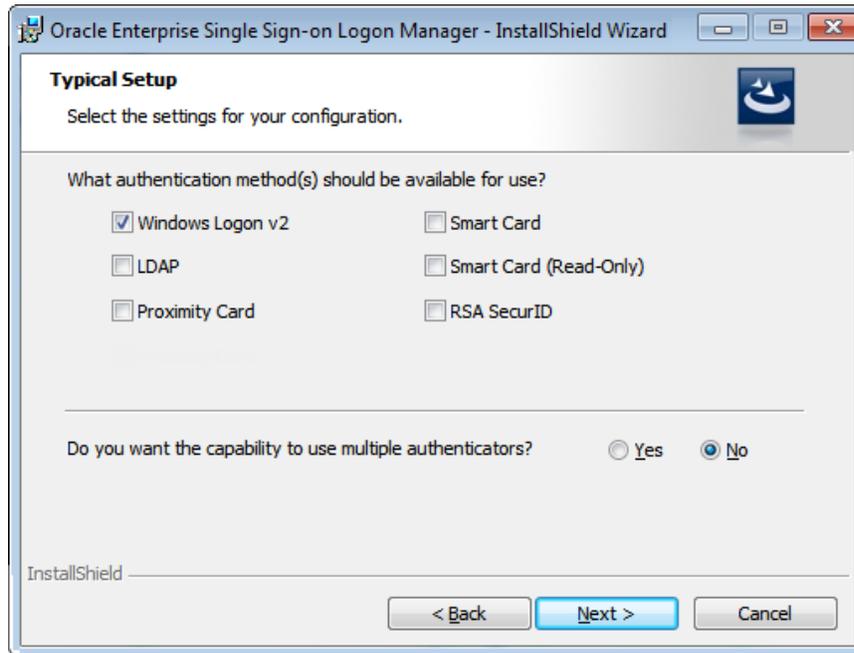
3. On the Welcome Panel, click **Next>**.



4. Select a setup type. **Typical** provides a path to select commonly used program features easily. **Advanced** provides a detailed tree view of all the program features available for installation. If you select a typical setup, follow [Steps 5 and 6](#). For an advanced setup, go to [Step 7](#). Click **Next>**.



5. The Typical Setup screen appears. Select your authentication methods and indicate whether you want to use multiple authenticators.



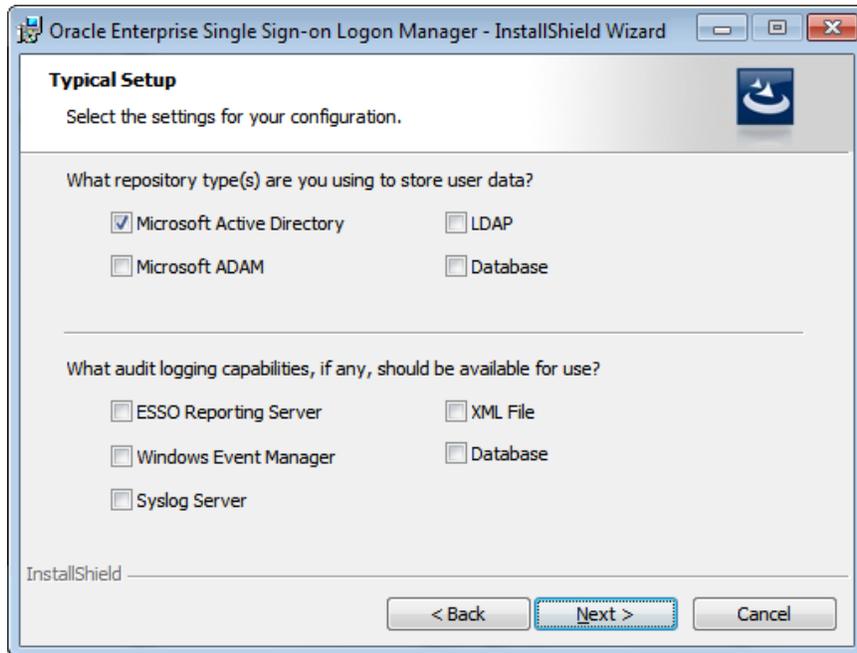
Authentication methods. In order to authenticate a user and grant access to stored credentials, Logon Manager offers a number of authentication methods implemented as authenticator plug-ins, with the most common method being a user name and password. In Active Directory environments, Logon Manager supports this authentication method through its Windows Logon (WinAuth) v2 plug-in.

If you are using a strong authentication method, refer to the *Oracle Enterprise Single Sign-On Suite Plus Administrator's Guide* which describes specific settings that must be enabled within an authenticator to work with Logon Manager. It also describes all the Logon Manager Administrative Console settings and any steps that must be taken to integrate with Kiosk Manager.

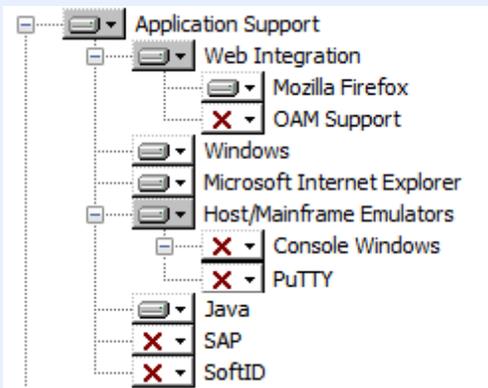
Multiple Authenticators. The Authentication Manager feature adds the capability to enable multiple logon methods to authenticate the user. These logon methods can be the standard Logon Manager supported logon methods such as LDAP and Windows Logon v2, or the strong authenticators such as smart cards, proximity devices, and RSA SecurID tokens.

Click **Next>**.

6. Select your repositories and indicate which audit logging capabilities should be installed. If you install the Oracle Enterprise Single Sign-On Reporting Server, refer to the Oracle Enterprise Single Sign-On Suite Plus [Reporting documentation](#) for configuration information. Click **Next>** and continue to [step 8](#).



7. If you are performing an advanced setup, choose from the following installation options:

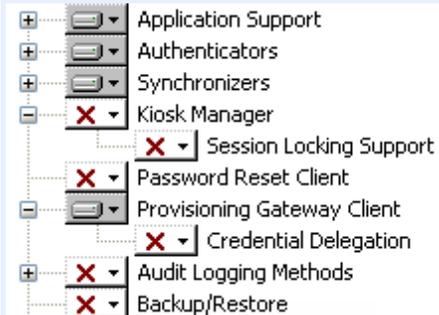
Application Support	
<p>This option installs all necessary files and settings that serve as the core of the application, and allows you to select the application types for Logon Manager to interact with.</p>	
Web Integration	Helper objects that allow integration with Web browsers and external Web services.
Mozilla Firefox	Helper object that adds Logon Manager support for Mozilla-based browsers.
OAM Support	Helper object that adds Logon Manager support for Oracle Access Manager-protected browser applications.
Windows	Support for Windows desktop applications. Windows support files are installed by default. These files cannot be deselected.
Microsoft Internet Explorer	Helper object that adds Logon Manager support for Internet Explorer. Installed by default.
Host/Mainframe Emulators	Helper object that adds Logon Manager support for HLLAPI-based emulators.
Console Windows	Support for Console windows (command prompt) within the Logon Manager mainframe plug-in.
PuTTY	Support for PuTTY windows within the Logon Manager mainframe plug-in.
Java	Helper object that adds native Logon Manager support for Java applications.
SAP	Helper object that adds SAP application support to Logon Manager.
SoftID	<p>Helper object that adds Logon Manager support for SoftID applications. See the <i>Oracle Enterprise Single Sign-On Suite Plus Administrator's Guide</i> for more information on using this feature.</p> <p>To use this helper object, the Authentication Manager Authenticator must be installed and selected as your Primary Logon Method.</p>

Authenticators	
<p>The authenticators are plug-ins that provide different methods for logging on to Logon Manager. By default, Windows Logon v2 is installed.</p> <p>The available authentication plug-ins are:</p>	
Windows Logon (deprecated)	<p>Deprecated plug-in that enables logging on to Logon Manager by logon to Windows.</p> <p>Note: Do not install this component unless explicitly instructed to do so by Oracle support. It is being provided for legacy purposes only.</p>
Windows Logon v2	<p>Plug-in that enables logging on to Logon Manager by logon to Windows with secure passphrase support. This authenticator is installed by default.</p>
GINA	<p>Module that works with the Windows Logon v2 method. The GINA option is available only for Windows XP and Windows Server 2003.</p> <p>You must select between GINA and Network Provider. It is not possible to install both methods.</p>
LDAP	<p>Plug-in that enables logging on to Logon Manager by logon to an LDAP directory.</p>
LDAP v2	<p>Plug-in that enables logging on to Logon Manager by logon to an LDAP directory. This plug-in also includes secure passphrase support.</p>
Network Provider	<p>Eliminates double authentication by utilizing the Network Provider mechanism to log on to Logon Manager. Supports all current Microsoft Windows operating systems.</p> <p><i>This feature has been moved to its own node, and is no longer a sub-feature of Windows Logon v2, as of version 11.1.1.5.1.</i></p>

Authenticators	
Proximity Card	Authenticator plug-in that supports authentication with HID Proximity Cards.
Smart Card	Plug-in that enables logging on to Logon Manager using MS-CAPI-capable smart cards.
Smart Card (Read-Only)	Plug-in that enables logging on to Logon Manager using a Read-Only Smart Card.
RSA SecurID	Plug-in that enables logging on to Logon Manager using one-time passwords generated by RSA SecurID tokens.
Local Authentication Toolkit	Components needed to perform RSA SecurID authentication.
Authentication Manager	This feature adds the capability to allow multiple logon methods to authenticate the user. If you want to use the Enrollment, Grade, and Order functionality, you must install this feature.

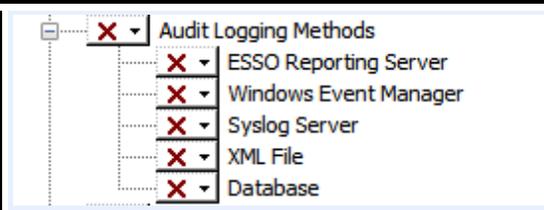
 If you are installing Proximity Card, Read-Only Smart Card, RSA SecurID, Secure Data Storage, or Smart Cards, see the *Oracle Enterprise Single Sign-On Suite Plus Administrator's Guide*.

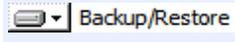
Synchronizers	
<p>This plug-in provides for the management of synchronization extensions to the application.</p> <p>The available synchronization plug-ins are:</p>	
Microsoft Active Directory	Synchronization plug-in that supports storage and retrieval of credentials and settings from an Active Directory server.
Microsoft ADAM	Synchronization plug-in that supports storage and retrieval of credentials and settings from an ADAM/AD-LDS server.
LDAP	Plug-in that supports storage and retrieval of credentials and settings from an LDAP-compliant directory, such as Oracle Identity Manager.
Database	Synchronization plug-in that supports storage and retrieval of credentials and settings from a database.
Roaming Profile (deprecated)	Synchronization plug-in that supports roaming profiles. Note: Do not install this component unless explicitly instructed to do so by Oracle support. It is being provided for legacy purposes only.
File System	Synchronization plug-in that supports storage and retrieval of credentials and settings from a file share.

Kiosk Manager	
<p>Kiosk Manager</p> <p>Plug-in that is available to support kiosk scenarios.</p>	 <p>To use Kiosk Manager, you must install the LDAP Authenticator and a synchronizer. You must also ensure that Windows Authenticator v2 is not installed.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">  Kiosk Manager and its subcomponents are only available when installing on the 32-bit versions of Windows XP and Windows Server 2003. </div> <p>Refer to the <i>Oracle Enterprise Single Sign-On Suite Plus Administrator's Guide</i> for more information.</p>
<p>Session Locking Support</p>	<p>Installs the Kiosk Manager session locking component to support kiosk scenarios. This component is not installed by default.</p> <p>If you install this component, the Kiosk Manager Agent (SMAgent) starts automatically.</p> <p>If you do not install the Kiosk Manager GINA, the Kiosk Manager Agent (SMAgent) does not start automatically, but events can be triggered through the command line from other applications. Using this scenario, you can install Kiosk Manager on a workstation and have it run only when executed.</p> <p>See the <i>Oracle Enterprise Single Sign-On Suite Plus Administrator's Guide</i> for more information on using the command-line options.</p>

Password Reset	
<p>Password Reset Client</p>	<p>Installs the client-side component of Password Reset which provides knowledge-based authentication and password reset functionality.</p> <p>You must install the Password Reset server-side component before you install the client-side component. Password reset is not installed as part of the Typical installation option. For more information on installing Password Reset, see Installing Password Reset.</p>

Provisioning Options	
Provisioning Gateway Client	<p>Installs the Provisioning Gateway client-side software that provides remote credential provisioning functionality as well as credential delegation.</p> <p>You must install the Provisioning Gateway server component (as described in Installing the Provisioning Gateway Server-Side Component) before you install the client-side software.</p>
Credential Delegation	<p>Installs the Provisioning Gateway credential delegation component, allowing a user to temporarily delegate one or more credentials to another user.</p> <p>Requires Provisioning Gateway to be installed and functional on the target machine.</p>

Audit Logging Methods	
<p>This plug-in provides for the management of event logging extensions to the application.</p> <p>The available plug-ins are:</p>	
ESSO Reporting Server	Event Management plug-in that supports logging of events to the reporting service.
Windows Event Manager	Event Management plug-in that supports logging of events to the Windows Event Manager.
Syslog Server	Event Management plug-in that supports logging of events to a Syslog server.
XML File	Event Management plug-in that supports logging of events to a local XML file.
Database	Event Management plug-in that supports logging of events to a Database.

Backup/Restore	
<p>This plug-in provides a simple file-based backup and restore mechanism via a wizard interface.</p>	

Languages

The localized language support packages that allow the Agent to be displayed in the following languages:

- English (mandatory, installed by default)
- Chinese (Simplified)
- Chinese (Traditional)
- Czech
- Danish
- Dutch
- Finnish
- French
- German
- Greek
- Hungarian
- Italian
- Japanese
- Korean
- Norwegian
- Polish
- Portuguese (Brazil)
- Portuguese (Portugal)
- Romanian
- Russian
- Slovak
- Spanish
- Swedish
- Thai
- Turkish

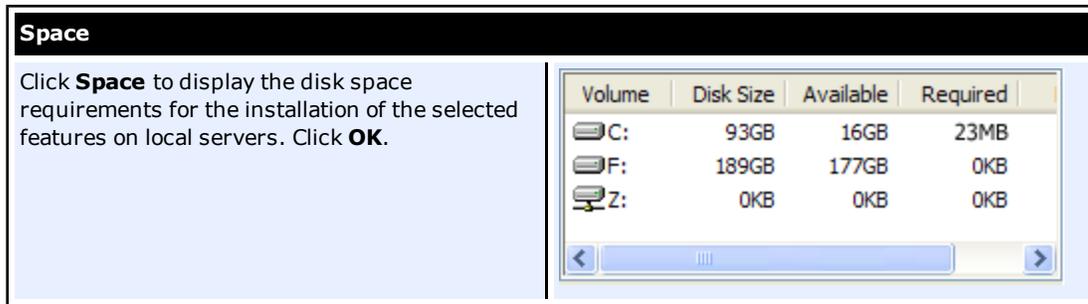
Change

Click this button to change the current installation destination folder for the Agent. Browse to the desired location and click **OK**.

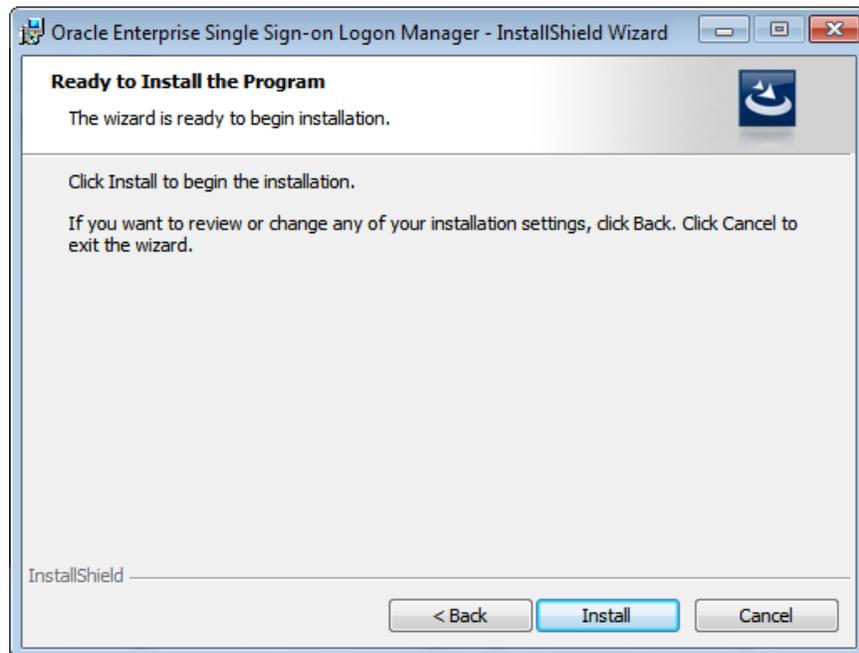
Help

Click the **Help** button  to display the Custom Setup tips. Each icon indicates the state of the available feature.

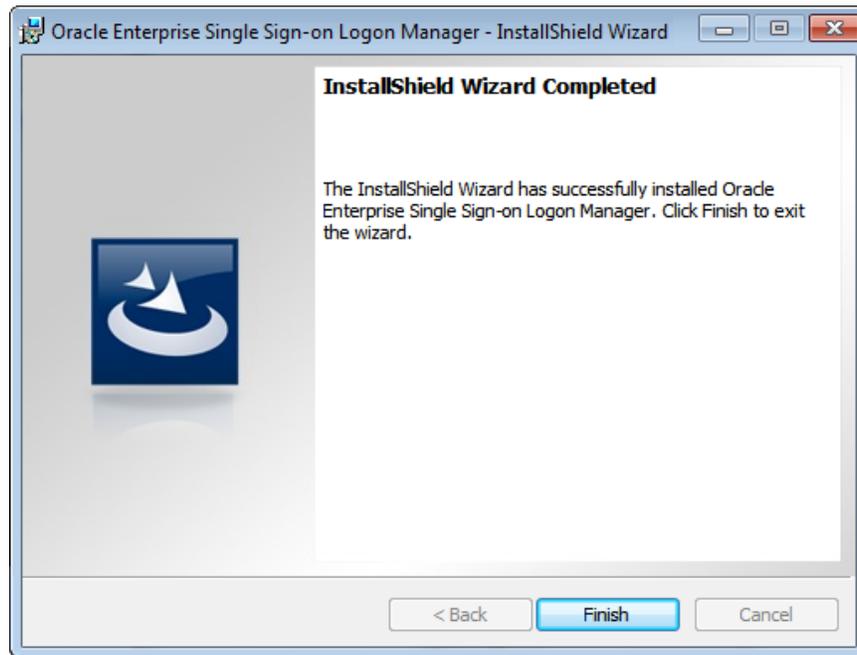
Icon	Means the feature
	Will be completely installed to the local hard drive.
	Will have some subfeatures installed to the local hard drive.
	Will not be installed.
	Will be installed on first use.
	Will be installed to run from the network.



8. The InstallShield Wizard is ready to begin the installation. Click **Install**.



9. Wait for the installation to complete. When the Completed screen appears, click **Finish**.



10. The Logon Manager installation does not require restarting, except in the following scenarios:
- If you installed the Windows Authentication v2 authenticator with the GINA or Network Provider components (Windows XP and Windows Server 2003 only), you will be prompted to restart your workstation after you click **Finish**. Continue with step 11 after restart.
 - If you installed Kiosk Manager (32-bit Windows XP and Windows Server 2003 only), you must configure Logon Manager to synchronize with one of the synchronizers that you selected during installation. Refer to the *Oracle Enterprise Single Sign-On Suite Plus Administrator's Guide* for instructions. Do not install any other GINAs if you install the SM GINA. Restart your workstation after setting up synchronization, then continue with step 11.
11. After your workstation or server restarts, log on to Windows. The Logon Manager Welcome Screen/First Time Use (FTU) Wizard launches. Follow the instructions on the screen to complete the FTU Wizard. After the FTU is complete, an icon  appears in the tool tray.

 Refer to the Oracle Enterprise Single Sign-On Suite Plus *User's Guide* and online help for information on completing the FTU Wizard and using Logon Manager.

Completing the Installation of Logon Manager

Completing the Installation of the Mozilla Firefox Support Component

In order to complete the installation of the Mozilla Firefox Support component of Logon Manager, you must do the following after installing Logon Manager:

- If Mozilla Firefox was running during the installation, close all of its instances and re-launch it,
- Ensure that the component is enabled in the "Extensions" list in the "Add-Ons" panel in Mozilla Firefox,
- Restart Logon Manager.

In the [online documentation center](#), you will find the complete set of product-specific guides for the Oracle Enterprise Single Sign-On Suite Plus. The following table lists the high-level tasks you will need to perform to complete your installation and deployment, and the documents associated with each task.

For This Task...	Refer to...
Configuring Kiosk Manager	<i>Oracle Enterprise Single Sign-On Suite Plus Administrator's Guide</i>
Configuring a repository	<ul style="list-style-type: none"> • <i>Deploying Logon Manager with Microsoft Active Directory</i> • <i>Deploying Logon Manager with Microsoft ADAM/AD-LDS</i> • <i>Deploying Logon Manager with an LDAP Directory</i>
Configuring the Agent	<i>Configuring Logon Manager Agent</i>
Configuring authenticators	<i>Oracle Enterprise Single Sign-On Suite Plus Administrator's Guide</i>
Creating templates	<ul style="list-style-type: none"> • <i>Template Configuration and Diagnostics for Windows Applications</i> • <i>Template Configuration and Diagnostics for Web Applications</i> • <i>Template Configuration and Diagnostics for Mainframe Applications</i>

Installing Password Reset

This section describes the steps necessary for installing Password Reset. It covers the following topics:

- [Prerequisites for Installing Password Reset](#)
- [Upgrading an Existing Password Reset Installation](#)
- [Installing the Password Reset Server-Side Component](#)
- [Installing the Password Reset Client-Side Component](#)

Prerequisites for Installing Password Reset

Before you install Password Reset, ensure the prerequisites listed in this section have been satisfied.



Please refer to the latest release notes to find out about last-minute requirements or changes that might affect your installation.

Prerequisites for Installing the Password Reset Client

- Because the Password Reset Client relies on the Password Reset Server to function, you must install the Password Reset Server first before you will be able to install and successfully configure the Password Reset Client component.
- If you are installing Password Reset Client and Logon Manager on the same Windows XP workstation, you cannot use the Logon Manager Network Provider logon method.
- Installing the Password Reset Client on Windows XP disables the Fast User Switching feature, which allows multiple users to be logged on to a computer at the same time and to switch among logons by pressing **Win+L**. This feature is unavailable because Password Reset utilizes a custom GINA (Graphical Identification and Authentication) component that replaces the Microsoft default GINA dynamic link library (Msgina.dll). To change logons on a Windows XP computer, a user must log off to allow the next user to log on. To do this, open Task Manager (**CTRL+ALT+DELETE**), and click **Log off**.
- If you want to use Password Reset on a workstation where Kiosk Manager is installed, refer to the *Oracle Enterprise Single Sign-On Suite Plus Administrator's Guide* for configuration information.
- The optional registry settings, AutomaticEnroll and ForceEnrollment, control whether a workstation user is asked or required to enroll in the password reset service on next logon. These values can be set by modifying the installer package; they are not added by the install wizard on the client. See [Oracle Enterprise Single Sign-On Suite Plus Configuration Reference](#) for the location and values of those settings.
- When you install the Password Reset Server, take note of the URLs for the Password Reset Web resources listed in the table below; you will enter those URLs during the installation of the Password Reset Client. Those resources, served by the Password Reset Server, provide the client with the enrollment and reset capability.

Enroll URL	Enter the URL of the Enrollment service default page: http://host/vgoelfservicereset/enrollmentclient/EnrollUser.aspx
Reset URL	Enter the URL of the reset service default page: http://host/vgoelfservicereset/resetclient/default.aspx
Check Enroll URL	Enter the URL of the Enrollment check service (checks if user is enrolled): http://host/vgoelfservicereset/resetclient/checkenrollment.aspx
Check Force Enroll URL	Enter the URL of the force enrollment check service (checks if user is forced to enroll): http://host/vgoelfservicereset/resetclient/checkforceenrollment.aspx
Check Status URL	Enter the URL of the status check service (checks for Password Reset service availability): http://host/vgoelfservicereset/resetclient/checkstatus.aspx

Prerequisites for Installing the Password Reset Server

- Review the hardware and software requirements in the *Oracle Enterprise Single Sign-On Suite Plus Release Notes* thoroughly and verify that your environment meets all requirements.
- You must use matching versions of the Oracle Enterprise Single Sign-On Administrative Console and the Password Reset server component; otherwise, unpredictable behavior may result.
- You must not install the Password Reset server-side components on a domain controller. Use a member server instead.
- Due to a Microsoft error, Digest Authentication fails if you are using Windows Server 2003 as your Web server, and Windows Server 2008 R2 as your domain controller. Microsoft has issued a hot fix to address this problem. See <http://support.microsoft.com/kb/977073> on the Microsoft Web site to read a discussion of this issue and download the hot fix.
- Ensure that DNS is configured and working properly, including correct enumeration of forward and reverse lookup zones.
- Verify that your servers and workstations have the latest service packs and Windows updates installed on them.
- If you are installing on Windows Server 2008, install the IIS 7.0 Web Server first as described in [Configuring IIS 7.0 for Password Reset on Windows Server 2008](#).
- By default, members of the "Domain Administrators" group in Active Directory are automatically added to the local "Administrators" group on the member server. If you are not a member of the "Domain Administrators" group, add yourself to the local "Administrators" group on the member server. For simplicity, the instructions in this guide assume that an "Administrator" account, which is a member of the "Schema Administrators" group is used to install and set up Password Reset Server.
- For the creation of service accounts, consider using long, complex passwords and set the accounts to lock out after a specific number of bad password attempts. These actions will prevent a hacker from successfully launching a dictionary attack on service accounts.



Generally speaking, Microsoft recommends that IIS servers be installed on member servers. For a full discussion of this matter, visit Microsoft.com.

Prerequisites for Unattended ("Silent") Installations

In order to successfully install Password Reset in unattended ("silent") mode, the Windows Management Instrumentation (WMI) service must be running before the installer is executed.

To check whether the WMI service is running, and start it if necessary, do the following on each target machine:

1. Open the System Management Console.
2. Open the **Services** snap-in.
3. Navigate to the **Windows Management Instrumentation** service and check its status and startup mode.
4. Depending on the status, do one of the following:
 - If the status is **Started**, the WMI service is running; proceed to the next section.
 - If the status is blank, check the service's startup type and start it as follows:
 - If the startup type is **Disabled**, do the following:
 1. Double-click the service.
 2. In the dialog box that appears, change the startup type to **Manual** or **Automatic**, as required by your environment.
 3. Click **Apply**.
 4. Click **Start** to start the service. The status changes to **Started**.
 - If the startup type is not **Disabled**, do the following:
 1. Double-click the service.
 2. In the dialog box that appears, Click **Start** to start the service.
 3. The status changes to **Started**.
 4. Click **OK**.
5. Click **OK** to close the service properties dialog box.

Upgrading an Existing Password Reset Installation

This section provides information on upgrading an existing Password Reset installation to the latest version.

Upgrading to Password Reset 11.1.2 is supported from the following versions of Password Reset:

- 11.1.1.2.x
- 11.1.1.5.x

When upgrading a Password Reset Server installation, do the following:

1. Backup the server settings with an export of the HKEY_LOCAL_MACHINE\Software\Passlogix\SSPR registry key.
2. Follow the instructions in [Installing the Password Reset Server-Side Component](#). After completing the installation, you must restart Microsoft IIS and verify that the required service accounts are active within the system and that Password Reset is still configured to use them.
3. (Optional) If you are upgrading an instance of Password Reset that uses an Oracle database as its repository, you must add new indexes required by Password Reset 11.1.2 by running the following queries:
 - `CREATE INDEX SSPR.UQ_USERID ON SSPR.USERQUESTIONS (USERSID) ;`
 - `CREATE INDEX SSPR.EI_USERID ON SSPR.ENROLLMENTINFORMATION (USERSID) ;`
 - `CREATE INDEX SSPR.RI_USERID ON SSPR.RESETINFORMATION (USERSID) ;`

Installing the Password Reset Server Component



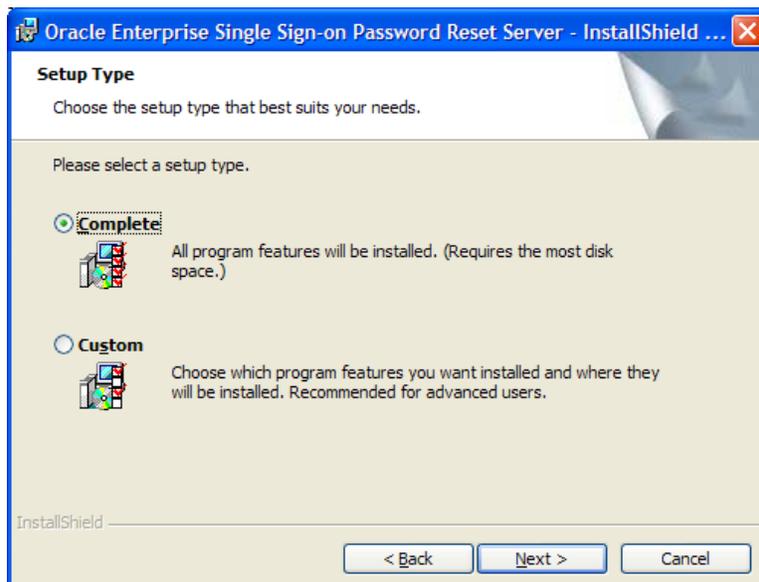
If you are installing Password Reset on Windows Server 2008, you must install Microsoft Internet Information Services 7.0 first. See the section on [configuring IIS 7.0](#) before beginning this installation.

Installation of Password Reset on Windows Server 2003 in a 64-bit environment can take up to 50 seconds to complete.

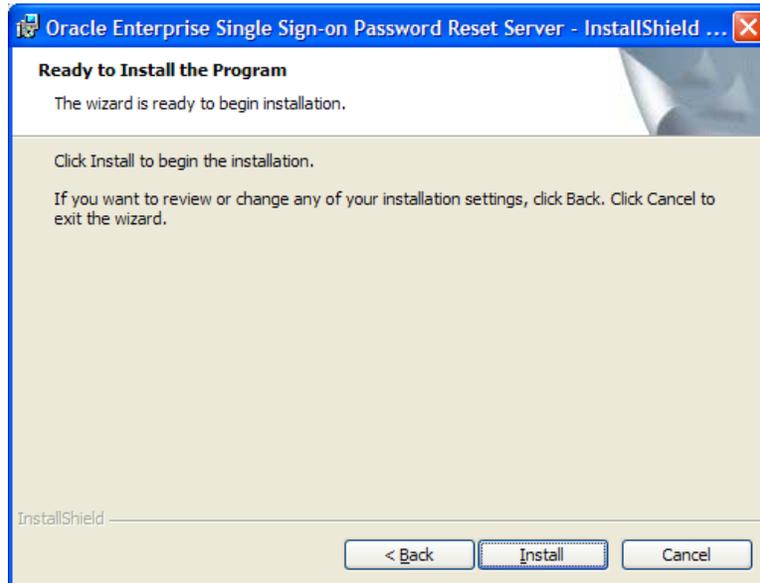
1. Close all programs.
2. Launch the **ESSO-PR_Server.msi** installer file.
3. In the "Welcome" panel, click **Next**.



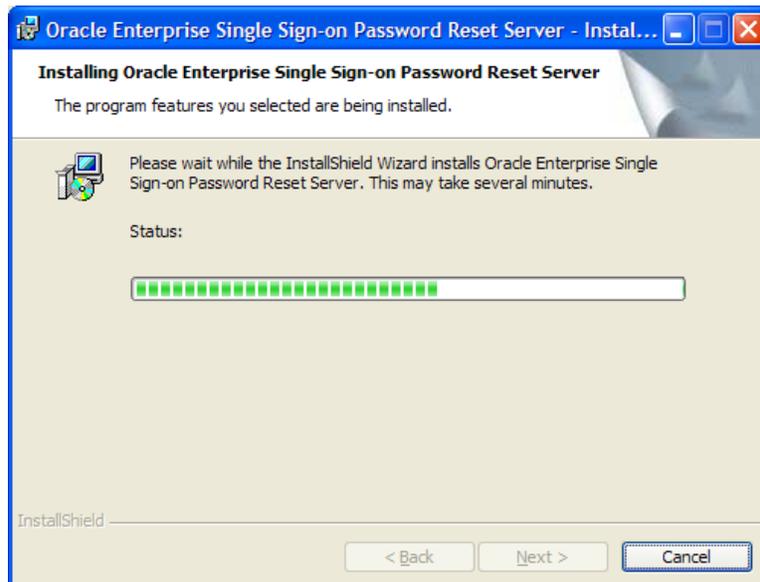
4. Select **Complete** or **Custom** setup type and click **Next >**. (Custom setup allows you to specify an alternate installation directory.) Then click **Next >**.



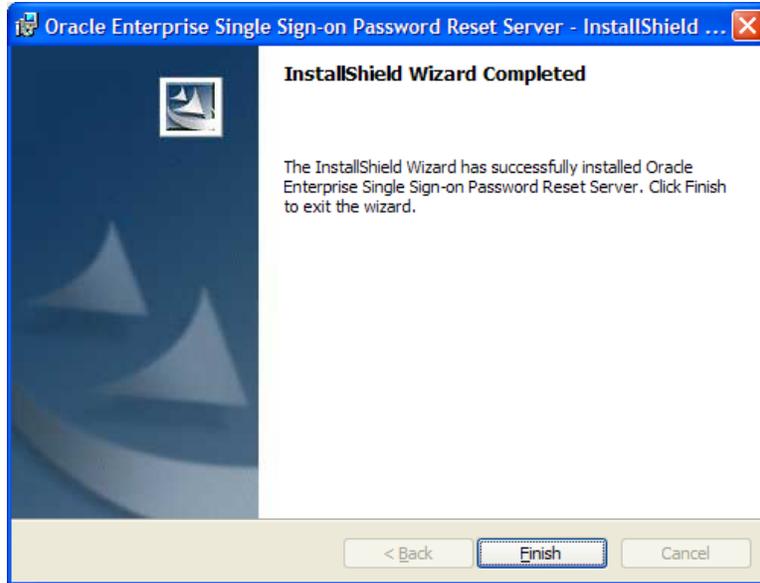
5. Click **Install**.



The bar indicates the progress of the installation.



6. When the installation is complete, click **Finish**.



Configuring IIS 7.0 on Windows Server 2008 for Password Reset

Prior to installing the Password Reset Web server on Windows Server 2008, you must install Microsoft Internet Information Services 7.0. Following is the procedure to configure IIS 7.0 on Windows Server 2008.

1. In the Windows Server 2008 Manager, select **Roles>Add Roles**.
2. In the Add Roles Wizard, select the **Web Server (IIS)** role.
3. In the resulting popup window, confirm that you want to add the required features.
4. Click **Next**.
5. In the "Role Services" window, select the following roles, if they are not already selected:
 - Application Development:
 - ASP .NET and its required features
 - Common HTTP Features:
 - Static Content
 - Default Content
 - Directory Browsing
 - HTTP Errors
 - Health and Diagnostics:
 - HTTP Logging
 - Request Monitor
 - Security:
 - Windows Authentication
 - Digest Authentication
 - IP and Domain Restrictions
 - Request Filtering
 - Performance:
 - Static Content Compression
 - Under Management Tools:
 - IIS Management Console
 - IIS Management Scripts and Tools
 - Management Service
 - IIS 6 Management Compatibility and all sub-roles
6. Click **Next**.
7. In the confirmation window, verify your installation selections. Click **Back** if you want to change any of your selections. Click **Install** when you are ready to begin installation..

After installation completes, continue to the Password Reset [installation wizard](#).

Completing the Installation of the Password Reset Server-Side Component

Perform the steps in this section to configure your host environment for Password Reset Server and configure your Password Reset Server installation for operation. You must do the following in order to start using Password Reset Server:

- [Configuring the Password Reset Authentication and Password Reset Services](#)
- [Configuring Password Reset Server to Store Data in Active Directory](#)
- [Limiting the Inherited Permissions for the SSPRESET Account to the Required Minimum](#)
- [Configuring the Password Reset Web Service's IIS Site as a Trusted Site in Active Directory](#)
- [Restricting Access to the Password Reset Web Console](#)
- [Configuring Password Reset for SSL Connectivity with Windows Server 2003/2003 R2](#)
- [Configuring Password Reset for SSL Connectivity with Windows Server 2008/2008 R2](#)

Configuring the Password Reset Authentication and Password Reset Services

Creating the Required Service Accounts

Create the following two accounts on your domain controller. These accounts should be ordinary users in the "Domain Users" group (default):

- **SSPRWEB.** This account will be responsible for Password Reset IIS functions and will make changes, additions, and so forth, to the organizational unit (OU) that you will create later. If the IIS instance hosting the Password Reset Web service and the Active Directory or ADAM/AD-LDS repository are running on separate machines, this account must be in the same domain as (or in a trusted domain of) the Active Directory or ADAM/AD-LDS repository and must have read and write permissions to the Password Reset Web service's IIS site directories and sub-directories.
- **SSPRRESET.** This account will run the actual reset service on the Password Reset member server with IIS. It will be responsible for resetting user passwords on the domain level.



Make these accounts members of the local "Administrators" group on the IIS host to avoid problems.

These accounts will be the service accounts that Password Reset uses to manage the container where user questions and enrollment information will be housed and to handle the actual password reset process. Because these are service accounts, you should use highly complex passwords and prudent practices in terms of user lockout after a certain number of bad attempts. Although this might result in some help desk calls from users who cannot reset their passwords, it will also alert you that someone has been trying to attack these service accounts. For information as to best practices for service accounts and security log monitoring, visit Microsoft's [knowledge base](#).

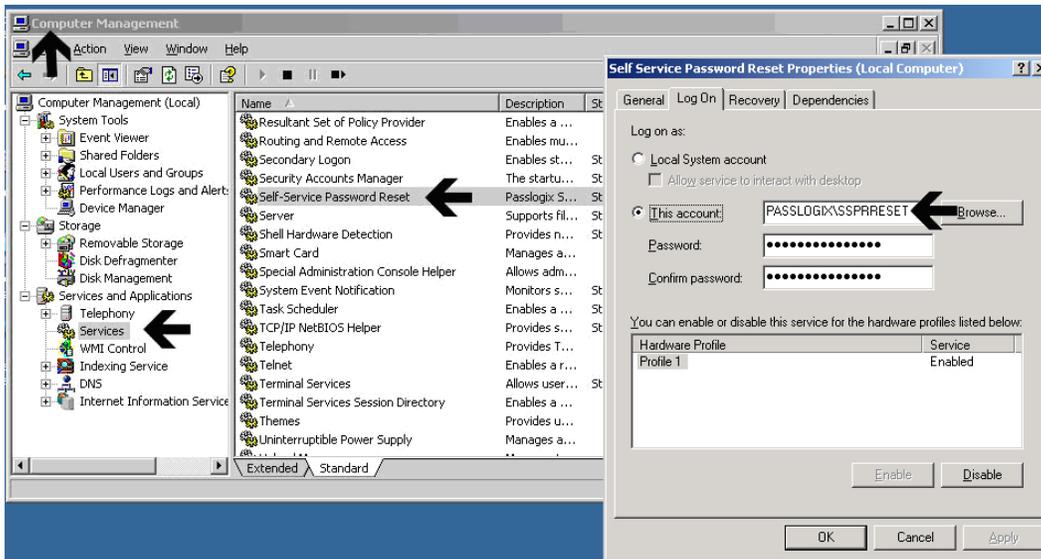
Assigning the Service Accounts to the Respective Password Reset Services

Assigning the Required Service Account to the Password Reset System Service

1. Run: **Control Panel > Administrative Tools > Services.**
2. From the list in the right-hand pane, right-click **Self Service Password Reset**, and select **Properties.**
3. In the Self Service Password Reset Properties dialog box, select the **Log On** tab.
4. Select **This account** and enter the account name: `Domain\SSPRRESET`. Then enter and confirm (re-enter) the password for the account.

A dialog box displays to advise you that changes will apply after the service is restarted.

5. Restart the service as indicated. The SSPRESET account setup is complete.



The SSPRESET account runs the password reset service on the IIS server where the server-side components reside.

The SSPRWEB account runs the virtual Web site on the IIS server where the server-side components reside.

Configuring Access for the Password Reset Web Service's IIS Web Site Contents

You must configure access to the Password Reset Web service's IIS Web site contents (under the vgoSelfServiceReset virtual directory) as follows:

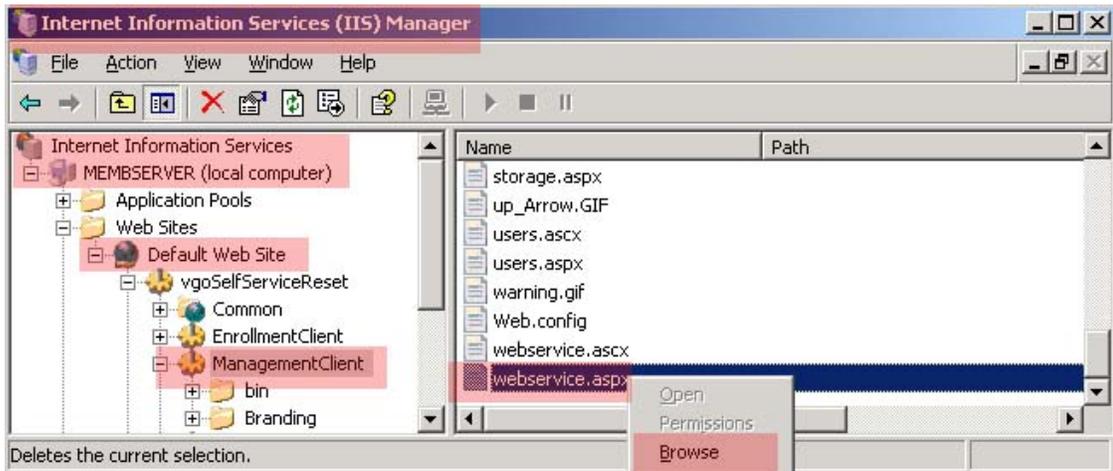
Configuration of Virtual Sub-Directories	
Virtual Directory	EnrollmentClient
Enable Anonymous Access	NO
Integrated Windows Authentication	NO
Digest Authentication	YES
Authentication and Access Control	SSPRWEB
Virtual Directory	ManagementClient
Enable Anonymous Access	NO
Integrated Windows Authentication	YES
Digest Authentication	NO
Authentication and Access Control	SSPRWEB
Virtual Directory	ResetClient
Enable Anonymous Access	YES
Integrated Windows Authentication	YES
Digest Authentication	NO
Authentication and Access Control	SSPRWEB
Virtual Directory	WebServices
Enable Anonymous Access	NO
Integrated Windows Authentication	YES
Digest Authentication	NO
Authentication and Access Control	SSPRWEB

 The only virtual directory that permits anonymous access is the ResetClient directory.

Verifying the Password Reset Services Permissions

1. For IIS 6.0:

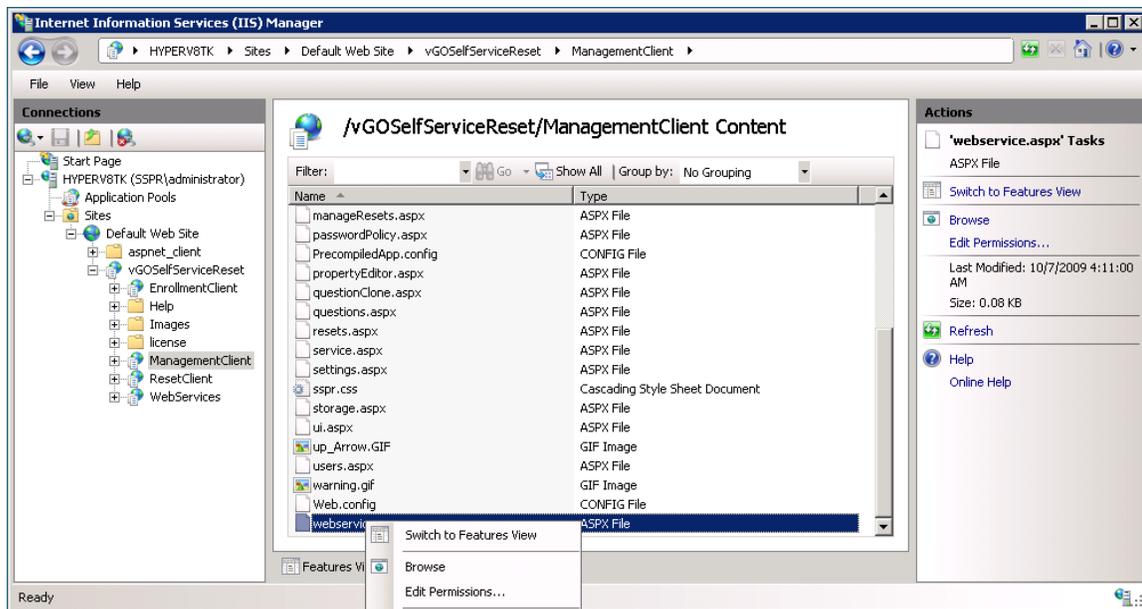
To access the Password Reset web-based console, open IIS Manager and navigate down to Default Website, then to vgoSelfServiceReset > ManagementClient. In the right-hand pane, scroll down to the webservice.aspx page, and browse it.



 By default, Windows Server 2003 installation has all Web service extensions disabled. Be sure to activate the required web service extension.

For IIS 7.0:

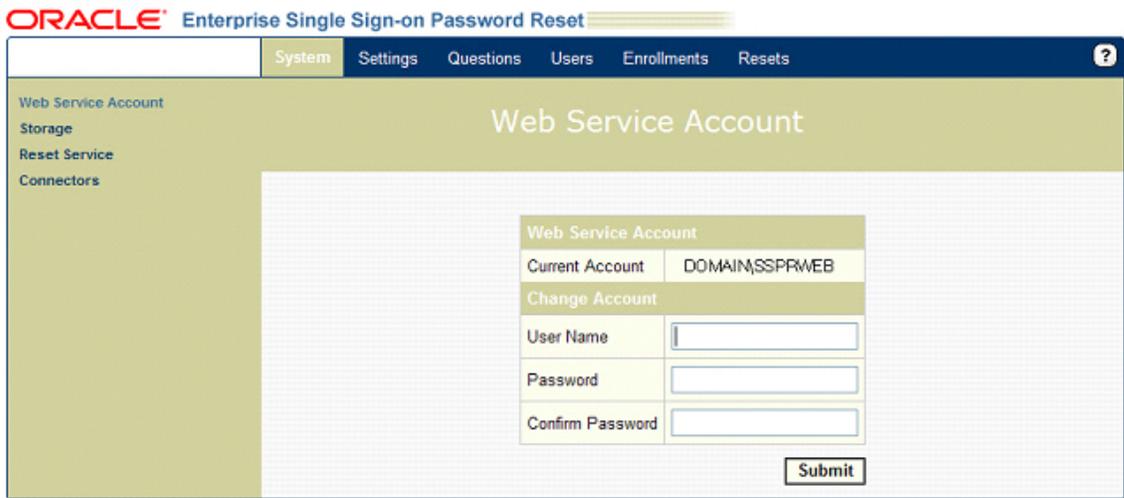
To access the Password Reset web-based console, open IIS Manager and navigate down to Default Web Site, then to vgoSelfServiceReset > ManagementClient. Select the **Content** view tab on the right pane, scroll down to the webservice.aspx page, and browse it.



 On IIS 7.0, SSPR Server will be installed into the custom "SSPR AppPool" application pool instead of DefaultAppPool (as is the case of IIS 6.0). The reason for this is that DefaultAppPool in IIS 7.0 uses the Integrated managed pipeline mode, which is not compatible with vGOselfServiceReset application.

When you open your browser, add this page to your Favorites list for easy access.

2. In the Password Reset Management Console web page, locate the System > Web Service Account section. Verify that the SSPRWEB account has been designated as the Current Account.

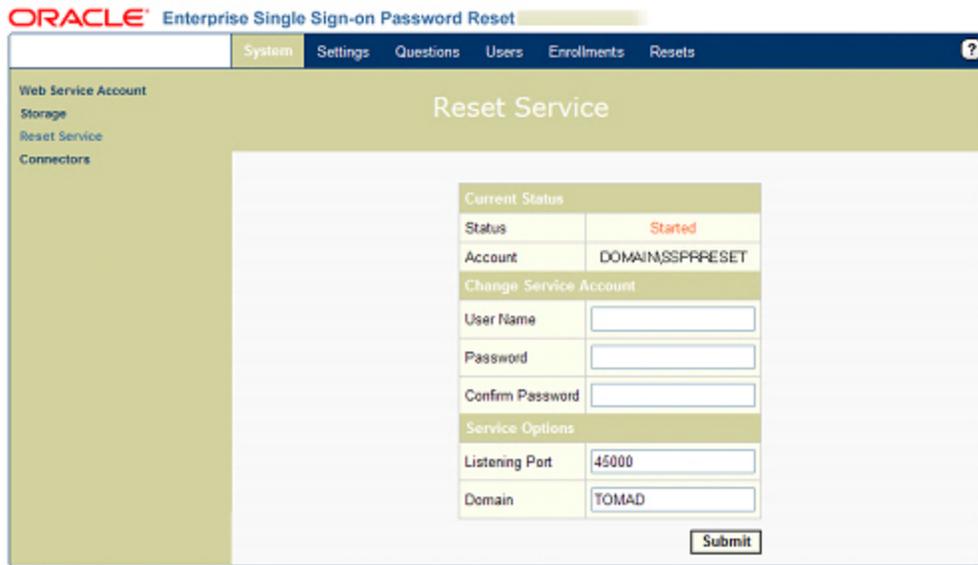


3. In the Password Reset Management Console Web page, locate the System > Reset Service section. Verify that the SSPRRESET account is listed as the service account for the Reset Service.

 If the SSPRRESET account is not listed as the Reset Service account under the Reset Service section of the Password Reset Management Console Web page, verify that you are logged in as a local administrator. If it still does not appear, you can manually assign it by specifying the account with the following naming convention: Domainname\SSPRRESET.

If you receive an error message indicating that the account does not have logon rights to a service:

1. Navigate to the IIS member server where you installed the Password Reset server-side components.
2. Check the local administrator's group.
3. Verify that the SSPRRESET and the SSPRWEB accounts are both members of the local administrator's group.
4. Click on Reset Service in the left pane and verify that the SSPRRESET account is listed as the Reset Service account.



Notice that the SSPRESET account has been designated as the service account for the Reset Service.

Configuring the Password Reset Web Service's Access to the Password Reset Registry Settings

In order for Password Reset to function properly, the SSPRWEB service account needs full permissions to the following registry key on the member server containing the Password Reset server side components:

- On 32-bit systems: HKLM\SOFTWARE\Passlogix\SSPR
- On 64-bit systems: HKLM\SOFTWARE\Wow6432Node\Passlogix\SSPR

 After applying permissions to this key, drill down several levels to verify that permissions have been propagated throughout.

To avoid possible permissions problems during the configuration of the Password Reset server-side components, Oracle recommends that you make both the SSPRWEB and SSPRESET accounts members of the local administrator's group on the IIS Member Server where you are installing the Password Reset server-side components.

After you have finished the installation and configuration of the Password Reset server-side components, you can remove these accounts from the local administrator's group on the member server.

Adding SSPRWEB Account Credentials to the Password Reset Server Configuration

In order for Password Reset Server to function properly, it must be provided with the SSPRWEB account credentials. Complete the following steps to do so:

1. Add the credentials to the Web.config file:

- a. Locate the following file on the Password Reset machine and open it in a text editor:

```
<PR_Install_Directory>\WebServices\Web.config
```

- b. Locate the following line:

```
<identity impersonate="true">
```

- c. Modify the line to look as follows and replace the example values of the `userName` and `password` parameters with the SSPRWEB account credentials. (Retain the quotation marks enclosing the values. The parameter names are case-sensitive.)

```
<identity impersonate="true" userName="domain\ssprweb"  
password="ssprweb_password" />
```

- d. Save and close the file.

2. Encrypt the credentials:

- a. On the Password Reset server machine, launch the command prompt with administrator privileges.

- b. Change into the following directory:

```
%windir%\Microsoft.NET\Framework\v4.0.30319
```

- c. Run the following command:

```
aspnet_regiis.exe -pe "system.web/identity" -app  
"/vgoselfservicereset/webservices"
```

- d. Do one of the following:

- If you are running Windows Server 2003, run the following command:

```
aspnet_regiis.exe -pa "NetFrameworkConfigurationKey" "NT  
Authority\Network Service"
```

- If you are running Windows Server 2008 or later, run the following command:

```
aspnet_regiis.exe -pa "NetFrameworkConfigurationKey" "IIS  
APPPool\SSPR AppPool"
```

The SSPRWEB account credentials will be encrypted and the Password Reset Web service will be able to decrypt and use them to run under the SSPRWEB account.

To manually decrypt the credentials, run the following command:

```
aspnet_regiis.exe -pd "system.web/identity" -app  
"/vgoselfservicereset/webservices"
```

Configuring Password Reset Server to Store Data in Active Directory

Password Reset stores user questions, answers, configuration, and enrollment information within an organizational unit in Active Directory. Select any name for the OU that will identify the unit easily.



Before you proceed, create this organizational unit at the root of your domain. If the OU does not exist when you try to enable storage, you might receive an error message indicating that no such object exists on the server.

The Connect As account performs the schema extension. As such, this account must be a member of the Schema Administrator's group and have permissions to create objects within the Password Reset OU.

ORACLE Enterprise Single Sign-On Password Reset

System Settings Questions Users Enrollments Resets

Web Service Account
Storage
Reset Service
Connectors

Storage

Storage Configuration

Storage Type: AD

Server Name/IP Address, Port Number: [] [Add]

Servers: SSPDC.DOMAIN.COM [Up] [Down] [Delete]

Server Timeout: 0 Seconds

Storage Location (DN): OU=SSPR,DC=DOMAIN,DC=COM

Use SSL:

Storage Initialization

Initializing prepares the storage location for use by ESSO-PR and involves:

- Extending the schema (directory types only)
- Creating the main container/database
- Granting read/write access to web service account
- Creating required child objects/tables

Initialize storage for ESSO-PR:

Connect As (User Name): DOMAIN\SCHEMASUPER

Password: [Masked]

Submit

To enable storage in Active Directory:

1. In the System > Storage screen, select the storage type as AD in the Storage Type drop-down menu.
2. Enter the fully qualified domain name or the IP address of the domain controller that you want to use.
3. Enter 389 for the port number. This is the LDAP port used by Active Directory.
4. Click the **Add** button.

5. Populate the fields according to the information in the table below.
6. Click **Submit**.

After a slight delay, the confirmation message, Successfully Saved Changes, is displayed.

Storage Configuration Screen Label	Explanation
Storage Type	The type of directory in which Password Reset is installed. This example uses Microsoft Active Directory (AD).
Server Name/IP Address, Port Number	The fully-qualified domain name or the IP address of the domain controller. The port number for AD is 389. The port number for SSL is 636.
Servers	The list of domain controllers to use. This example uses one server: SSPRDC.DOMAIN.COM. It is possible to have multiple servers.
Server Timeout	The number of seconds in an attempt to establish a connection to the repository before a timeout.
Storage Location (DN)	The distinguished name (DN) of the Password Reset OU that you create within Active Directory, for example: OU=ESSOPR,DC=DOMAINNAME,DC=COM Where: ESSOPR is the name of the OU that you create. DOMAINNAME is the NetBIOS or short name of the domain. COM is the extension of the domain.
Use SSL	Select to enable secure socket layer.
Initialize Storage for Password Reset	Make sure that this box is checked. If you do not select this option, you will not be able to enter information into either the Connect As or Password fields. This tells Password Reset whether or not it should extend the schema and create the initial objects. If this box is not checked, Password Reset will only update the storage settings.
Connect As	The name of the account that will actually extend the AD schema and add the necessary objects to the Password Reset OU. This account should be a member of the Schema Admins group and have permissions to create objects in the Password Reset OU.  Enter the username in this syntax: Domain\Username
Password	The password for the account specified above.

 To verify that the Password Reset OU is configured correctly, open a fresh instance of Active Directory Users and Computers on your targeted domain controller, using the Advanced view. You should see an OU named ESSOPR (or the name that you chose) and two subordinate OUs named SystemQuestions and Users. The existence of these two subordinate OUs indicates success.

You can now remove both the SSPRWEB and SSPRESET accounts from the local administrator's group on the IIS member server where you installed the Password Reset server-side components.

Limiting the Inherited Permissions for the SSPRESET Account to the Required Minimum

The goal of this procedure is to grant a limited set of rights to the password reset account (SSPRESET). You will be able to reset user passwords and unlock accounts with this account, but nothing more.

Note that the SSPRESET account is simply a member of your domain users group. As a fail-safe built into AD, this account cannot be used to change the password of a user that has greater rights (such as, an administrator account).

You can assign this right at the organizational unit level or group level. Assigning this right at the user level should not be a general practice and is not recommended.

Planning Your Privilege Hierarchy

The assignment of password reset permissions mandates careful consideration and planning to ensure that the desired accounts, and only the desired accounts, are granted this permission. Some practices and caveats that might help you fine-tune your strategy as you set up these accounts include:

- Consider granting the password reset account granular permissions based on organizational units or specific groups. After applying permissions to either, test to make sure that you have the desired results.
- Do not run the Delegation of Control Wizard at the root of your domain: if you do, you will give the password reset account rights that extend beyond users to objects such as computers and printers.
- Because the password reset account is a member of the domain users group, its password reset permissions are applied to all the members of the domain users group, who are at the same level.

So, if you store all of your users in the default users container in AD and run the Delegation of Control Wizard at that level, it will not permit a domain user account to reset administrator account passwords. Active Directory does not permit users to have admin rights over administrators.

In this scenario, the password reset service account will not be granted permission to reset the password of your administrators. Your administrators will be able to enroll in Password Reset and go through the entire password reset dialog. However, when they attempt to reset their passwords, they will receive an error message because the password reset service account is not designed to have permissions to reset the password for users in a higher security group.

Carefully consider whether you want members of your domain administrators group to be able to have their passwords reset by an ordinary user account. While you can grant this level of control to the password reset account, you might decide it is wiser not to do so.

Delegating Control at the OU Level

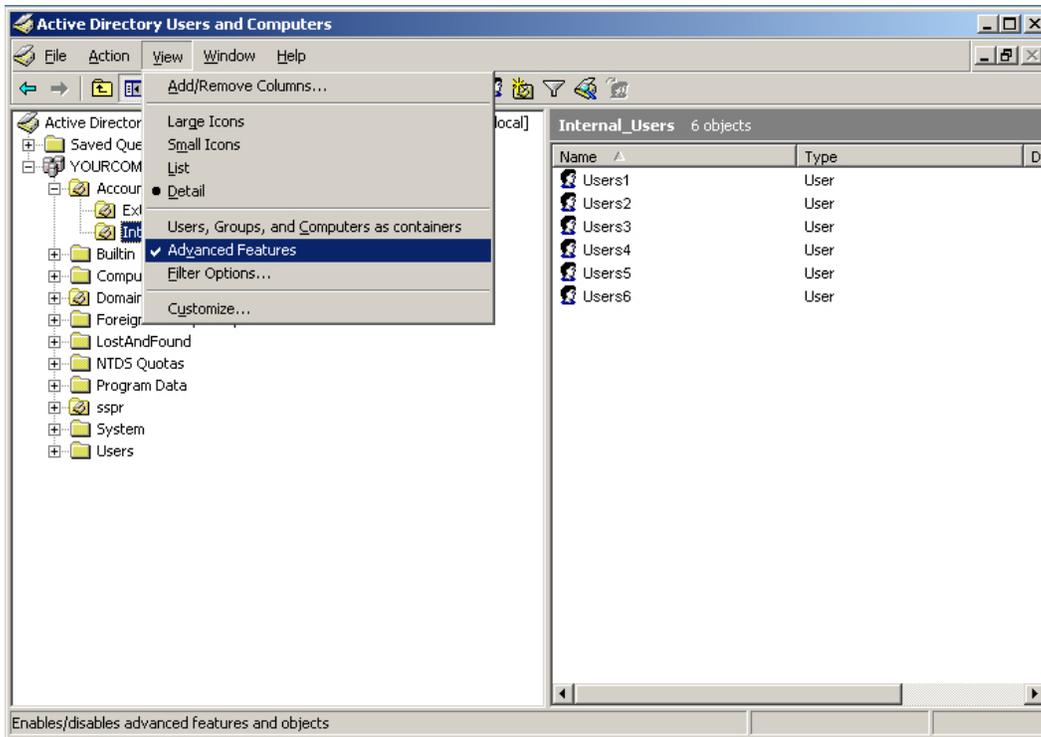
Consider an OU structure in Active Directory where users are divided in the following manner:

- OU = Users1
- OU = Users2
- OU = Users (the default user container created in AD)

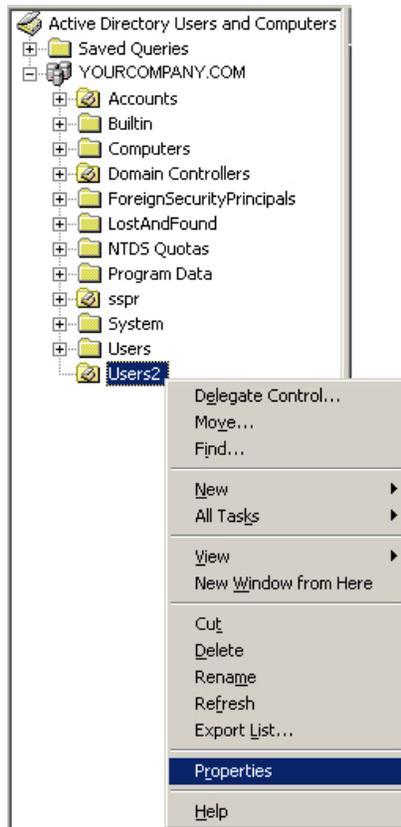
Assigning users to organizational units makes it possible to manage the SSPRESET service account permissions of many users in a simple and uniform manner.

In the following example, we will give the SSPRESET account the authority over the Users2 OU to reset its members' passwords.

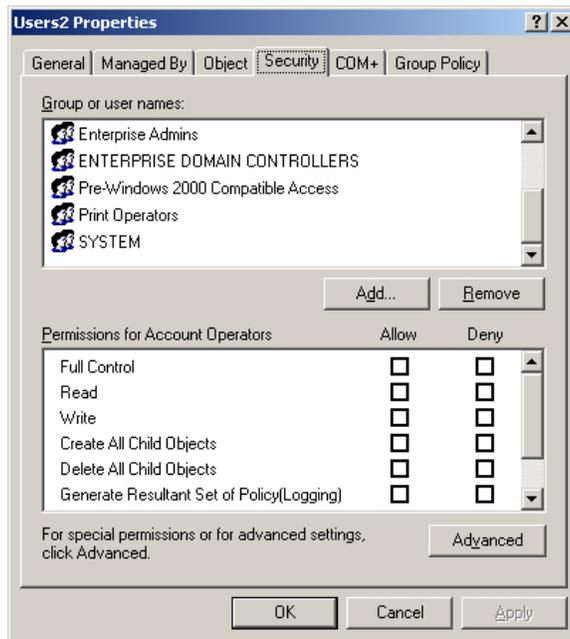
1. Go to **Start>Administrative Tools> Active Directory Users and Computers**.
2. Make sure Advanced Features is checked under the View menu.



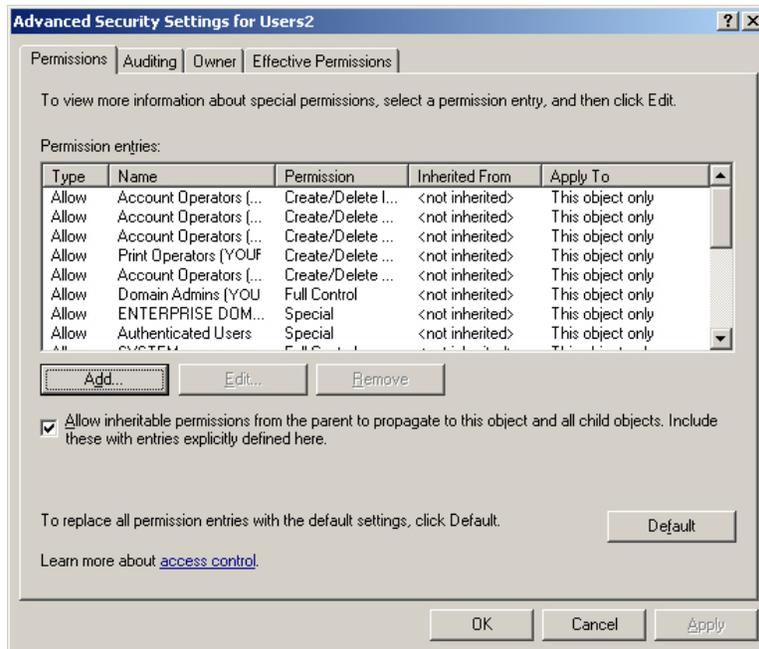
3. Navigate to **Active Directory Users and Computers > [YourDomain] > [YourOU]**. This example uses YOURCOMPANY.COM> Users2.
4. Right-click on the OU that you want to control (this example uses the Users2 OU) and select **Properties**.



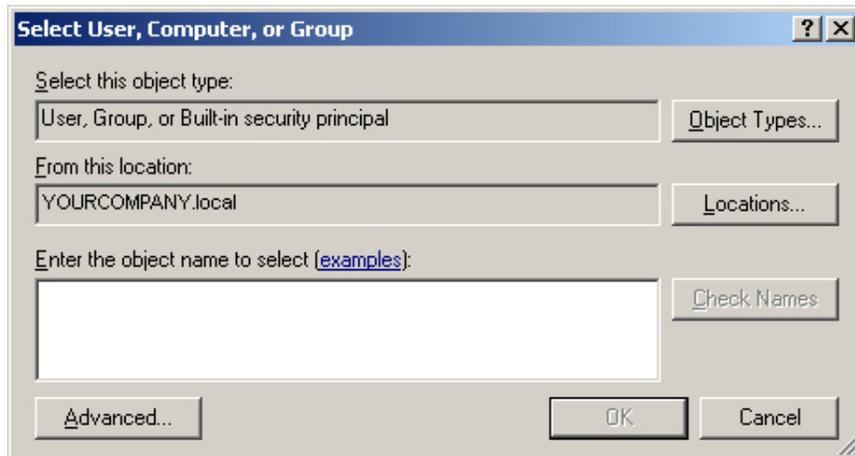
5. In the Users2 Properties window, select the **Security** tab.



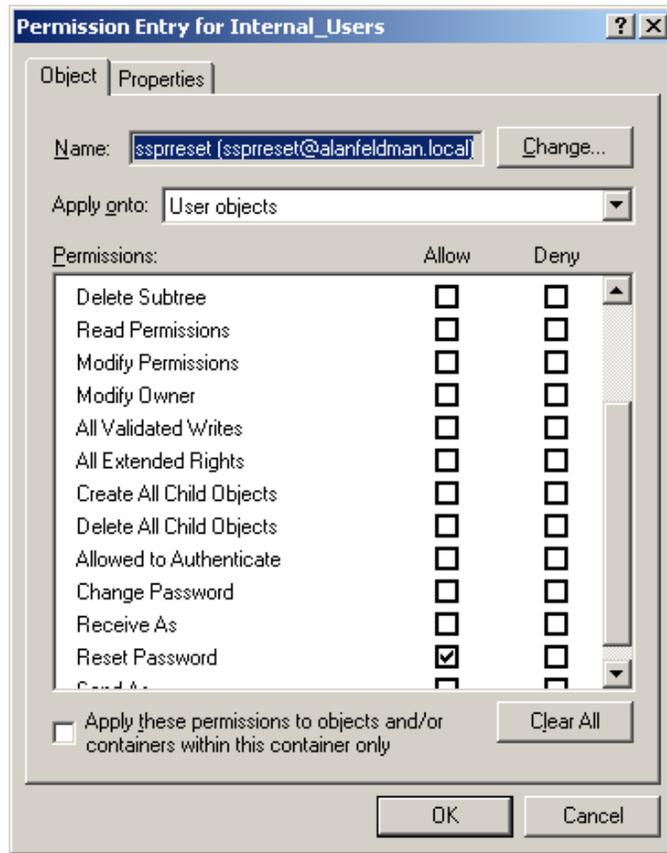
6. Click the **Advanced** button to access Advanced Security Settings.



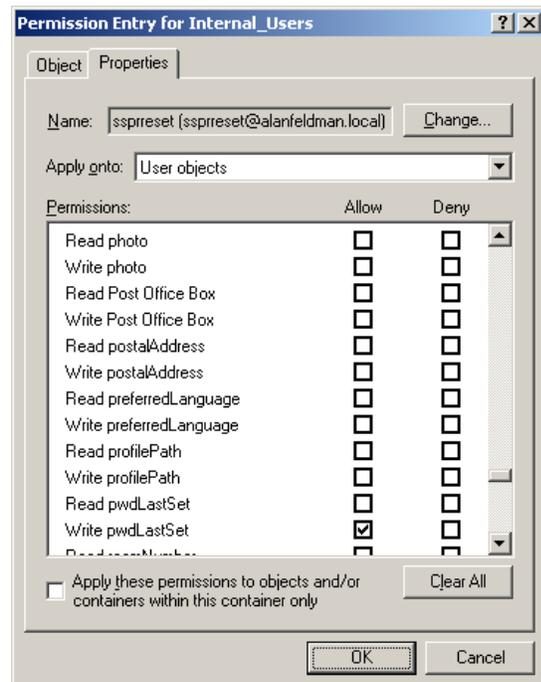
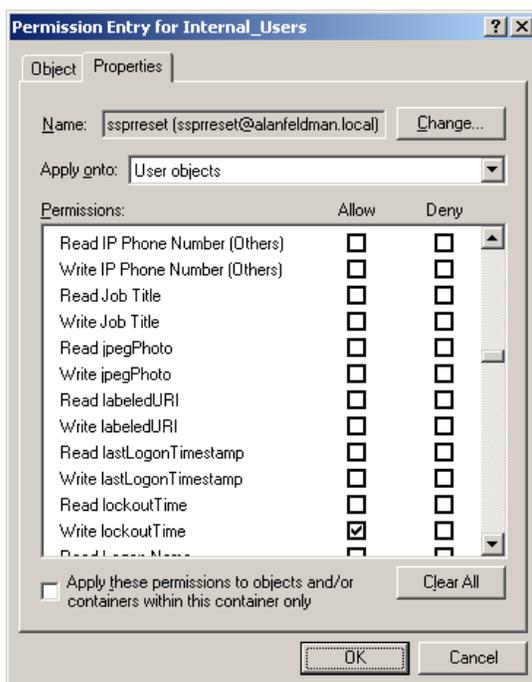
7. Click the **Add** button.
8. In the **Enter the object name to select** field, enter the name of your sspreset account (or browse to the account using the **Advanced** > **Find** buttons. (You can use the **Check names** button to verify that you have entered the account name correctly.



9. Click **OK**.
10. From the Object tab of the Permission Entry screen, select **User objects** from the "Apply onto:" dropdown menu.
11. In the Permissions window, check the **Reset Password** box in the Allow column.



12. In the Permission Entry screen, select the **Properties** tab.
13. From the "Apply onto:" dropdown menu, select **User objects**.
14. In the Permissions window, check the **Write lockoutTime** and **Write pwdLastSet** boxes in the Allow column.



15. Click **OK**.
16. Click **OK** two more times to close the windows. Your changes take effect immediately.

To verify that permissions were correctly assigned:

1. Right-click on the OU to which you just assigned the new permissions.
2. Select **Properties**.
3. Select the **Security** tab.

The SSPRESET account should be listed as having Special Permissions. The Advanced tab will indicate that this account has password reset permissions on the OU.

Configuring the Password Reset Web Service's IIS Site as a Trusted Site in Active Directory

There are two virtual directories within Password Reset that do not permit anonymous access, but that are configured to use integrated Windows authentication (that is, if you are logged onto the domain with your Windows password, you should be able to get to that page).

Due to security policies for IIS running on Windows Server 2003/2008, the first time a user attempts to enroll, he might encounter a popup screen requesting username and password, as is customary with any Web site with such settings. You can avoid this behavior (which can lead to undesired help desk calls) by putting the fully qualified domain name of your Password Reset IIS server in your list of trusted sites for any user in your domain.

To designate your Password Reset server as a trusted intranet site:

- For an individual computer, add the Password Reset IIS server's default Web site to your list of trusted intranet sites.
- Within AD, add this site to your list of trusted intranet sites through a group policy.

To accomplish this, you need:

- Domain administrator rights
- The ability to create or modify group policies at the OU or domain level.

In the following example, the Password Reset server site is designated as a trusted intranet site for the entire domain. As such, it is a trusted site to all domain users.



You might choose to create this policy for each OU that contains potential Password Reset users for more granular access control. Regardless of your approach, the end result is the inclusion of the Password Reset IIS server default Web site as a trusted site.

To add the Password Reset IIS server to the list of trusted sites in your organization, you must first create a policy for Windows clients that do not have the Internet Explorer Enhanced Security Configuration installed (by default, Windows XP does not have this feature installed):

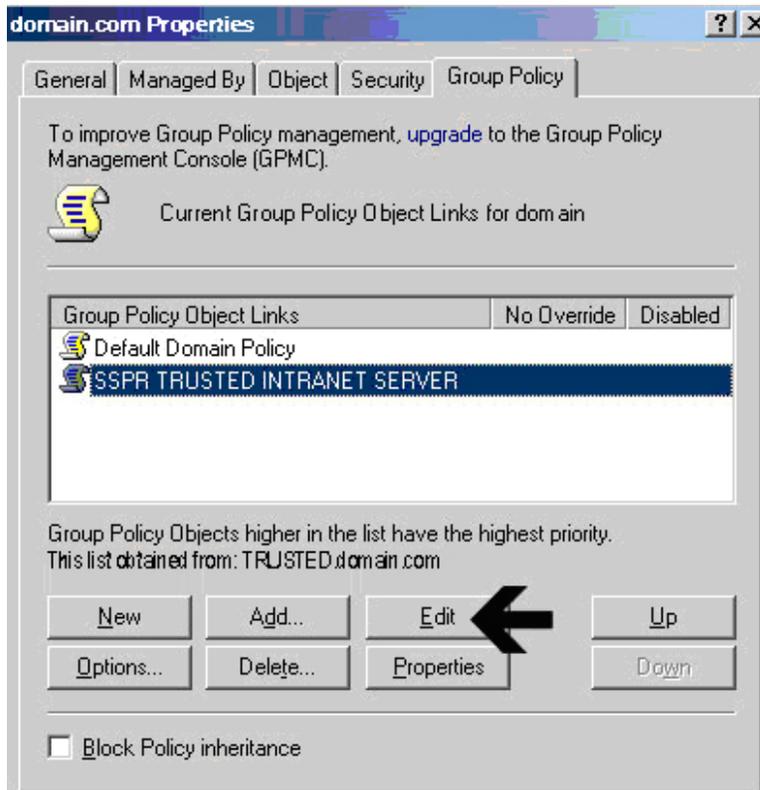
1. Remove the Internet Explorer Enhanced Security Configuration settings (Control Panel > Add/Remove Programs > Add/Remove Windows Components).
2. De-select (remove) the Internet Explorer Enhanced Security Configuration.



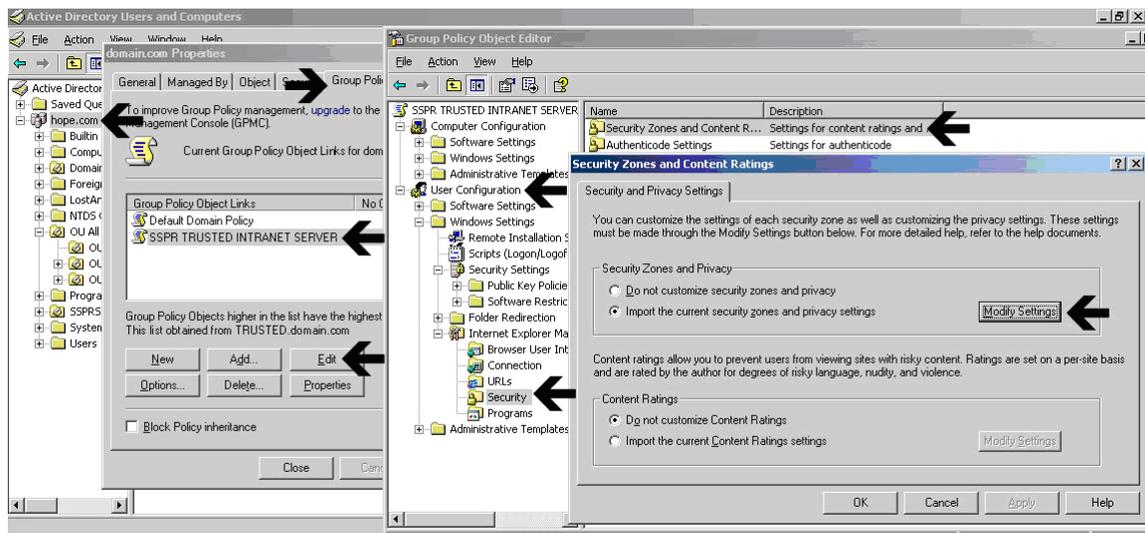
You can install this enhanced security feature on your domain controller after having created this policy. Read the dialog box that pops up when you attempt to import the current zone within Group Policy Object Editor.

To create this policy, open Active Directory Users and Computers, right-click on the organizational units that contain users who will be enrolling in Password Reset (in this example, at the root level of the domain) and click the **Group Policy** tab.

3. Create a policy named SSPR TRUSTED INTRANET SERVER.

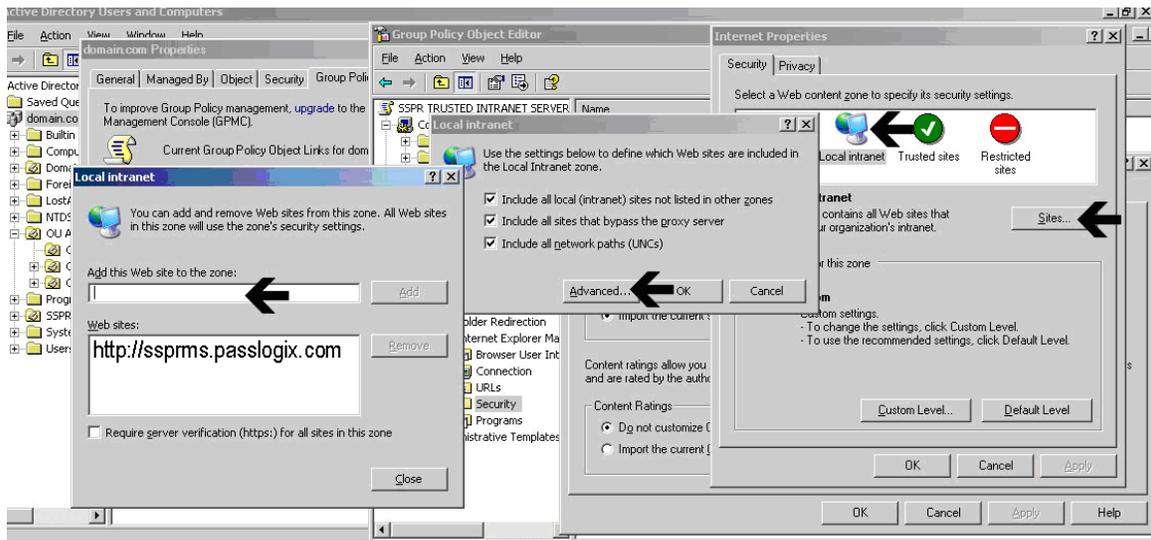


4. Click **Edit**.



5. Expand the user configuration portion of the policy in the Group Policy Object Editor.
6. Navigate to Windows Settings > Internet Explorer Maintenance > Security > Security Zones and Content Ratings.
7. Click **Modify Settings**.
8. Read the displayed message and proceed.

 This is the same Internet Properties dialog box that is found in Internet Explorer 6.0.



9. In the Internet Properties dialog box, click the **Local intranet zone** icon, then click the **Sites** button.
10. In the Local Intranet dialog box, click **Advanced**.
11. Enter the fully qualified domain name of your Password Reset IIS default website where indicated.
12. Click **Close**.
13. Click **OK** and **Apply** as needed to close out of the Group Policy Object Editor.

Depending on the replication speed within your network, it could take some time to replicate this policy throughout your Active Directory structure.

To confirm that this policy was applied at your desired level in AD:

1. Log on as a user who would be affected by this policy (having given AD group policy replication sufficient time).
2. In Internet Explorer, open **Tools > Internet Options > Security > Local Intranet > Sites > Advanced**.

Internet Explorer should list the site you added in its Trusted Sites window.

Restricting Access to the Password Reset Web Console

In order to avoid unauthorized users from accessing the Web-based Password Reset management console, perform the following steps:

1. Open Windows Explorer and navigate to:
 - On 32-bit systems: C:\Program Files\Passlogix\v-GO SSPR
 - On 64-bit systems: C:\Program Files (x86)\Passlogix\v-GO SSPR
2. Right-click the **Management Client** and select **Properties** from the shortcut menu.
3. In the Properties dialog box, click the **Security** tab.
4. Click **Advanced**.
5. Click **Inheritable rights for Users** to clear the selection.
6. In the dialog box that opens, click **Copy**.
7. Click **OK**.
8. In the Security tab, remove unauthorized users.
9. Click **Add**.
10. Choose an **Advanced** search and select IIS_WPG (for Windows 2003).
11. Click **OK**.



All permissions except Full should be checked under the Allow column.

Configuring Password Reset for SSL Connectivity with Windows Server 2003/2003 R2

Before configuring Password Reset for SSL connectivity on Windows Server 2003/2003 R2, you must obtain an X.509 Certificate from a trusted certificate authority (CA). This trusted CA must be installed in the list of trusted Root CAs. The certificate must be valid for the current date and its subject must exactly match the network name (either its host name or fully qualified URL containing a host name and domain suffix) that Password Reset client instances will use when connecting to the Password Reset server instance. The instructions in this section assume that a valid certificate has been obtained and is ready to be installed.



The following articles from the Microsoft Web site can be referred to for information on installing certificates and setting up SSL:

- "How to: Obtain an X.509 Certificate" <http://msdn2.microsoft.com/en-us/library/ms819929.aspx>
- "How to: Set Up SSL on a Web Server" <http://msdn2.microsoft.com/en-us/library/aa302411.aspx>

If you use Microsoft Certificate Services to obtain the X.509 certificate, choose a Server Authentication Certificate. Also, enable the **Mark keys as exportable** and **Use local machine store** options under the **Key Options** section.

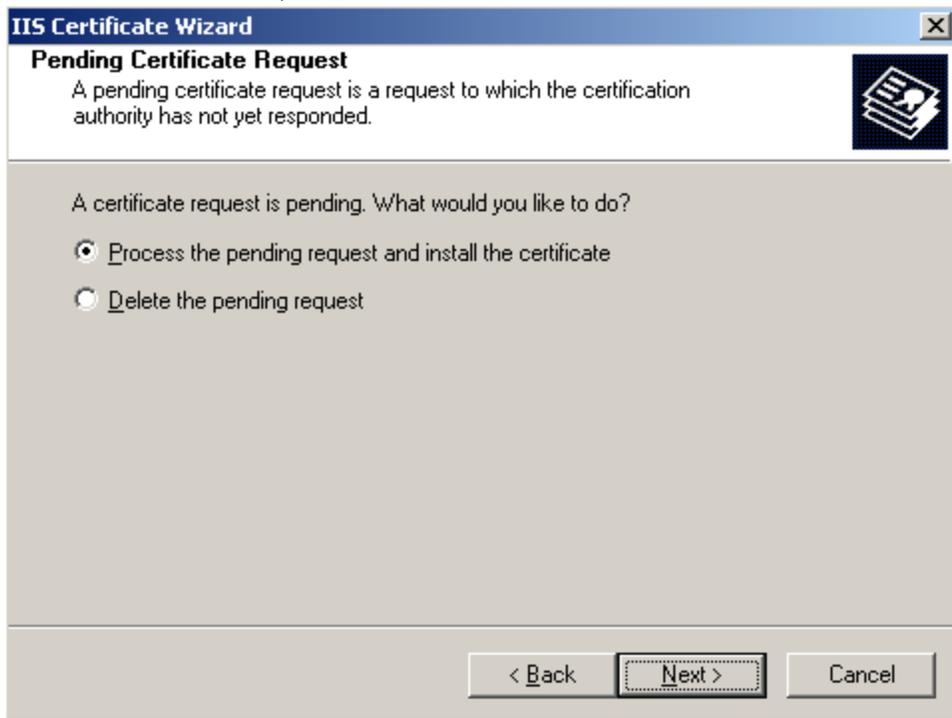
The steps required to enforce SSL-only connections to Password Reset server are as follows:

1. [Installing the X.509 Certificate in Microsoft IIS](#)
2. [Modifying the Password Reset Server Configuration Files](#)
3. [Granting Password Reset Server Access to the WebServices Directory](#)
4. [Restricting Password Reset Connectivity to SSL Only](#)
5. [Testing the New Connectivity Configuration](#)

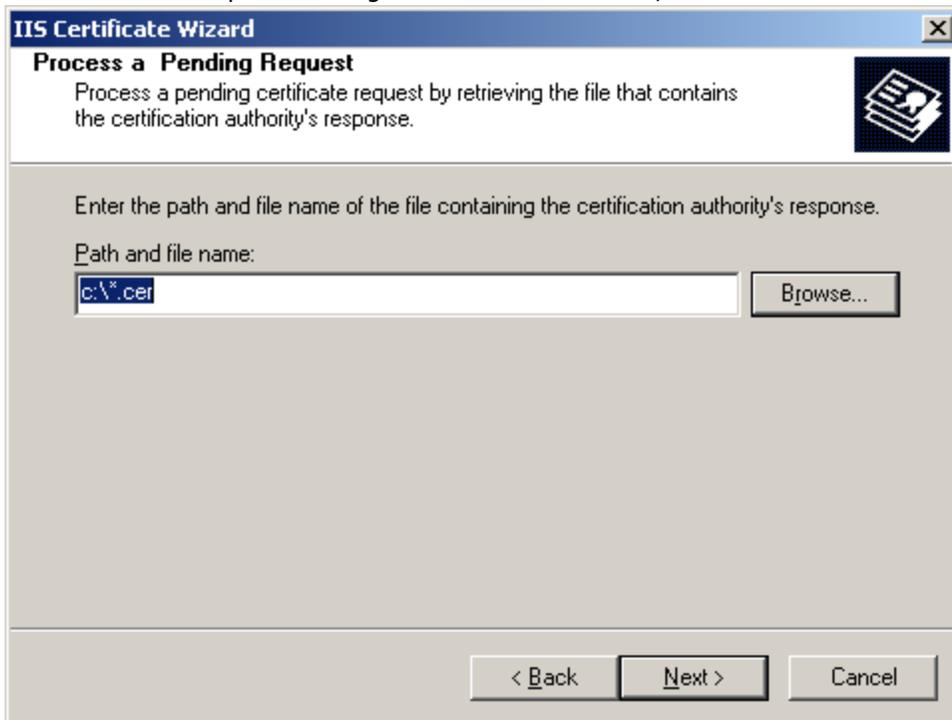
Step 1: Installing the X.509 Certificate in Microsoft IIS

1. Launch Microsoft IIS Manager.
2. In the left-hand pane, expand the root node, then expand **Web Sites**.
3. Right-click **Default Web Site** and select **Properties** from the context menu.
4. In the dialog that appears, select the **Directory Security** tab.
5. In the **Secure Communications** field, click **Server Certificate**.
6. In the wizard that appears, click **Next**.

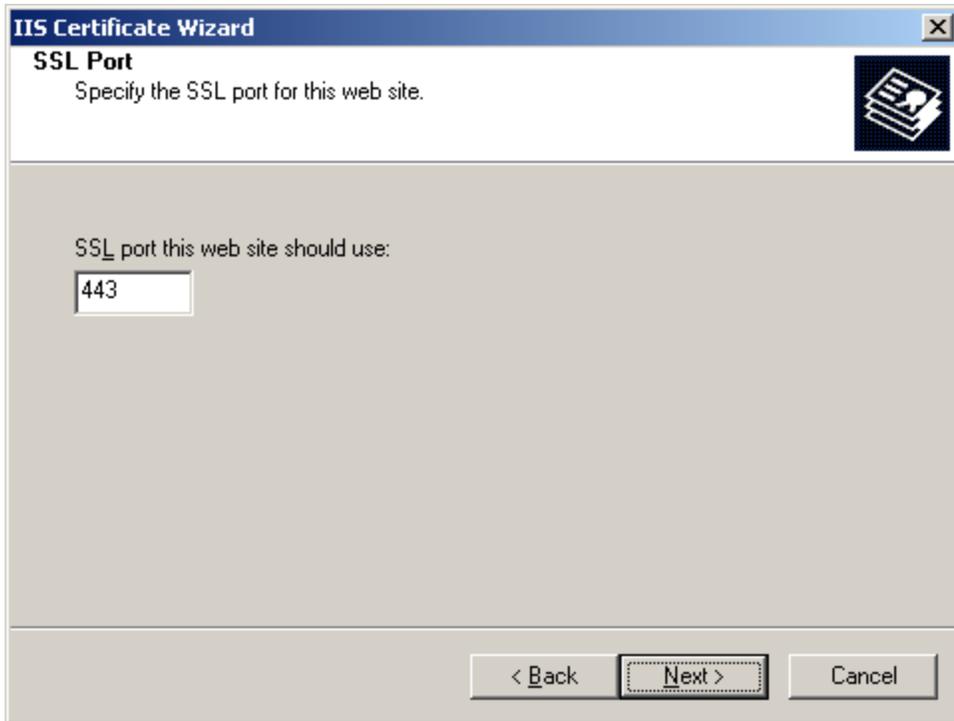
- In the "Pending Certificate Request" dialog, select **Process the pending request and install the certificate**, then click **Next**.



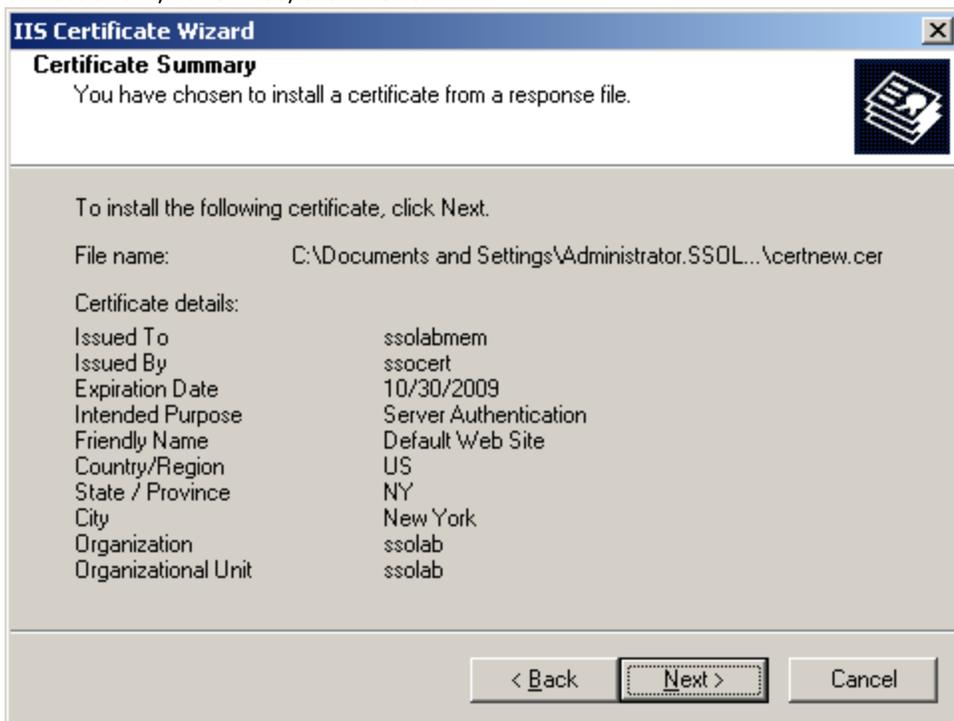
- Enter the absolute path or navigate to the certificate file, then click **Next**.



- Specify the desired SSL port and click **Next**. The default value is 443.



10. Review the information displayed in the summary dialog. If there are any errors, go back and correct them; otherwise, click **Next**.



11. In the dialog that appears, take note of the **Issued To** value ("ssolabmem" in our example). You will use this value to modify the Password Reset server configuration files in the next section.
12. Click **Finish** to exit the wizard. The certificate is now installed.

Step 2: Modifying the Password Reset Server Configuration Files

You must update the following configuration files to use the HTTP-over-SSL (HTTPS) protocol when calling the Password Reset Web pages:

- %PROGRAMFILES%\Passlogix\v-GO SSPR\EnrollmentClient\web.config
- %PROGRAMFILES%\Passlogix\v-GO SSPR\ManagementClient\web.config
- %PROGRAMFILES%\Passlogix\v-GO SSPR\ResetClient\web.config

Do the following:

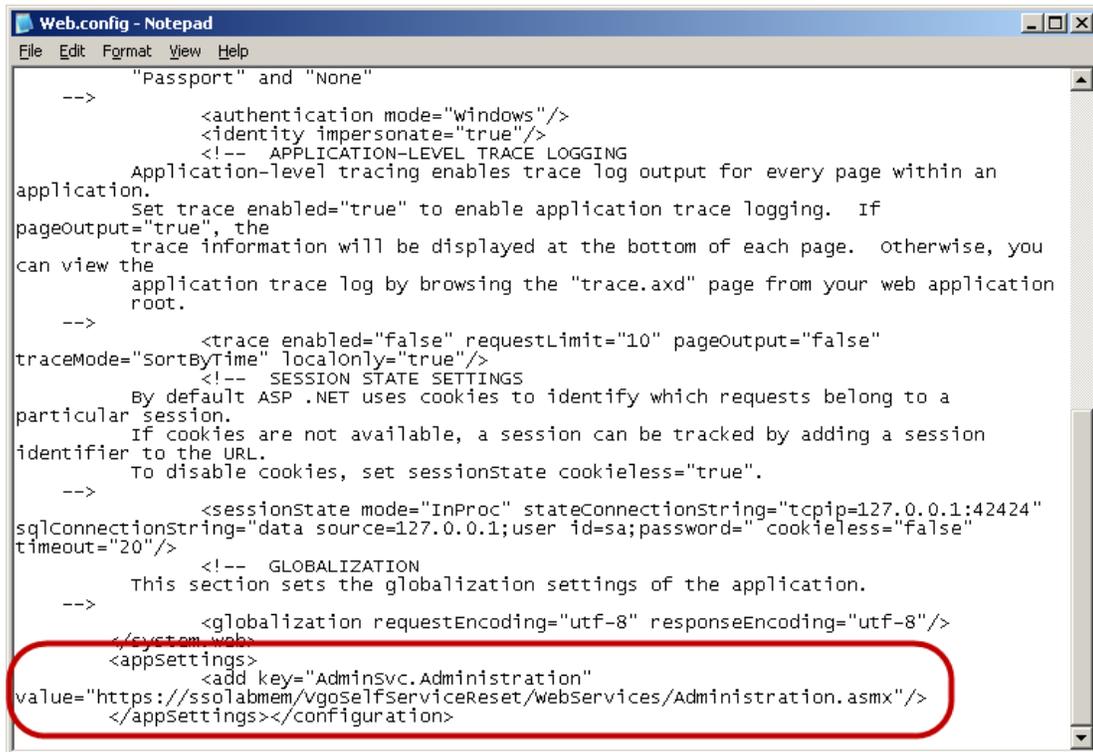
1. Modify the \EnrollmentClient\web.config file as follows:
 - a. Locate the <appSettings> section.
 - b. Modify the EnrollSvc.enrollment key value as follows:
 - i. Change http to https.
 - ii. Replace localhost with the **Issued To** value from your X.509 certificate. (You recorded this value in the previous part of this procedure.)
 - iii. (Optional) If you are using a custom port to connect to this service, append the port number at the end of the host name, separated by a semicolon. For example: https://sssolabmem.ssolab.com:1880.
 - c. Save and close the file.

```

Web.config - Notepad
File Edit Format View Help
"Passport" and "None"
-->
    <authentication mode="windows"/>
    <identity impersonate="true"/>
    <!-- APPLICATION-LEVEL TRACE LOGGING
Application-level tracing enables trace log output for every page within an
application.
Set trace enabled="true" to enable application trace logging. If
pageoutput="true", the
trace information will be displayed at the bottom of each page. otherwise, you
can view the
application trace log by browsing the "trace.axd" page from your web application
root.
-->
    <trace enabled="false" requestLimit="10" pageOutput="false"
traceMode="sortByTime" localOnly="true"/>
    <!-- SESSION STATE SETTINGS
By default ASP .NET uses cookies to identify which requests belong to a
particular
session.
If cookies are not available, a session can be tracked by adding a session
identifier to the URL.
To disable cookies, set sessionState cookieless="true".
-->
    <sessionState mode="InProc" stateConnectionString="tcpip=127.0.0.1:42424"
sqlConnectionString="data source=127.0.0.1;user id=sa;password=" cookieless="false"
timeout="20"/>
    <!-- GLOBALIZATION
This section sets the globalization settings of the application.
-->
    <globalization requestEncoding="utf-8" responseEncoding="utf-8"/>
</system.web>
<appSettings>
    <add key="EnrollSvc.enrollment"
value="https://sssolabmem/vgoselfservicesreset/webservices/enrollment.asmx"/>
</appSettings></configuration>
    
```

2. Modify the \ManagementClient\web.config file as follows:

- a. Locate the <appSettings> section.
- b. Modify the AdminSvc.administration key value as follows:
 - i. Change http to https.
 - ii. Replace localhost with the **Issued To** value from your X.509 certificate. (You recorded this value in the previous part of this procedure.)
 - iii. (Optional) If you are using a custom port to connect to this service, append the port number at the end of the host name, separated by a semicolon. For example:
https://ssolabmem.ssolab.com:1880.
- c. Save and close the file.



3. Modify the \ResetClient\web.config file as follows:
 - a. Locate the <appSettings> section.
 - b. Modify the ResetSvc.PasswordReset key value as follows:
 - i. Change http to https.
 - ii. Replace localhost with the **Issued To** value from your X.509 certificate. (You recorded this value in the previous part of this procedure.)
 - iii. (Optional) If you are using a custom port to connect to this service, append the port number at the end of the host name, separated by a semicolon. For example:
https://ssolabmem.ssolab.com:1880.
 - c. Save and close the file.

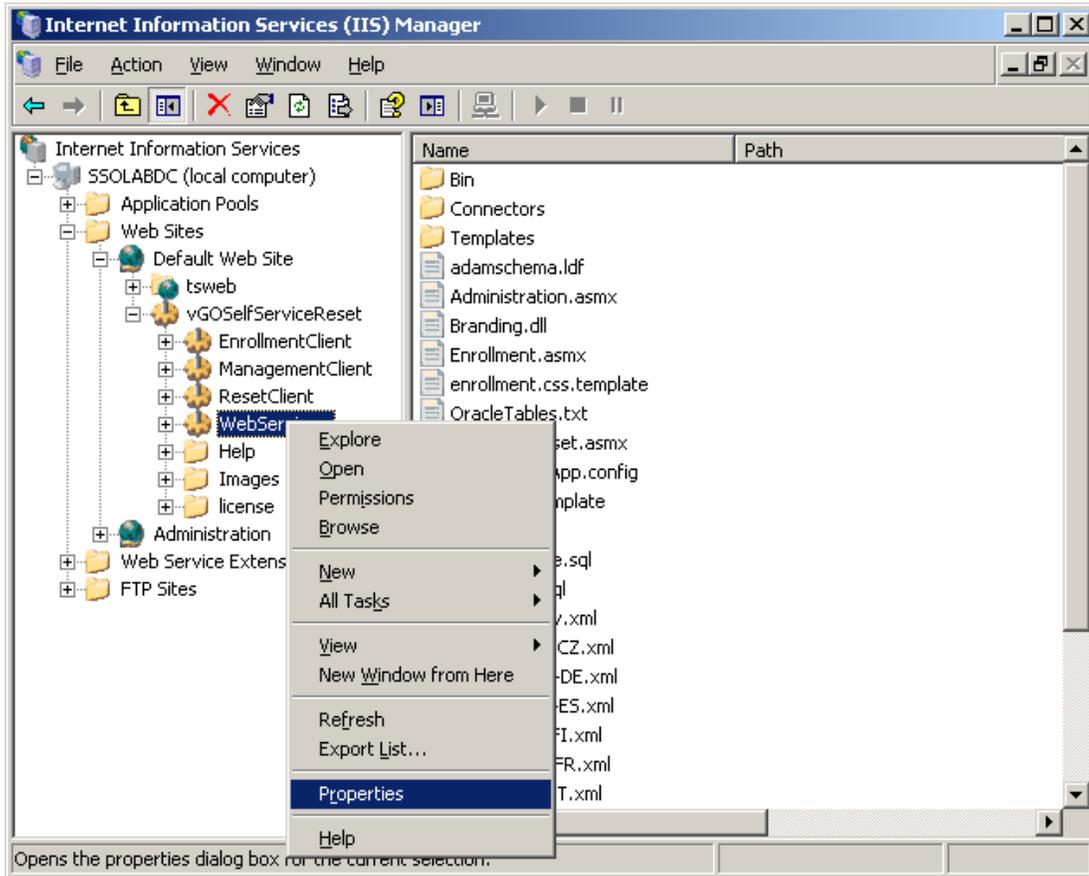
```

-->
        <authentication mode="windows"/>
        <!-- APPLICATION-LEVEL TRACE LOGGING
Application-level tracing enables trace log output for every page within an
application.
Set trace enabled="true" to enable application trace logging. If
pageOutput="true", the
trace information will be displayed at the bottom of each page. Otherwise, you
can view the
application trace log by browsing the "trace.axd" page from your web application
root.
-->
        <trace enabled="false" requestLimit="10" pageOutput="false"
traceMode="sortByTime" localOnly="true"/>
        <!-- SESSION STATE SETTINGS
By default ASP .NET uses cookies to identify which requests belong to a
particular
session.
If cookies are not available, a session can be tracked by adding a session
identifier
to the URL.
To disable cookies, set sessionState cookieless="true".
-->
        <sessionState mode="InProc" stateConnectionString="tcpip=127.0.0.1:42424"
sqlConnectionString="data source=127.0.0.1;user id=sa;password=" cookieless="false"
timeout="1"/>
        <!-- GLOBALIZATION
This section sets the globalization settings of the application.
-->
        <globalization requestEncoding="utf-8" responseEncoding="utf-8"/>
    </system.web>
    <appSettings>
        <add key="Adminsvc.administration"
value="https://ssolabmem/vgoSelfServiceReset/Webservices/administration.asmx"/>
        <add key="Resetsvc.PasswordReset"
value="https://ssolabmem/vgoSelfServiceReset/Webservices/PasswordReset.asmx"/>
    </appSettings></configuration>
    
```

Step 3: Granting Password Reset Server Access to the WebServices Directory

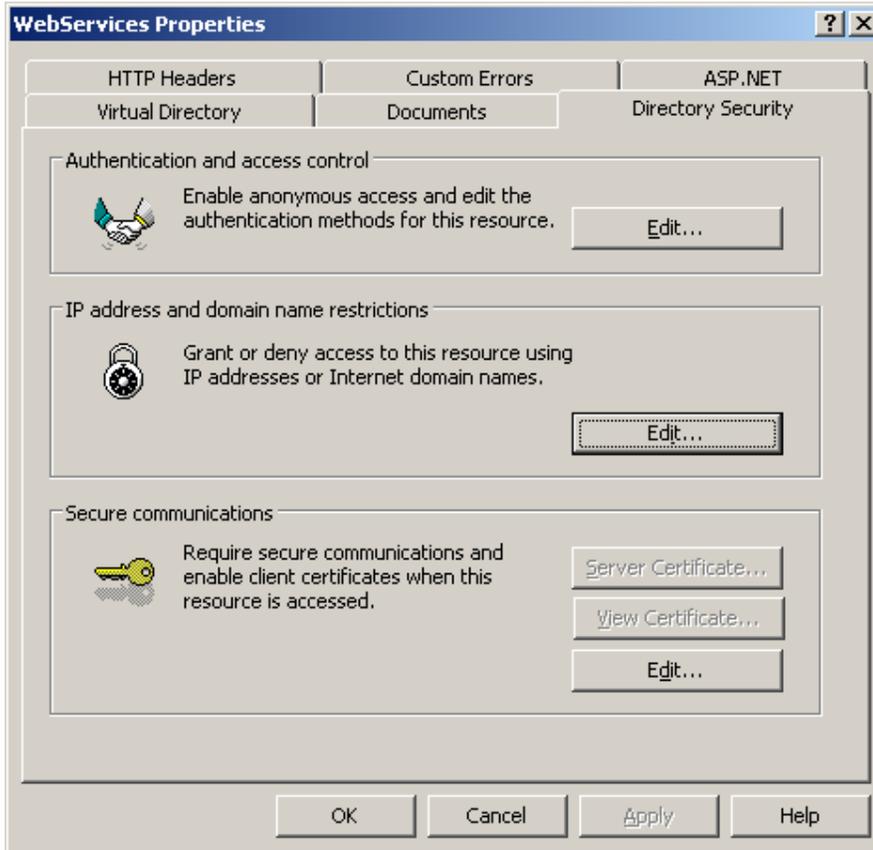
1. Launch Microsoft IIS Manager.
2. In the tree in the left-hand pane, navigate to and expand the **vGOselfServiceReset** node.

3. Right-click the **Web Services** node located under the **vGOselfServiceReset** node, and select **Properties** from the context menu.

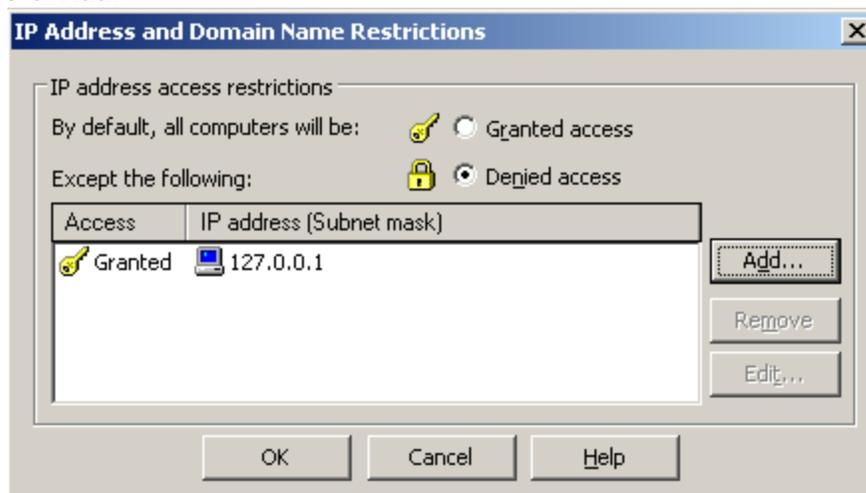


4. In the dialog that appears, select the **Directory Security** tab.

5. In the IP address and domain name restrictions section, click **Edit**.

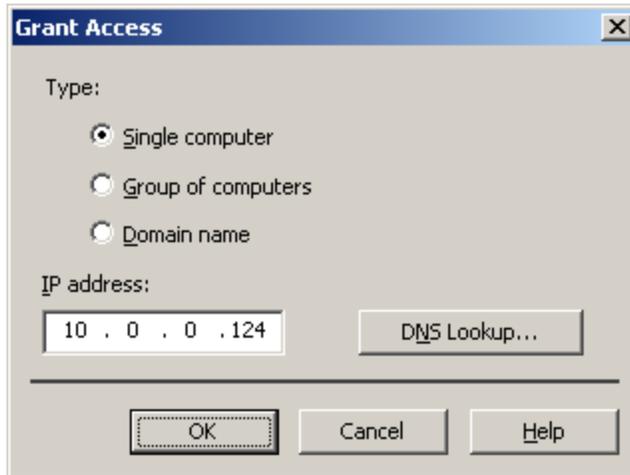


6. Grant the IP address of the Password Reset server machine access to the `WebServices` directory:
 - a. In the dialog that appears, select **Denied Access**. The dialog displays a list of IP addresses explicitly excluded from the global deny rule.
 - b. Click **Add**.



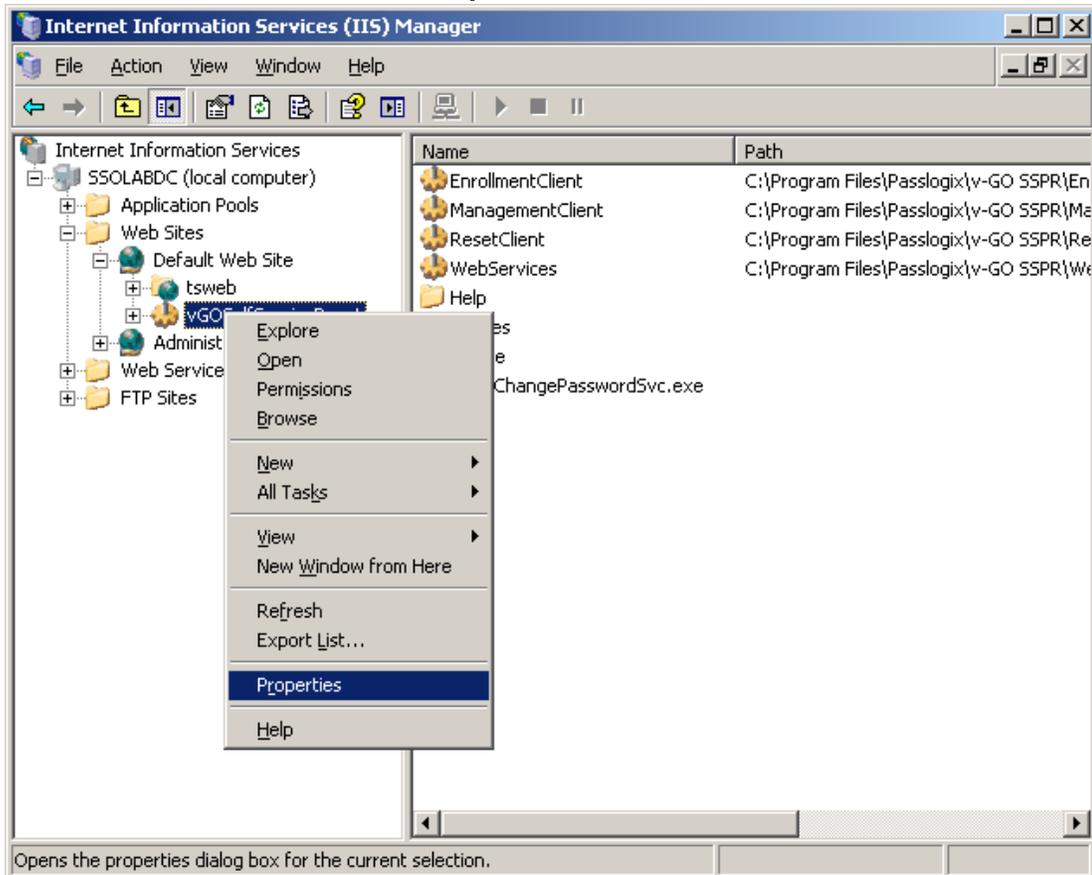
- c. In the dialog that appears, select **Single Computer**, enter the target IP address and click

OK.



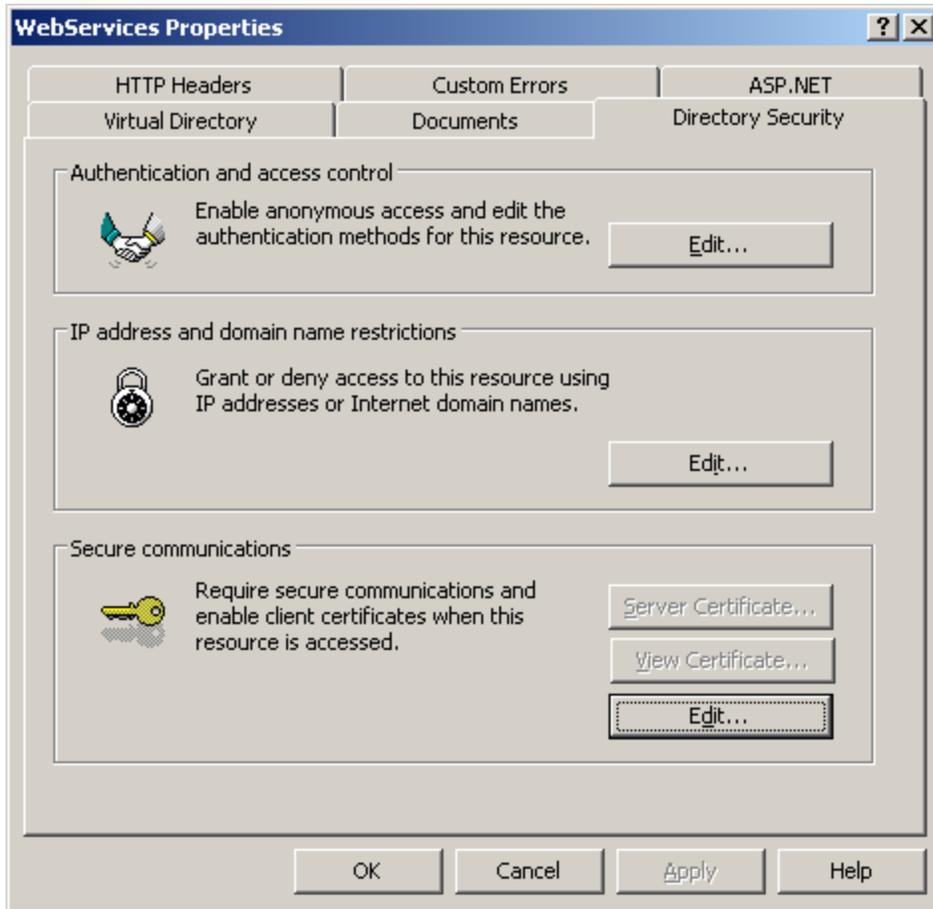
Step 4: Restricting Password Reset Connectivity to SSL Only

1. In the tree in the left-hand pane of Microsoft IIS Manager, right-click the **vGO-SelfServiceReset** node and select **Properties** from the context menu.



2. In the dialog that appears, select the **Directory Security** tab.

3. In the **Secure Communications** section, click **Edit**.



4. In the dialog that appears, do the following:
 - a. Select the **Require secure channel (SSL)** check box.
 - b. (Optional) If your environment requires 128-bit encryption, select the **Require 128-bit encryption** check box.

c. Click **OK**.



5. Click **OK** in the parent dialog to dismiss it.
6. Restart Microsoft IIS for the changes to take effect.

Step 5: Testing the New Connectivity Configuration

Using a Web browser, access each of the Password Reset interface services using the new SSL-enabled URLs (i.e., using the https protocol header in place of http).

The URLs are as follows:

- **EnrollmentClient:** `https://<new_host_name>:<new_port>/vGOselfServiceReset/Webservices/Enrollment.asmx`
- **ManagementClient:** `https://<new_host_name>:<new_port>/vGOselfServiceReset/Webservices/Administration.asmx`
- **ResetClient:** `https://<new_host_name>:<new_port>/vGOselfServiceReset/Webservices/PasswordReset.asmx`

If any of the URLs fails to load, or a certificate error is displayed, check your configuration, such as virtual directory permissions and certificate options, and correct it if necessary, then try again.

Configuring Password Reset for SSL Connectivity with Windows Server 2008/2008 R2

Before configuring Password Reset for SSL connectivity on Windows Server 2008/2008 R2, you must obtain an X.509 Certificate from a trusted certificate authority (CA). This trusted CA must be installed in the list of trusted Root CAs. The certificate must be valid for the current date and its subject must exactly match the network name (either its host name or fully qualified URL containing a host name and domain suffix) that Password Reset client instances will use when connecting to the Password Reset server instance. The instructions in this section assume that a valid certificate has been obtained and is ready to be installed.



The following articles from the Microsoft Web site can be referred to for information on installing certificates and setting up SSL:

- "How to: Obtain an X.509 Certificate" <http://msdn2.microsoft.com/en-us/library/ms819929.aspx>
- "How to: Set Up SSL on a Web Server" <http://msdn2.microsoft.com/en-us/library/aa302411.aspx>

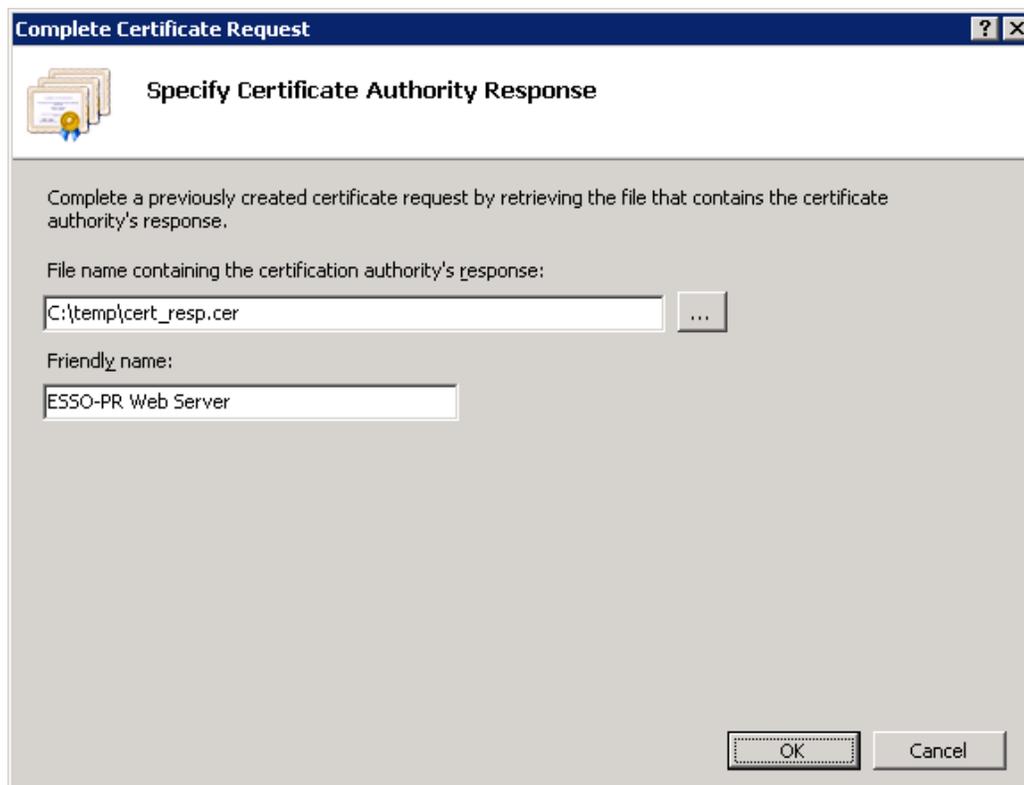
If you use Microsoft Certificate Services to obtain the X.509 certificate, choose a Server Authentication Certificate. Also, enable the **Mark keys as exportable** and **Use local machine store** options under the **Key Options** section.

The steps required to enforce SSL-only connections to Password Reset server are as follows:

1. [Installing the X.509 Certificate in Microsoft IIS](#)
2. [Modifying the Password Reset Server Configuration Files](#)
3. [Granting Password Reset Server Access to the WebServices Directory](#)
4. [Restricting Password Reset Connectivity to SSL Only](#)
5. [Testing the New Connectivity Configuration](#)

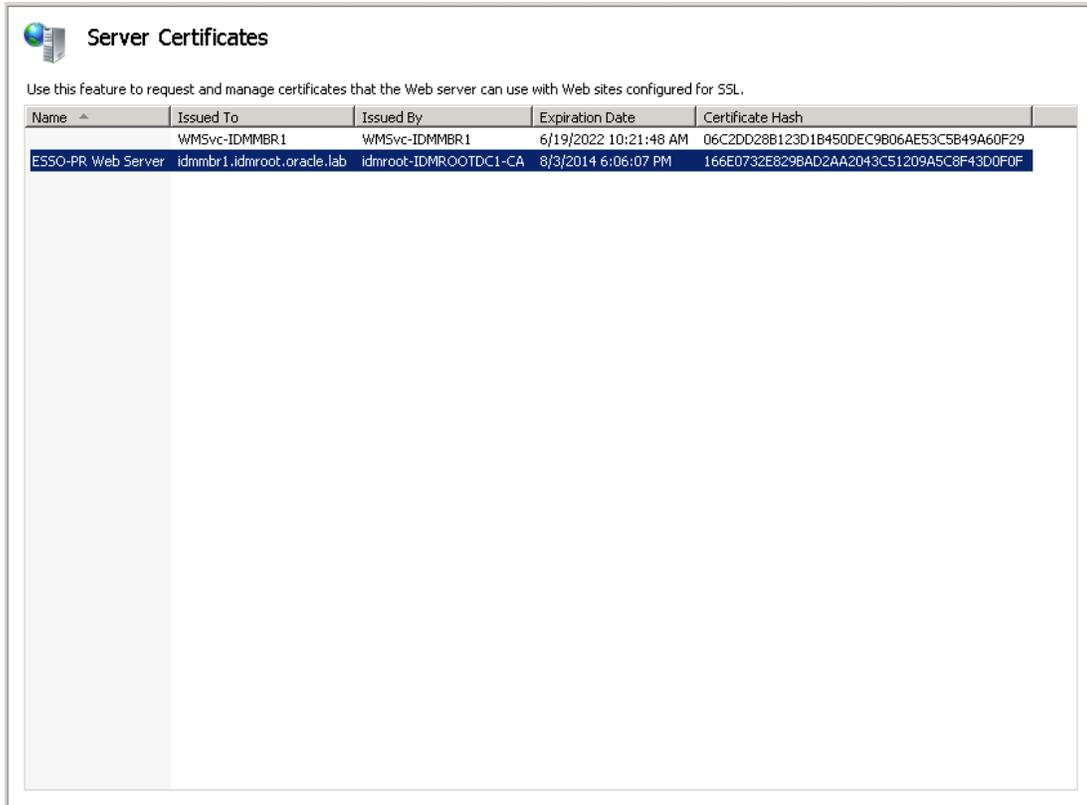
Step 1: Installing the X.509 Certificate in Microsoft IIS

1. Launch Microsoft IIS Manager.
2. In the **Connections** pane on the left, select the target server instance.
3. In the **Home** pane in the center, double-click the **Server Certificates** icon.
4. In the **Actions** pane on the right, click **Complete Certificate Request...**
5. In the **Complete Certificate Request** dialog that appears, do the following:
 - a. In the **File name containing the certificate authority's response** field, browse to or provide the full path and file name of the target X.509 certificate.
 - b. In the **Friendly name** field, enter a descriptive name for the certificate.

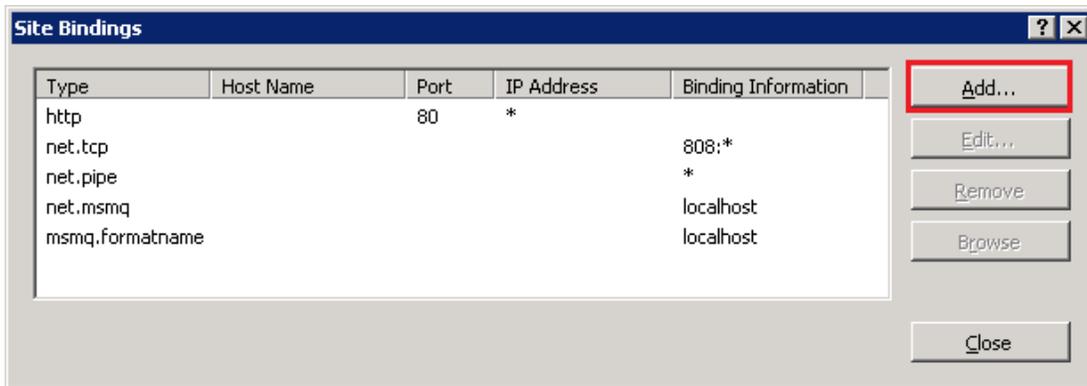


c. Click **OK**.

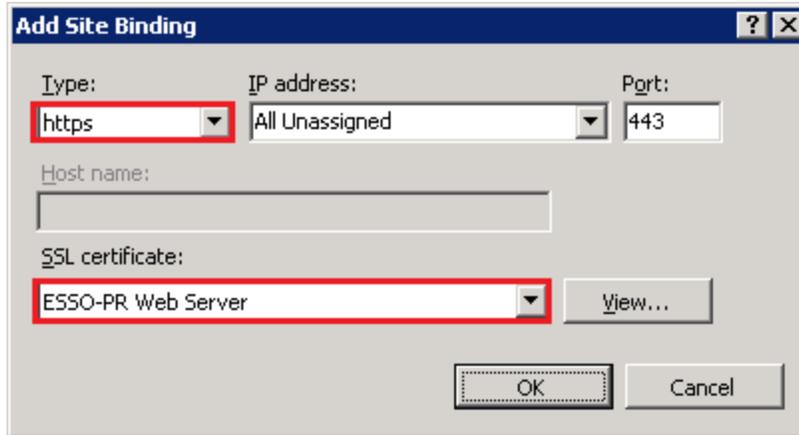
The certificate appears in the target machine's **Server Certificates** list.



6. Bind the installed certificate to the https protocol for the selected site. In the **Connections** pane on the left, expand the target machine node and drill down to and select the **Default Web Site** node.
7. In the **Edit Site** section in the **Actions** pane on the right, click **Bindings**.
8. In the **Site Bindings** dialog that appears, click **Add**.



9. In the **Add Site Binding** dialog that appears, do the following:
 - a. From the **Type** drop-down list, select **https**.
 - b. From the **Certificate** drop-down list, select the certificate you installed earlier in this procedure.
 - c. Leave the remaining settings at their defaults.



- d. Click **OK** to save your changes and dismiss the **Add Site Binding** dialog.
10. Click **Close** to dismiss the **Site Bindings** dialog.

Step 2: Modifying the Password Reset Server Configuration Files

You must update the following configuration files to use the HTTP-over-SSL (HTTPS) protocol when calling the Password Reset Web pages:

- %PROGRAMFILES%\Passlogix\v-GO SSPR\EnrollmentClient\web.config
- %PROGRAMFILES%\Passlogix\v-GO SSPR\ManagementClient\web.config
- %PROGRAMFILES%\Passlogix\v-GO SSPR\ResetClient\web.config

Do the following:

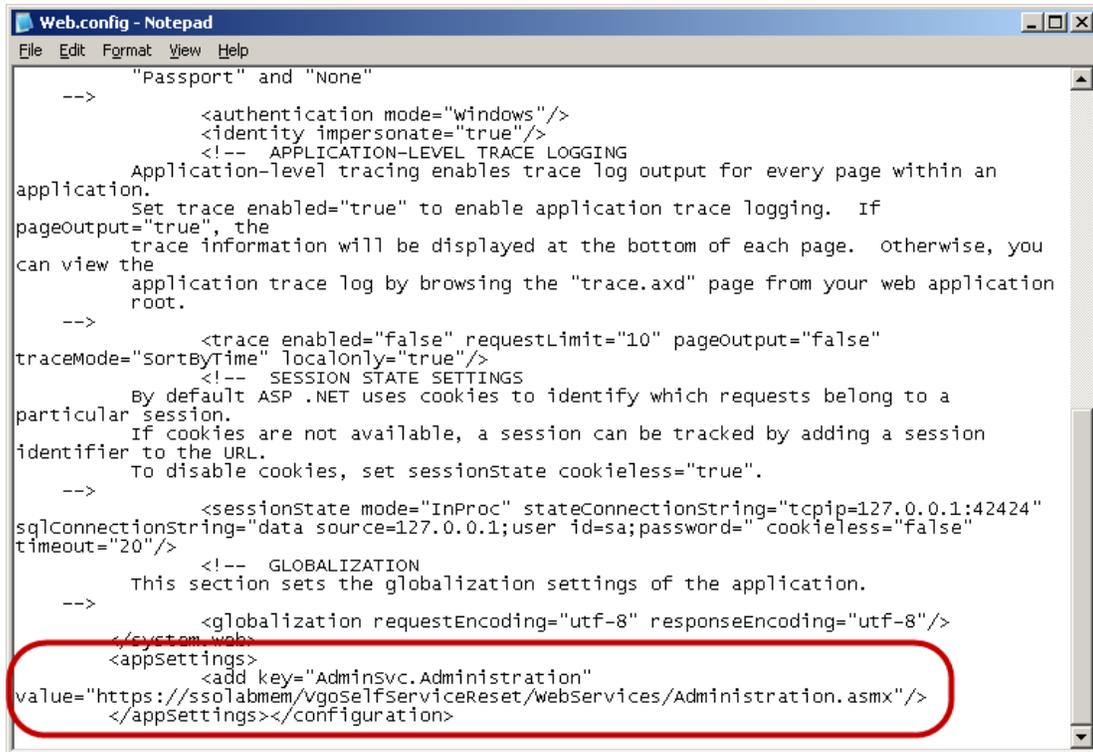
1. Modify the \EnrollmentClient\web.config file as follows:
 - a. Locate the <appSettings> section.
 - b. Modify the `EnrollSvc.enrollment` key value as follows:
 - i. Change `http` to `https`.
 - ii. Replace `localhost` with the **Issued To** value from your X.509 certificate. (You recorded this value in the previous part of this procedure.)
 - iii. (Optional) If you are using a custom port to connect to this service, append the port number at the end of the host name, separated by a semicolon. For example:
`https://ssolabmem.ssolab.com:1880`.
 - c. Save and close the file.

```

Web.config - Notepad
File Edit Format View Help
    "Passport" and "None"
-->
    <authentication mode="windows"/>
    <identity impersonate="true"/>
    <!-- APPLICATION-LEVEL TRACE LOGGING
Application-level tracing enables trace log output for every page within an
application.
Set trace enabled="true" to enable application trace logging. If
pageOutput="true", the
trace information will be displayed at the bottom of each page. otherwise, you
can view the
application trace log by browsing the "trace.axd" page from your web application
root.
-->
    <trace enabled="false" requestLimit="10" pageOutput="false"
traceMode="sortByTime" localOnly="true"/>
    <!-- SESSION STATE SETTINGS
By default ASP .NET uses cookies to identify which requests belong to a
particular
session.
If cookies are not available, a session can be tracked by adding a session
identifier to the URL.
To disable cookies, set sessionState cookieless="true".
-->
    <sessionState mode="InProc" stateConnectionString="tcpip=127.0.0.1:42424"
sqlConnectionString="data source=127.0.0.1;user id=sa;password=" cookieless="false"
timeout="20"/>
    <!-- GLOBALIZATION
This section sets the globalization settings of the application.
-->
    <globalization requestEncoding="utf-8" responseEncoding="utf-8"/>
</system.web>
<appSettings>
    <add key="EnrollSvc.enrollment"
value="https://ssolabmem/vgoselfservicesreset/webservices/enrollment.asmx"/>
</appSettings></configuration>
    
```

2. Modify the \ManagementClient\web.config file as follows:
 - a. Locate the <appSettings> section.
 - b. Modify the AdminSvc.administration key value as follows:
 - i. Change http to https.
 - ii. Replace localhost with the **Issued To** value from your X.509 certificate. (You recorded this value in the previous part of this procedure.)
 - iii. (Optional) If you are using a custom port to connect to this service, append the port number at the end of the host name, separated by a semicolon. For example:

```
https://ssolabmem.ssolab.com:1880.
```
 - c. Save and close the file.



```

Web.config - Notepad
File Edit Format View Help
"Passport" and "None"
-->
    <authentication mode="windows"/>
    <identity impersonate="true"/>
    <!-- APPLICATION-LEVEL TRACE LOGGING
Application-level tracing enables trace log output for every page within an
application.
Set trace enabled="true" to enable application trace logging. If
pageoutput="true", the
trace information will be displayed at the bottom of each page. otherwise, you
can view the
application trace log by browsing the "trace.axd" page from your web application
root.
-->
    <trace enabled="false" requestLimit="10" pageOutput="false"
traceMode="sortByTime" localOnly="true"/>
    <!-- SESSION STATE SETTINGS
By default ASP.NET uses cookies to identify which requests belong to a
particular session.
If cookies are not available, a session can be tracked by adding a session
identifier to the URL.
To disable cookies, set sessionState cookieless="true".
-->
    <sessionState mode="InProc" stateConnectionString="tcpip=127.0.0.1:42424"
sqlConnectionString="data source=127.0.0.1;user id=sa;password=" cookieless="false"
timeout="20"/>
    <!-- GLOBALIZATION
This section sets the globalization settings of the application.
-->
    <globalization requestEncoding="utf-8" responseEncoding="utf-8"/>
</system.web>
<appSettings>
    <add key="AdminSvc.Administration"
value="https://ssolabmem/vgoSelfServiceReset/webServices/Administration.asmx"/>
</appSettings></configuration>

```

3. Modify the `\ResetClient\web.config` file as follows:

- a. Locate the `<appSettings>` section.
- b. Modify the `ResetSvc.PasswordReset` key value as follows:
 - i. Change `http` to `https`.
 - ii. Replace `localhost` with the **Issued To** value from your X.509 certificate. (You recorded this value in the previous part of this procedure.)
 - iii. (Optional) If you are using a custom port to connect to this service, append the port number at the end of the host name, separated by a semicolon. For example:

```
https://ssolabmem.ssolab.com:1880.
```
- c. Save and close the file.

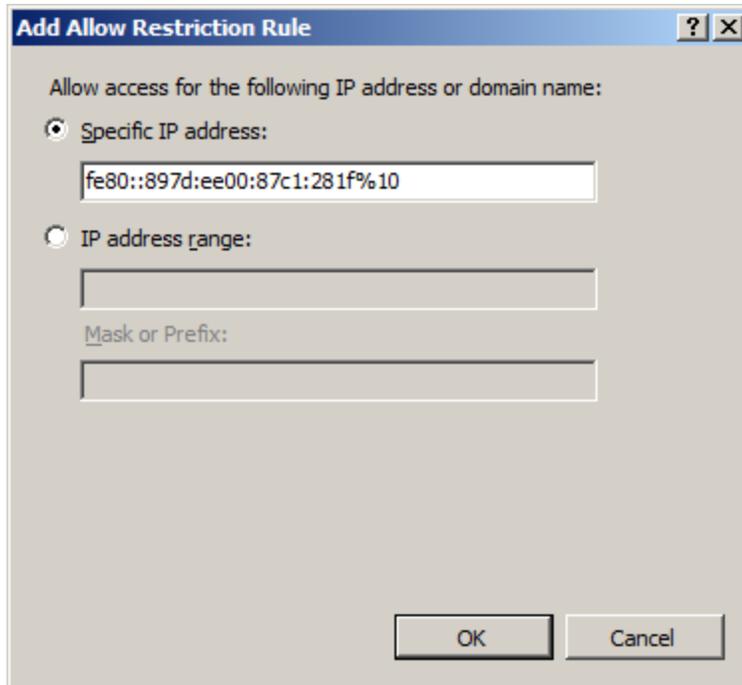
```

-->
        <authentication mode="windows"/>
        <!-- APPLICATION-LEVEL TRACE LOGGING
Application-level tracing enables trace log output for every page within an
application.
Set trace enabled="true" to enable application trace logging. If
pageOutput="true", the
trace information will be displayed at the bottom of each page. Otherwise, you
can view the
application trace log by browsing the "trace.axd" page from your web application
root.
-->
        <trace enabled="false" requestLimit="10" pageOutput="false"
traceMode="sortByTime" localOnly="true"/>
        <!-- SESSION STATE SETTINGS
By default ASP.NET uses cookies to identify which requests belong to a
particular
session.
If cookies are not available, a session can be tracked by adding a session
identifier
to the URL.
To disable cookies, set sessionState cookieless="true".
-->
        <sessionState mode="InProc" stateConnectionString="tcpip=127.0.0.1:42424"
sqlConnectionString="data source=127.0.0.1;user id=sa;password=" cookieless="false"
timeout="1"/>
        <!-- GLOBALIZATION
This section sets the globalization settings of the application.
-->
        <globalization requestEncoding="utf-8" responseEncoding="utf-8"/>
    </system.web>
    <appSettings>
        <add key="Adminsvc.administration"
value="https://ssolabmem/vgoSelfServiceReset/webServices/administration.asmx"/>
        <add key="Resetsvc.PasswordReset"
value="https://ssolabmem/vgoSelfServiceReset/webServices/PasswordReset.asmx"/>
    </appSettings></configuration>

```

Step 3: Granting Password Reset Server Access to the WebServices Directory

1. Launch Microsoft IIS Manager if it is not already open.
2. In the **Connections** pane on the left, expand the target machine node and drill down to and select the **Sites > Default Web Site > WebServices** node.
3. In the **Default Web Site Home** pane in the center, double-click the **IP Address and Domain Restrictions** icon.
4. In the **Actions** pane on the right, click **Add Allow Entry...**
5. In the **Add Allow Restriction Rule** dialog that appears, do the following:
 - a. Select the **Specific IP Address** radio button.
 - b. Enter the IPv4 or IPv6 address of the target machine.



- c. Click **OK** to save your changes and dismiss the dialog.

Step 4: Restricting Password Reset Connectivity to SSL Only

1. Launch Microsoft IIS Manager if it's not already open.
2. In the **Connections** pane on the left, select the target machine node.
3. Under the target machine node, drill down to and select the **Sites > Default Web Site** node.
4. In the **Default Web Site Home** pane in the center, double-click the **SSL Settings** icon.
5. In the **SSL Settings** screen in the center pane, select the **Require SSL** check box and leave the **Client certificates** option at its default value.



6. In the **Actions** pane on the right, click **Apply** to save your changes.

Step 5: Testing the New Connectivity Configuration

Using a Web browser, access each of the Password Reset interface services using the new SSL-enabled URLs (i.e., using the https protocol header in place of http).

The URLs are as follows:

- **EnrollmentClient:** `https://<new_host_name>:<new_port>/vGOselfServiceReset/Webservices/Enrollment.asmx`
- **ManagementClient:** `https://<new_host_name>:<new_port>/vGOselfServiceReset/Webservices/Administration.asmx`
- **ResetClient:** `https://<new_host_name>:<new_port>/vGOselfServiceReset/Webservices/PasswordReset.asmx`

If any of the URLs fails to load, or a certificate error is displayed, check your configuration, such as virtual directory permissions and certificate options, and correct it if necessary, then try again.

Installing Password Reset Client-Side Software

 The Password Reset Client Installer provides the following functions:

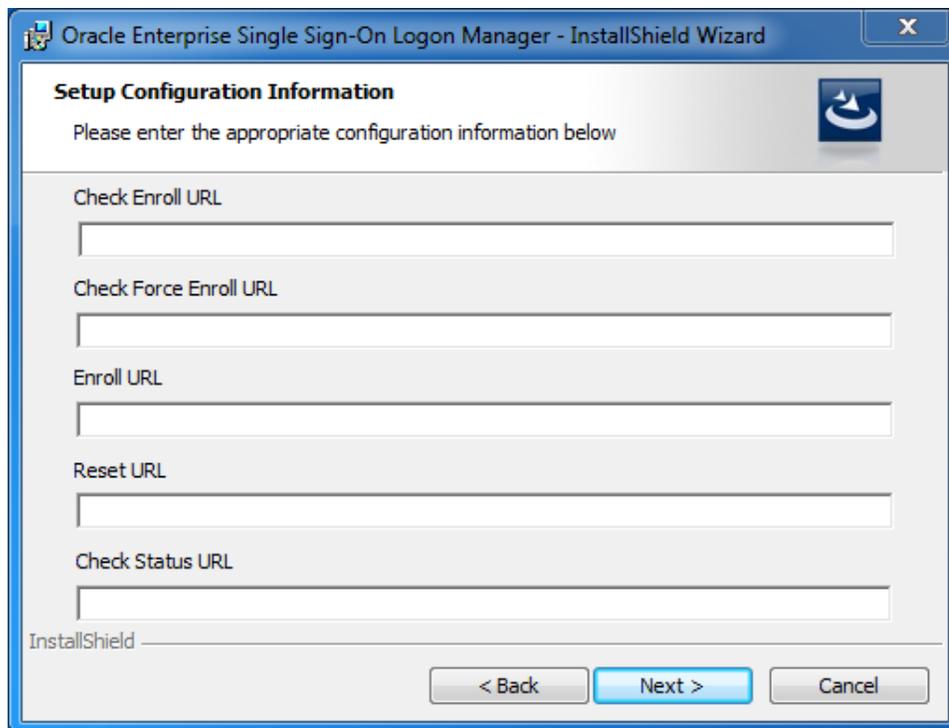
- Supplies the components needed to run Password Reset through the Windows interface
- Sets the registry values that point the Password Reset client to the enrollment and reset service
- Offers or obliges workstation users to enroll in the password reset service if so configured

To install and configure the Password Reset client-side software, make sure you have created a functioning installation of Password Reset server as described in [Installing the Password Reset Server-Side Component](#).

 To perform an unattended ("silent") installation of the Password Reset client, see [Installing the Password Reset Client-Side Software from the Command Line](#).

Then, follow the instructions in [Installing the Logon Manager Client-Side Software](#) and do the following when prompted by the installer:

1. When prompted to select between a Typical and Advanced installation, select Advanced.
2. In the Advanced Setup screen, click **Password Reset Client** and select **This feature, and all subfeatures, will be installed on local hard drive**. Make any other installation choices as desired, then click **Next**.
3. In the Setup Configuration Information screen, enter the Password Reset Server URLs:



When you have finished, click **Next**.

- Continue the installation process as prompted by the installer and described in [Installing the Logon Manager Client-Side Software](#).

Installing Password Reset Language Packs

In order to install additional language packs after initial installation :

- In the Windows control panel, launch **Add/Remove Programs**.
- Highlight **Logon Manager** and click the **Change** button.
- Navigate through the install wizard and click the **Modify** button.
- Select the additional language packs that you want to install.
- Reboot as instructed and re-launch **Add/Remove Programs** to complete the additional language installation.

Reverting to the Original Language Pack After Installing Another

To revert to the original language pack after you've installed another one:

- Launch **Add/Remove Programs** and modify the Logon Manager installation to set the appropriate language pack.
- Reboot as instructed after the installation finishes.
- Repair the installation.



You must repair the installation after modifying it. Failure to do so will cause improper functionality of the GINA button.

Installing Language Packs at the Command Line

In order to install the various language packs, you must install Password Reset using command line switches as illustrated below; otherwise the GINA stub will not appear on localized operating systems. You install the desired language pack by adding the language name to the string that follows the `ADDLOCAL` switch.

Following is the minimum command line for the `ADDLOCAL` switch:

```
msiexec /i "Location of .msi" ADDLOCAL=Gina,VersionTracker,English,
CheckEnrollment.x86_only,Release_Only
```

And following is an example of a command line to install silently (`/q`) with the German language pack added:

```
msiexec /i "Location of .msi" /q ADDLOCAL=Gina,vgo_sspr_client,English,German,
CheckEnrollment.x86_only,Release_Only
```

`/i` = Install

`/q` = Quiet installation

`ADDLOCAL` = Follow with options to install (listed below)

ADDLOCAL Options

Gina

- Required for all operating systems prior to Windows 7 (Windows Vista is not supported)
- *Do not* include for Windows 7

Required Items

- VersionTracker
- One of the following:
 - CheckEnrollment.x86_only (32-bit operating systems)
 - CheckEnrollment.x64_only (64-bit operating systems)
- One of the following:
 - Release_Only (32-bit operating systems)
 - Release_Only.x64 (64-bit operating systems)

For Installation with Windows Windows 7

- Vista_Only (32-bit)
- Vista_Only.x64 (64-bit)

Installable Language Packs (always install English)

- Brazilian Portuguese
- Czech
- Danish
- Dutch
- English
- Finnish
- French
- German
- Greek
- Hungarian
- Italian
- Japanese
- Korean
- Norwegian
- Polish
- Portuguese
- Romanian
- Russian
- Simplified Chinese
- Slovak
- Spanish
- Swedish
- Thai

- Traditional Chinese
- Turkish

Installing the Password Reset Client-Side Software from the Command Line



If you are upgrading the Client from an earlier version on the Microsoft Windows 7 32-bit operating system, you must uninstall the older version before performing the following procedure.

The Password Reset client can be installed via an **msiexec** command, using the following syntax:

```
msiexec /i [/q] c:\ESSO-LM_installer.msi programURLs [REBOOT=ReallySuppress]
/q = Quiet Mode: Suppress all installer user-interface messages. Refer to the
description of other Windows Installer command line options for msiexec at
http://msdn.microsoft.com.
```

REBOOT=ReallySuppress = Tells the Installer not to reboot under any circumstances.

Example

Using the following command line, you can perform a silent installation without a reboot of the workstation. This command assumes that the user's Windows directory is Windows and the Logon Manager installer file is named ESSO-LM_installer.msi:

```
c:\windows\system32\msiexec /i /q c:\ESSO-LM_installer.msi
REG_CHECKENROLLURL="http://host/vgoelfservicereset/resetclient/
checkenrollment.aspx"
REG_CHECKFORCEENROLLURL="http://host/vgoelfservicereset/resetclient/
checkforceenrollment.aspx"
REG_ENROLLURL=" http://host/vgoelfservicereset/enrollmentclient/enrolluser.aspx"
REG_RESETURL="http://host/vgoelfservicereset/resetclient/default.aspx"
REG_CHECKSTATUSURL="http://host/vgoelfservicereset/resetclient/
checkstatus.aspx" REBOOT=ReallySuppress
```



You must type out the full path to the installer .msi, as in the example above. A single space must separate each REG_*="*.aspx"—not a line return.

ProgramURLs (required)

```
REG_CHECKENROLLURL=" http://host/vgoelfservicereset/resetclient/checkenrollment.aspx"
```

```
REG_CHECKFORCEENROLLURL="
http://host/vgoelfservicereset/resetclient/checkforceenrollment.aspx"
```

```
REG_ENROLLURL="http://host/vgoelfservicereset/enrollmentclient/enrolluser.aspx"
```

```
REG_RESETURL=" http://host /vgoelfservicereset/resetclient/default.aspx"
```

```
REG_CHECKSTATUSURL="http://host /vgoelfservicereset/resetclient/checkstatus.aspx"
```

Where: host is the server name (or IP address) of the server that is running the Password Reset service.

Installing Password Reset without Logon Manager

To install Password Reset only on an end-user workstation without installing Logon Manager, use the following command:

```
msiexec /i "<lm_installer>.msi" TRANSFORMS="pr_client_only.mst"
```

Be sure to specify the full path and name to the installer file and the full path to the transform file.

Completing the Installation of the Password Reset Client

Perform the steps in this section to complete the installation of Password Reset Client component.

(Optional) Running the Reset Client Under a Specified User Account

The Password Reset client provides the ability to run the Reset client under a specified user account instead of the Local System account. This eliminates the possibility that the Reset client will have rights to access resources it should not.

To enable this feature, follow these steps:

1. Open a command prompt and run `aspnet_setreg -k:software\passlogix\sspr\windowsinterface -u:domain\username -p:password`, Replace `domain\username` and `password` with real values.
2. Ensure that the key `HKLM\Software\Passlogix\SSPR\WindowsInterface\ASPNET_SETREG` exists. There should be two values in the key: `password` and `userName`.
3. Rename the `ASPNET_SETREG` key to `RestrictedUser`.

The Reset Client should launch under the configured user. The Enrollment Client will run under the logged on user.

To test this feature:

1. Open the Registry and browse to `HKLM\Software\Passlogix\SSPR\WindowsInterface`.
2. Copy the value of `EnrollURL` and set `ResetURL` to that value.
3. Launch the Reset client. The Enrollment screen opens.

The Enrollment screen should identify you as the specified user successfully.

Disabling the "Redirection" Popup

You can disable the popup that indicates that Password Reset is redirecting the user to an external reset page.

To disable this popup, the Password Reset client will create the following setting before launching `windowsinterface.exe`, and then restore it after redirection: `HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Internet Settings Value: WarnonZoneCrossing`.

Specifying a Custom Window Title

You can configure Password Reset so that the Password Reset GINA button displays as a banner at the top of any window you choose.



To specify the windows that display this banner, add them to the list in: `HKLM\Software\Passlogix\SSPR\WindowsInterface\xx\GinaWindows`

where `xx` is the two-letter language code of the currently installed Password Reset language pack.

Within this key, add a `REG_SZ` value for each window title that you want to have display the banner. The value name will be `WindowTitleX`, where X is a sequence number starting from 1, and the value data is the window title. For example:

- `WindowTitle1=Log On to Windows`
- `WindowTitle2=Unlock Computer`



The window title must match exactly, including any leading or trailing white space.

Using Password Reset Client With a Custom Reset Web Application

You can configure the Password Reset client in the absence of a Password Reset server installation.

Follow the instructions to install Password Reset on the client machine.

1. Set the `ResetURL` value to point to the custom reset Web application.
2. Set the `StatusURL` to a resource that will return the success response. This forces Password Reset to bypass the status check and display the `ResetURL` contents. See below for details.

The `StatusURL` setting should point to a resource (such as an HTML file) that contains the following content:

```
<HTML>
<HEAD>
<TITLE>CHECKSTATUS</TITLE>
</HEAD>
<BODY>
GOOD SSPR STATUS
</BODY>
</HTML>
```

Installing Provisioning Gateway

This section describes the steps necessary for installing Provisioning Gateway. It covers the following topics:

- [Prerequisites for Installing Provisioning Gateway](#)
- [Upgrading an Existing Provisioning Gateway Installation](#)
- [Installing the Provisioning Gateway Server-Side Component](#)
- [Completing the Installation of Provisioning Gateway](#)

Prerequisites for Installing Provisioning Gateway

Before you install Provisioning Gateway, ensure the prerequisites listed in this section have been satisfied.



Please refer to the latest release notes to find out about last-minute requirements or changes that might affect your installation.

Prerequisites for Installing the Provisioning Gateway Client-Side Component

- The Provisioning Gateway client-side component at the very minimum requires the following software to function:
 - Internet Explorer 8.0 and above with 128-bit encryption or Mozilla Firefox 5.0 and above
 - Microsoft® .NET Framework 2.0 (installed as part of the Provisioning Gateway setup)
 - Microsoft Web Services Enhancements 3.0 (WSE 3.0) (installed as part of the Provisioning Gateway setup)
 - In order for the Provisioning Gateway support for the Logon Manager Agent to function properly, Logon Manager must be installed.
 - If you are installing the optional command-line interface, you must install a Java runtime environment version 1.6 or later on the target machine.

Prerequisites for Installing the Provisioning Gateway Server-Side Component

- In order to install the Provisioning Gateway server-side component, you must run the installer as a user with administrative privileges; otherwise, the installer will fail.
- Provisioning Gateway Server at the very minimum requires the following software to function:
 - Microsoft Windows Server 2003/2003 R2, or Windows Server 2008/2008 R2.
 - Microsoft Internet Information Server version 5.0 or later (6.x is recommended and is necessary if you are using Windows Server 2008) Provisioning Gateway uses the IIS Web server to provide a browser-based interface for user enrollment, general setup, and administrative tasks.



If you are installing Provisioning Gateway Server with IIS 7.0 running on Windows Server 2008, you must configure IIS 7.0 to run the Provisioning Gateway Web application as described in [Installing Provisioning Gateway Server on Windows Server 2008](#) as well as complete the post-installation steps described in [Completing the Installation of Provisioning Gateway](#).

- Microsoft Active Directory®, Microsoft ADAM/AD-LDS, Oracle Directory Server Enterprise Edition, Oracle Unified Directory, Oracle Virtual Directory, IBM LDAP Directory, Oracle Internet Directory, Novell eDirectory Server.



If Active Directory or ADAM/AD-LDS is used, the anonymous account used in IIS must have administrative privileges and the server must be joined to the domain.

- Microsoft SQL Server 2000, Microsoft SQL Server 2000 Desktop Engine (MSDE 2000), Microsoft SQL Server 2005 Express Edition, or Microsoft SQL Server 2005

(only required if you are using event logging) , or

- Oracle database
- During the installation of Provisioning Gateway, you must provide the following information to set up a connection to your Provisioning Gateway repository:

host	Name of the server hosting the directory server instance.
port	Port number of directory server instance.
name1[name2, name3]	Distinguished name of the directory server domain root.

- An X.509 Certificate for SSL must be obtained from a certificate authority (CA). A trusted root CA certificate should also be downloaded from your certificate authority into the list of trusted root CA certificates on the local computer. For more information, see [Completing the Installation of Provisioning Gateway](#).

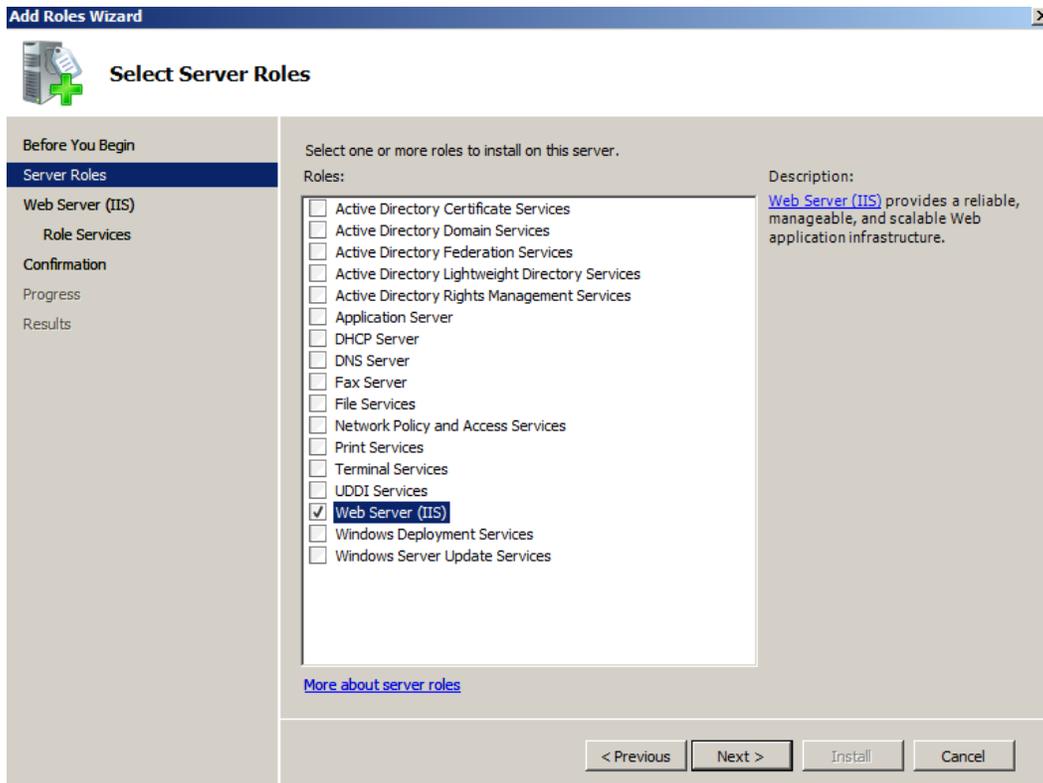
A certificate setup guide is provided with the documentation suite. If you do not have a certificate authority in place and want to use Microsoft Certificate Services to obtain certificates, refer to the *Oracle Enterprise Single Sign-On Suite Plus Administrator's Guide*, which explains how to obtain the necessary certificates using Microsoft Certificate Services.

Installing Provisioning Gateway Server on Windows Server 2008

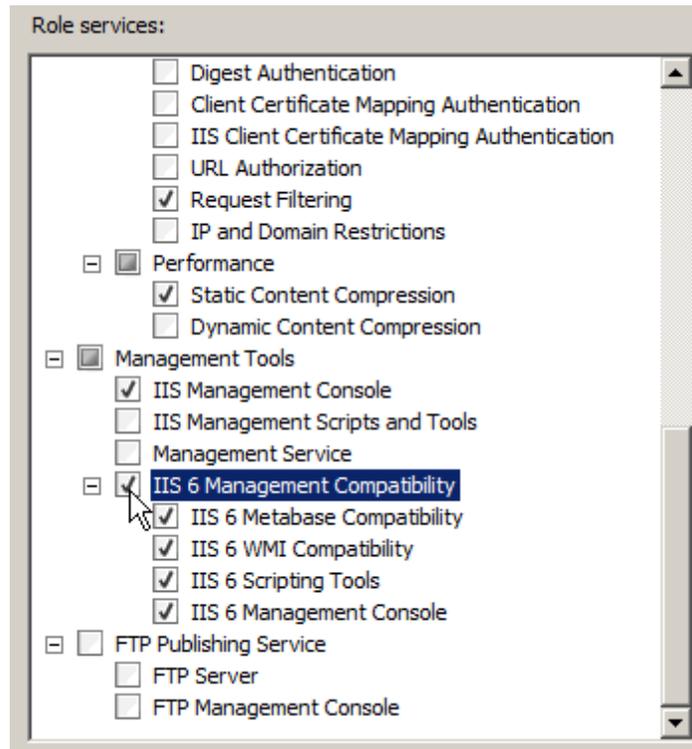
Because Windows Server 2008 uses a newer version of IIS (Internet Information Services), you must turn on IIS compatibility mode for the previous version of IIS if you are installing the Provisioning Gateway Server on a Windows 2008 Server machine.

To add the IIS 6 Management Compatibility role service to IIS:

1. Start your Windows 2008 Server.
2. From the Initial Configuration Tasks screen, under **Customize This Server**, click **Add Roles**.
3. In the Roles window, select **Web Server (IIS)**; click **Next**.



4. In the Role services window, select the **Windows Authentication** service under Web Server > Security.
5. In the Role services window, scroll down and select **IIS 6 Management Compatibility**.

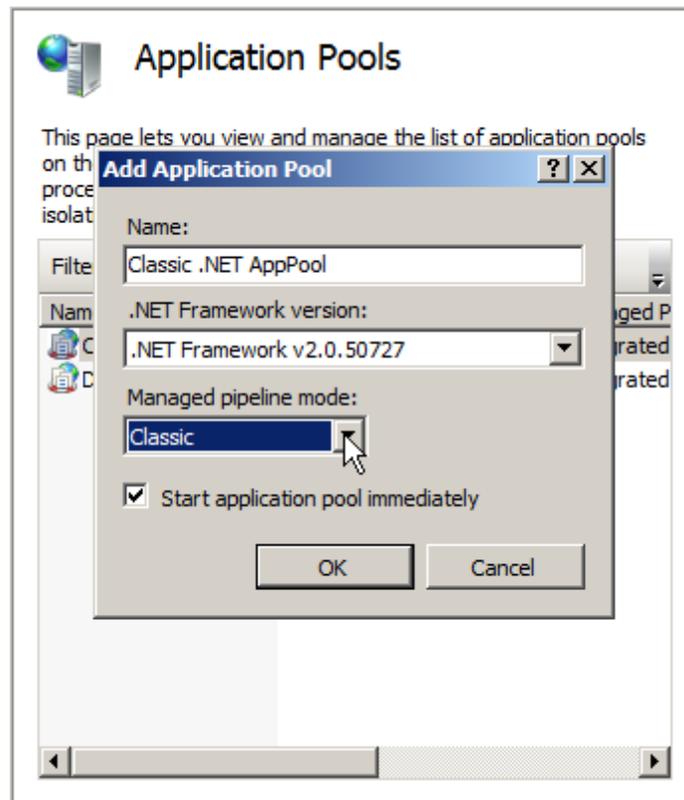


6. Click **Next**.
7. From the Confirmation screen of the Add Roles wizard, click **Install**.
8. After configuring IIS 6 Management Compatibility, install the Provisioning Gateway Server as described in [Installing the Provisioning Gateway Server-Side Component](#).

(Windows 2008 Server Only) Creating a Classic .NET Application Pool for Provisioning Gateway Server

Before installing, Provisioning Gateway, you must create a classic .NET application pool. You will move the Provisioning Gateway Web application into this pool after installation.

1. Launch Microsoft IIS Manager.
2. From the tree, select **server_name** > **Application Pools**.
3. Right-click **Application Pools** and select **Add Application Pool...** from the drop-down menu.
4. For the name of the new app pool, enter **Classic .Net App Pool**. From the Managed Pipeline Mode field drop-down menu, select **Classic**.



For all Web Services using .NET and IIS, where .NET is installed before IIS is configured, you must run the following command after creating the classic application pool:

```
aspnet_regiis -i
```

The location of the aspnet_regiis tool is as follows:

- 32-bit systems: %WINDIR%\Microsoft.NET\Framework\v2.0.50727
- 64-bit systems: %WINDIR%\Microsoft.NET\Framework64\v2.0.50727

Prerequisites for Unattended ("Silent") Installations

In order to successfully install Provisioning Gateway in unattended ("silent") mode, the Windows Management Instrumentation (WMI) service must be running before the installer is executed.

To check whether the WMI service is running, and start it if necessary, do the following on each target machine:

1. Open the System Management Console.
2. Open the **Services** snap-in.
3. Navigate to the **Windows Management Instrumentation** service and check its status and startup mode.
4. Depending on the status, do one of the following:
 - If the status is **Started**, the WMI service is running; proceed to the next section.
 - If the status is blank, check the service's startup type and start it as follows:
 - If the startup type is **Disabled**, do the following:
 1. Double-click the service.
 2. In the dialog box that appears, change the startup type to **Manual** or **Automatic**, as required by your environment.
 3. Click **Apply**.
 4. Click **Start** to start the service. The status changes to **Started**.
 - If the startup type is not **Disabled**, do the following:
 1. Double-click the service.
 2. In the dialog box that appears, Click **Start** to start the service.
 3. The status changes to **Started**.
 4. Click **OK**.
5. Click **OK** to close the service properties dialog box.

Upgrading an Existing Provisioning Gateway Installation

If you are upgrading from an earlier version of Provisioning Gateway, perform the following procedures:

- **Provisioning Gateway Server.** Follow the instructions in [Installing Provisioning Gateway](#) to install Provisioning Gateway Server. After running the installer, reset Microsoft IIS and verify that the anonymous service accounts are still assigned.
- **Provisioning Gateway Agent.** The Agent has been integrated into Logon Manager and is installed with it automatically. To upgrade, uninstall all previous versions of Provisioning Gateway Agent, shut down the Logon Manager, then follow the instructions in [Installing the Logon Manager Client-Side Software](#). After running the installer. Restart Logon Manager when done.

Installing the Provisioning Gateway Server-Side Component

To install and configure the Provisioning Gateway Server:

1. Close all programs.
2. Launch the **ESSO-PG_Server.msi** installer file.
3. On the Welcome Panel, click **Next**.
4. On the Customer Agreement screen, enter your user name, organization name, and select who to **Install this application for: All Users** or **Only for you**. Click **Next**.
5. On the Setup Type screen, select **Complete** or **Custom**. **Complete** installs all program files. **Custom** allows you to choose which program files are installed and where they are installed. Custom installations are only recommended for advanced users. Click **Next**.
6. Provisioning Gateway is ready to be installed. Click **Install**. Wait for the installation to complete. When it is done, click **Finish**.

(Optional) Installing the Client-Side Provisioning Gateway Command-Line Interface (CLI)



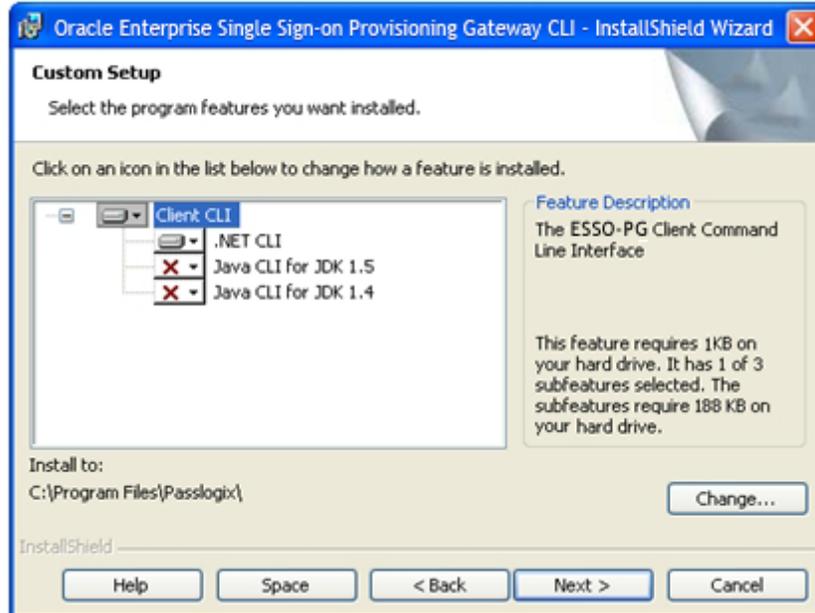
This installation procedure is optional. The Provisioning Gateway Client CLI SDK is supplied as an integration component for Provisioning Solutions.

This software requires that a Java runtime environment version 1.6 or later is installed on the target machine.

The Provisioning Gateway Server provides a Web service that allows integration with other third-party provisioning systems. The Provisioning Gateway CLI is used to communicate with this Web service. You can use it as a traditional scripting tool or, if you prefer, you can use the SDK library to develop more complex integration solutions and connectors for the Provisioning Gateway Server.

Complete the following procedure to install and configure the Provisioning Gateway CLI. For more information on the CLI syntax and usage, refer to the *Provisioning Gateway CLI Guide*.

1. Close all programs.
2. Launch the **ESSO-PG_ClientCLI.msi** installer file.
3. On the Welcome Panel, click **Next**.
4. On the Customer Agreement panel, enter your user name, organization name, and select who to **Install this application for: All Users** or **Only for you**. Click **Next**.
5. The Setup Type panel appears. Select **Complete** or **Custom**. **Complete** installs all program files; **Custom** allows you to choose what program files are installed and the location. Custom installations are only recommended for advanced users. To install the Java CLI, you must choose the custom panel. Installation choices for the Java CLI are JDK 1.4 or 1.5.



6. Select the proper setup options and click **Next**.
7. Provisioning Gateway is ready to be installed. Click **Install**.
8. When the installation is complete, click **Finish**.

Completing the Installation of Provisioning Gateway

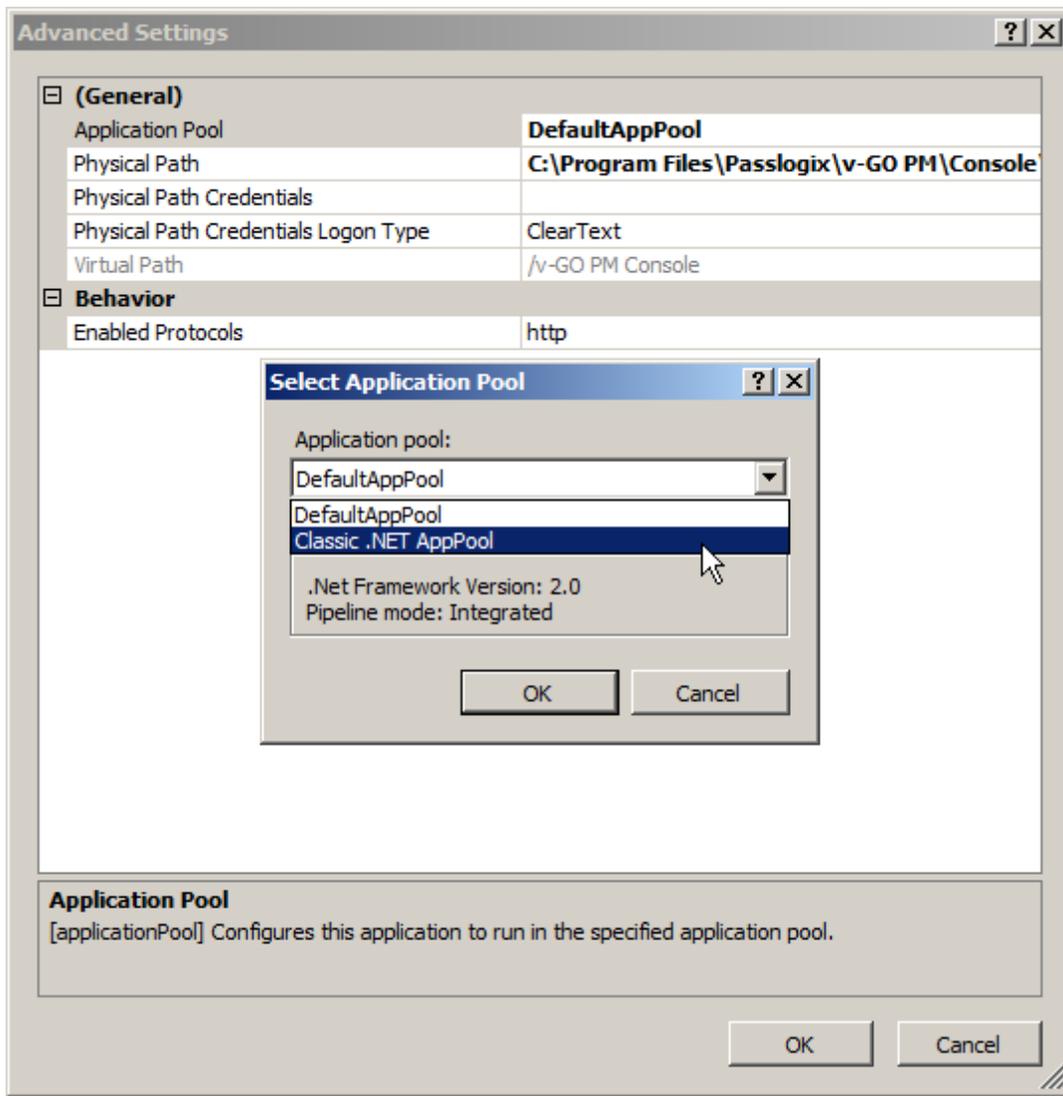
This section describes the tasks necessary to create a fully functional Provisioning Gateway deployment. It covers the following topics:

- [\(Windows Server 2008 Only\) Creating an Application Pool for Provisioning Gateway](#)
- [Setting the CycleInterval Registry Key](#)
- [Granting Provisioning Rights to Domain Users](#)
- [Configuring Syslog](#)
- [Creating or Identifying a User Account for Anonymous Logon](#)
- [Granting the IIS Anonymous Account Access to ADAM/AD-LDS](#)
- [Configuring Provisioning Gateway for SSL Connectivity](#)

(Windows Server 2008 Only) Creating an Application Pool for Provisioning Gateway

After installing Provisioning Gateway on Windows Server 2008 and above, you must move the Provisioning Gateway Console and Provisioning Gateway Service Web applications into the classic .NET application pool you created before the installation.

1. Launch Microsoft IIS Manager.
2. In the tree, navigate to **server_name > Sites > Default Web Site** and right-click **v-GO PM Console**.
3. Select **Manage Application > Advanced Settings**. In the Advanced Settings window, select **Application Pool**. In the Select Application Pool window, select **Classic .NET AppPool**.



4. Click **OK**.
5. Repeat this procedure to move the Provisioning Gateway Service into the Classic .NET App Pool.

Configuring a 64-bit OS to Run Provisioning Gateway Server

On a 64-bit Windows 2003 Server, you need to enable IIS 6.0 to run 32-bit applications. To do so:

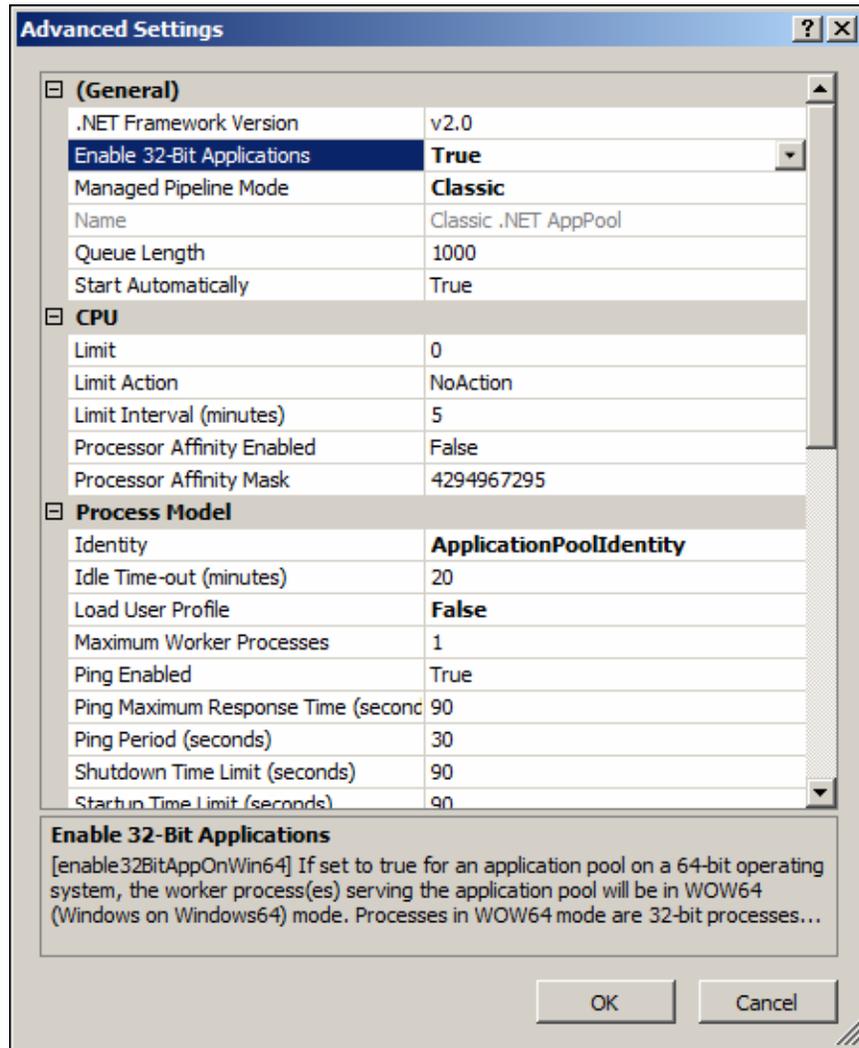
1. Open a command prompt and navigate to the %systemdrive%\Inetpub\AdminScripts directory.
2. Type the following command:


```
cscript.exe adsutil.vbs set W3SVC/AppPools/Enable32BitAppOnWin64 "true"
```
3. Press ENTER.
4. Restart IIS.

 These steps should be done after installing the Provisioning Gateway Server.

On a 64-bit Windows 2008 Server, you must enable running 32-bit applications for the Classic .NET Application Pool:

1. Open Internet Information Services (IIS) Manager.
2. Click **Application Pools**.
3. Right-click **Classic .NET AppPool** and select **Advanced Settings...**
4. Change "Enable 32-bit Applications" settings to **True** and click **OK**.



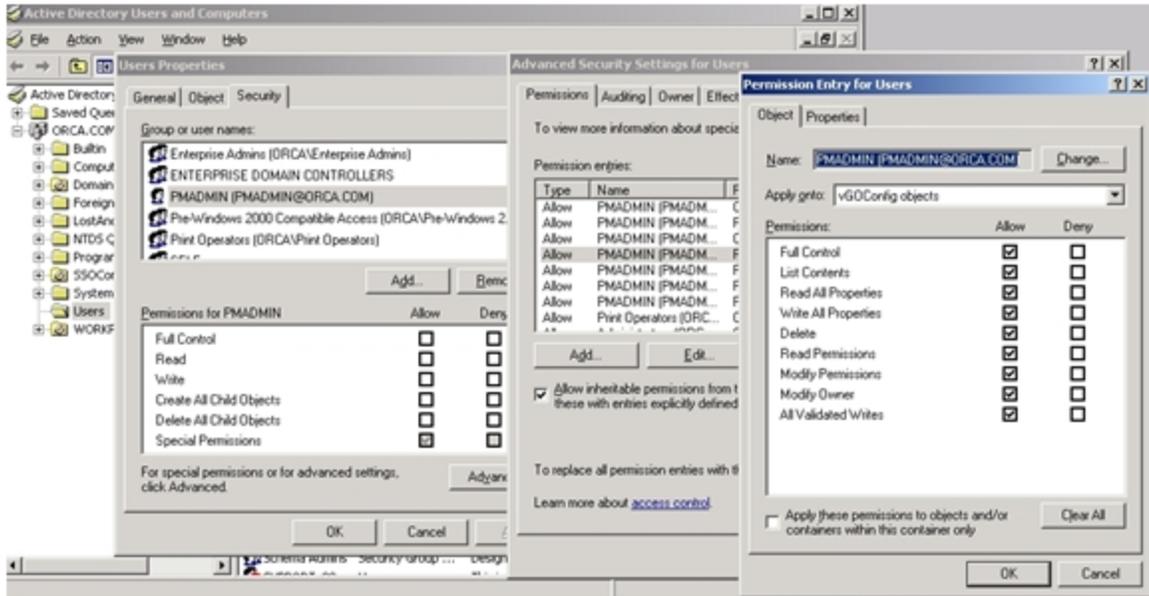
5. Restart IIS.

Granting the Required Permissions to the PMSERVICE Account

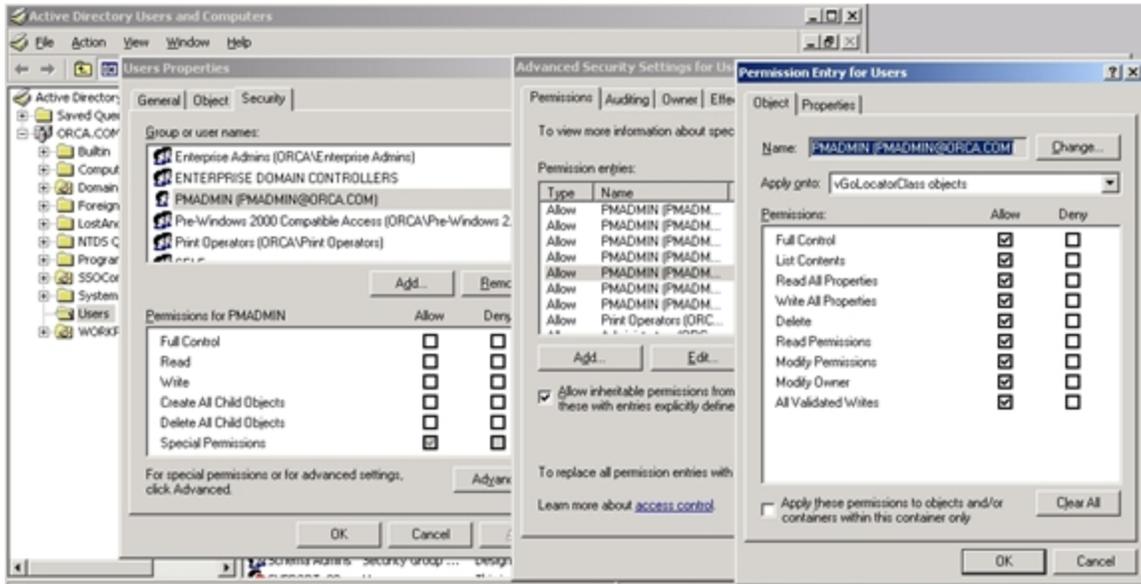
You must grant the permissions required by Provisioning Gateway to each repository container holding user data to the PMSERVICE account as follows:

1. In the repository, navigate to the Logon Manager configuration data container (usually named SSOConfig) and open its permission dialog, then do the following:

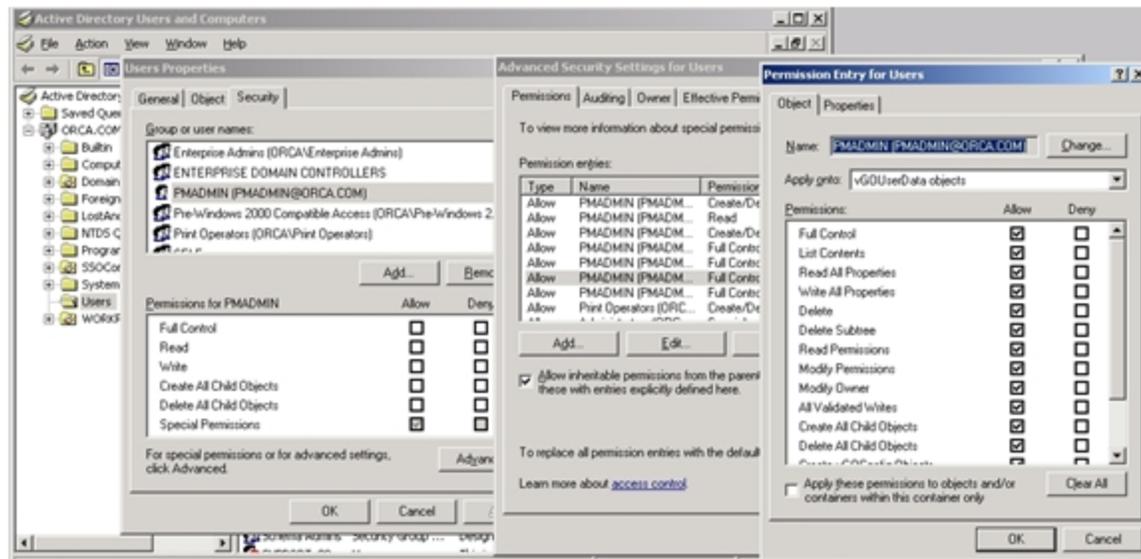
- a. Select **This object and all child objects** from the **Apply onto:** drop-down list.
 - b. Grant the PMSERVICE account read-only access to the SSOConfig container.
2. Navigate to the **Users** container and open its permissions dialog and do the following:
 - a. Select **User Objects** from the **Apply Onto:** drop-down list.
 - b. Grant the PMSERVICE account the following **ALLOW** privileges:
 - Create vGOConfig Objects
 - Delete vGOConfig Objects
 - Create vGOUserData Objects
 - Delete vGOUserData Objects
 - List Contents
 - Read All Properties
 - Read Permissions
 3. Grant the PMSERVICE account the **Full Control** privilege over vGOConfig objects:



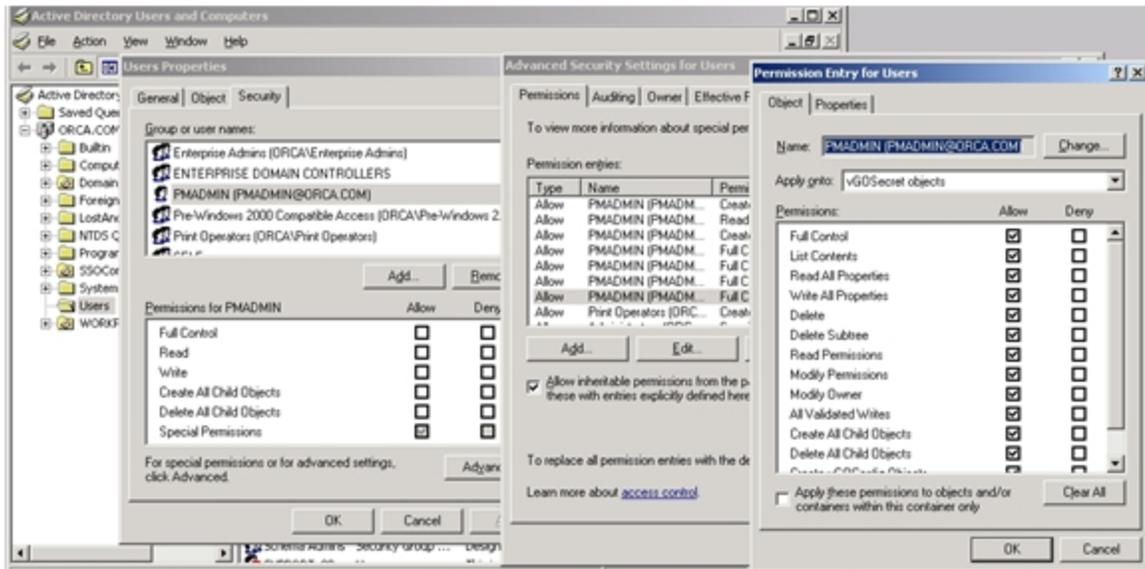
4. Grant the PMSERVICE account the **Full Control** privilege over vGOLocatorClass objects:



5. Grant the PMSERVICE account the **Full Control** privilege over vGOUserData objects:



6. Grant the PMSERVICE account the **Full Control** privilege over vGOSecret objects:



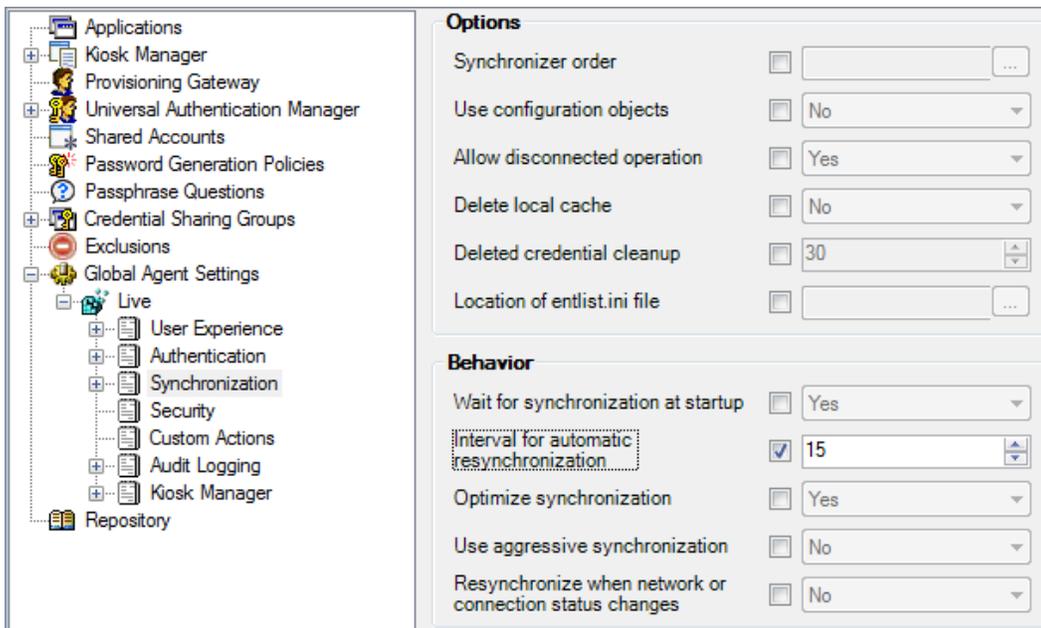
Setting the CycleInterval Registry Key

In order for Provisioning Gateway to function properly, the Provisioning Gateway Agent must synchronize to retrieve the provisioning instructions from the directory.

When you deploy Provisioning Gateway, you must decide on the synchronization interval. The `CycleInterval` registry key is used to force synchronization to occur on a regular interval. If this is not set to a non-zero value, synchronization only occurs upon some user action. This is not the desired behavior with Provisioning Gateway. Oracle recommends that this key be set to a value, for example, 15 minutes. This setting would guarantee that the provisioning instructions are pulled down from the directory within 15 minutes (or whatever interval is set) of when they are put there by the Provisioning Gateway Server.

The `CycleInterval` registry key can be set through the Oracle Enterprise Single Sign-On Administrative Console:

1. Open the Oracle Enterprise Single Sign-On Administrative Console by clicking **Start > Programs > Oracle > Oracle Enterprise Single Sign-On Administrative Console**.
2. Expand **Logon Manager > Global Agent Settings**, expand **Live**, and click **Synchronization**.
3. Set the Interval for automatic re-sync setting to the desired value.
4. Click **Tools > Write Global Agent Settings to HKLM**.
5. The Apply Settings dialog opens. Click **Yes**.



 This procedure applies only to running Logon Manager agents. If a user does not have Logon Manager running, the provisioning instructions are not processed until the user starts Logon Manager.

Processing the provisioning instructions requires that the user be authenticated to Provisioning Gateway. If the user is not authenticated to Provisioning Gateway (for example, the timeout expired) then an authentication UI is presented and the synchronization process is blocked until the user authenticates.

Granting Provisioning Rights to Domain Users

If you want an ordinary domain user to have the ability provision Logon Manager credentials via Provisioning Gateway, do the following:

- Create a user group and add the desired domain user accounts to it.
- **Grant the permissions described in Granting the Required Permissions to the PMSERVICE Account to the group.**
- Add the PMSERVICE account to the group.
- Add the desired domain user accounts to the group.

Configuring Syslog

After Provisioning Gateway installation is complete, you must configure Syslog:

1. Click on the **Settings** option, then click on the **Event Log**.
2. From the **Database Type** drop-down list, select **Syslog Daemon**.
3. Click **Save Changes**.

Complete the following Registry changes:

1. Open regedit and navigate to the following location:

HKEY_LOCAL_MACHINE\SOFTWARE\Passlogix\Extensions\EventManager\Syslog

2. Enter the IP address of your Syslog server in the RemoteAddress key.



If you are using a non-standard Syslog port, enter the correct port number of your Syslog server in the RemotePort key.

Creating or Identifying a User Account for Anonymous Logon

You must create or identify a dedicated Anonymous User account through which Provisioning Gateway users and administrators access Provisioning Gateway Web Services. This Anonymous User account should be a member of the Administrators group.



Because the default Anonymous User account in IIS, IUSR_MACHINE_NAME, is not a member of the Administrator group, you must create or choose a domain user account that is an Administrator; this will allow the account to perform the following tasks:

- Change which Web service account to use from the management console
- Read from and write to the directory service (if Active Directory or ADAM/AD-LDS)
- Write to the local-machine registry IHKLM).

To create a new user account or assign Administrator rights to an existing account, use the Active Directory Users and Computers console (for an Active Directory domain) or the Computer Management console (for non-Active Directory domains)

The user account you create or choose is specified as the Anonymous User dialog of the Services tool during this step.

If you are using Windows Server 2008

1. Launch the Microsoft IIS Manager.
2. In the left-hand tree, drill down to **<Server> > Sites > Default Web Site** and select the Provisioning Gateway Console site node.
3. In the IIS section of the center pane, double-click **Authentication**.
4. In the Authentication pane, right-click **Anonymous Authentication** and select **Edit**.
5. In the dialog box that appears, select **Specific User** and click **Set**.
6. In the dialog box that appears, enter the name of the anonymous access user account in the **<DOMAIN>\<user>** form, and the appropriate password, then click **OK**.
7. Click **OK** in the Edit Anonymous Access... dialog to dismiss it.
8. Repeat steps 2-7 for the Provisioning Gateway Service site.
9. When you have finished, restart Microsoft IIS to apply your changes.

If you are using Windows Server 2003

1. Launch the Microsoft IIS Manager.
2. Locate the Provisioning Gateway Console node in the tree, right-click on it, and click **Properties**.
3. Click the **Directory Security** tab and click the **Edit** button next to **Anonymous Access**
4. Mark the **Anonymous Access** checkbox and enter the username and password of the anonymous user. The anonymous user must have local administrative access.



By default, the Provisioning Gateway Management Console is not restricted. Any user with a credential in the backend storage can log in. If you want to restrict access to a particular group, please see the Additional Security Settings in the Provisioning Gateway Administrator Guide.

Granting the IIS Anonymous Account Access to ADAM/AD-LDS



This step only applies to ADAM/AD-LDS users. Use the account chosen in Step 4 above.

1. Launch the ADAM/AD-LDS command line interface.
2. Enter:

```
dsac ls [[SERVER:PORT\DISTINGUISHED_NAME] /g [USER]:ga /i:t"
```

For example:

```
dsac ls \\localhost:50000\ou=pm,dc=passlogix,dc=com /g PLX\PMWeb:ga /i:t
```

3. To verify that the account was given access, type:

```
dsac ls \\SERVER:PORT\DISTINGUISHED_NAME
```

The output shows the security information for the directory object. The Anonymous Account should appear in the list with full access.

Configuring Provisioning Gateway for SSL Connectivity

Before configuring Provisioning Gateway for SSL connectivity, you must obtain an X.509 Certificate from a trusted certificate authority. This trusted CA must be installed in the list of trusted Root CAs.

The certificate must be valid for the current date and must contain the name of the Web site (machine name).

The following instructions assume that these certificates are available at known locations.



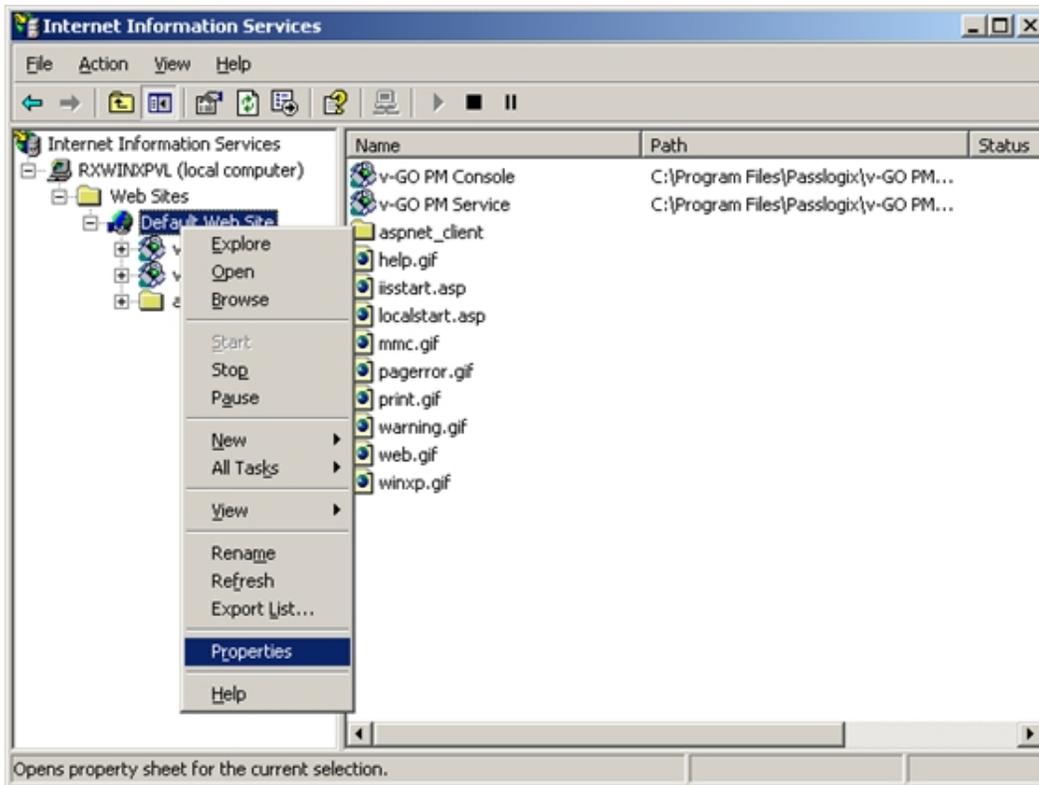
The following articles from the Microsoft Web site can be referred to for information on installing certificates and setting up SSL:

"How to: Obtain an X.509 Certificate" <http://msdn2.microsoft.com/en-us/library/ms819929.aspx>

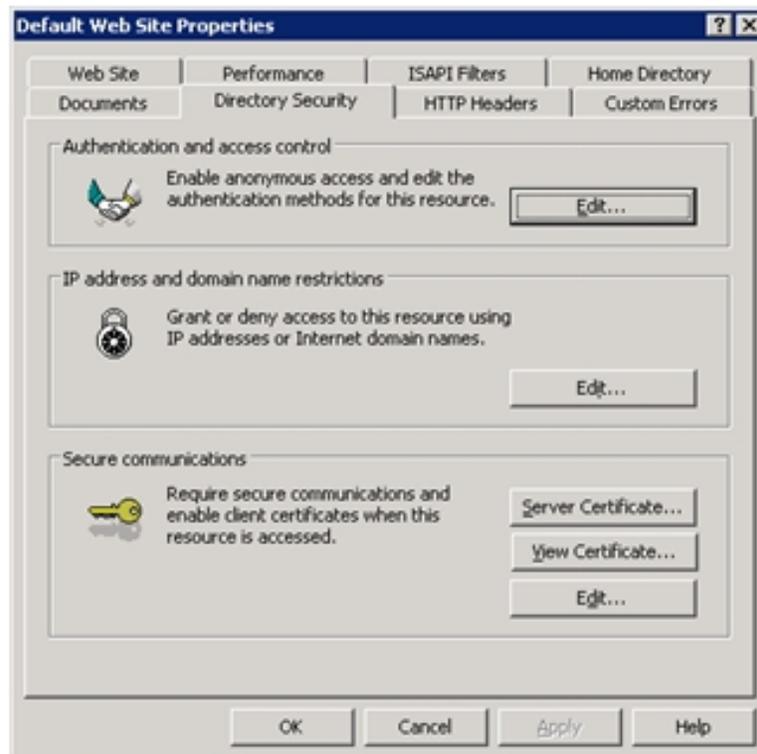
"How to: Set Up SSL on a Web Server" <http://msdn2.microsoft.com/en-us/library/aa302411.aspx>

If you use Microsoft Certificate Services to obtain the X.509 certificate, choose a Server Authentication Certificate. Also, enable the **Mark keys as exportable** and **Use local machine store** options under the **Key Options** section.

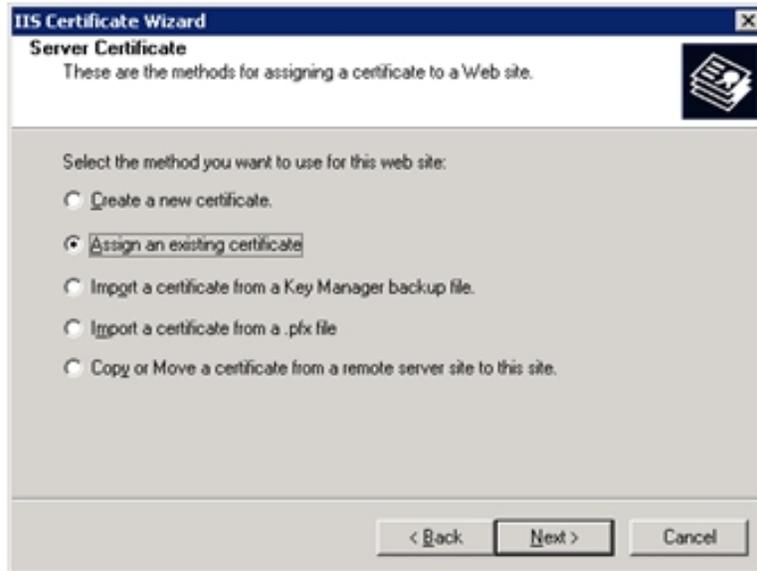
1. Go to **Control Panel > Internet Information Services**. Right-click **Default Web Site**. Select **Properties**.



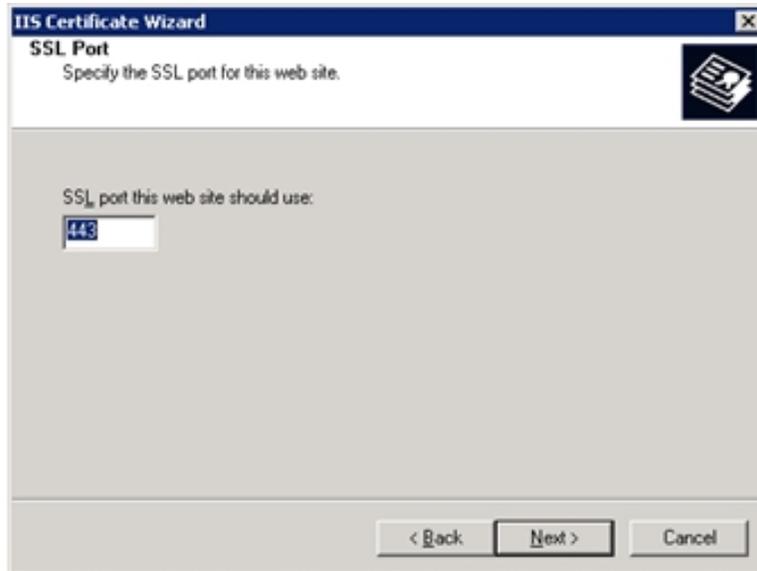
2. Click the **Directory Security** tab and under **Secure Communications**, click **Server Certificate**.



3. The Web Server Certificate Wizard opens. This is where you generate a request for a certificate. Click **Next**.
4. Select **Assign an existing certificate** and click **Next**.



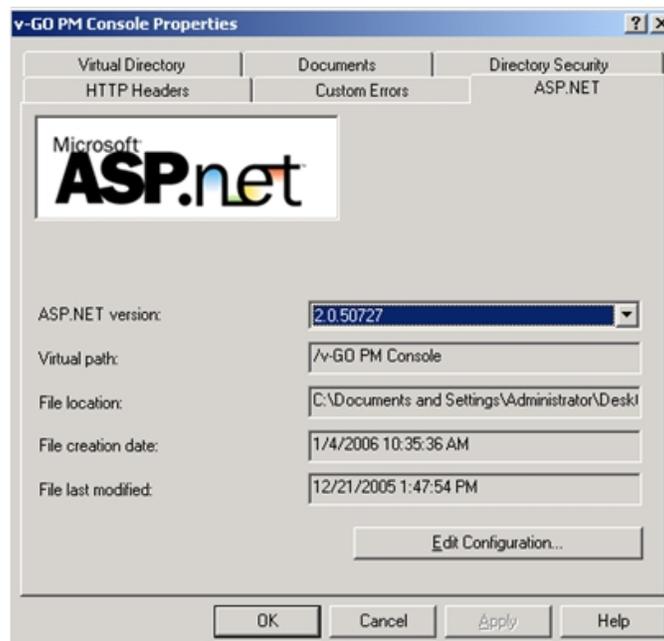
5. Highlight the certificate to assign and click **Next**.
6. The default SSL port is 443. Accept the default and click **Next**.



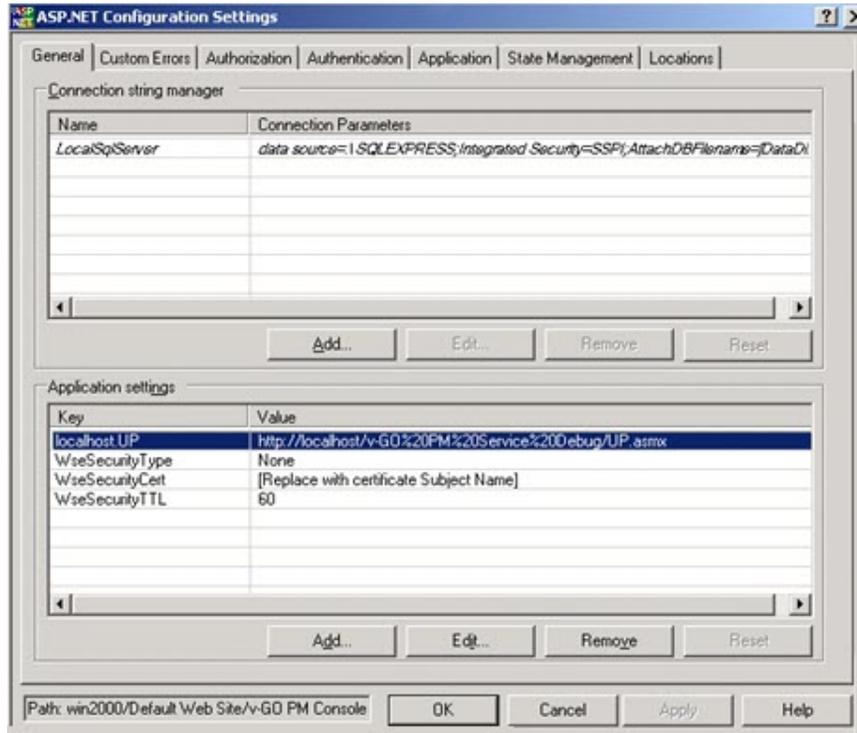
7. Review the summary of your request. Click **Next**.
8. Click **Finish**.
9. The Directory Security tab will still be open. Under **Secure Communications**, click **Edit**.
10. In the Secure Communications dialog box, check **Require secure channel (SSL)** and **Require 128-bit encryption**. Click **OK** to close the dialog.



11. On the Internet Information Services Tree (see screen following step 1), select Provisioning Gateway Console. Right-click and select **Properties**. To enable SSL for the Console, repeat steps 2 through 10. The next two steps ensure that the Console can communicate with the Web service.
12. Select the ASP.NET tab (on the Provisioning Gateway Console Properties dialog box). Verify that the ASP.NET version is set to 2.0.x. (If it is not set to 2.0, change the setting, then click **Apply**). Click **Edit Configuration**.



- Under Application Settings, select **localhost.UP** and click **Edit**.



- In the **Value** field, change the prefix of the URL to **https**. The console will now communicate over SSL with the Web service.

Installing Universal Authentication Manager

This section describes the steps necessary for installing Universal Authentication Manager.

It covers the following topics:

- [Prerequisites for Installing Universal Authentication Manager](#)
- [Upgrading an Existing Universal Authentication Manager Installation](#)
- [Installing the Universal Authentication Manager Client-Side Software](#)
- [Completing the Installation of Universal Authentication Manager](#)

Prerequisites for Installing Universal Authentication Manager

Before you install Universal Authentication Manager, ensure the prerequisites listed in this section have been satisfied.

Prepare the Universal Authentication Manager Repository

Before installing Universal Authentication Manager in enterprise mode, you must prepare your Microsoft Active Directory repository for use with Universal Authentication Manager as described in [Preparing the Universal Authentication Manager Repository](#). Microsoft ADAM/AD-LDS is not supported.

Prerequisites for Universal Authentication Manager Logon Methods

Universal Authentication Manager requires and supports various third-party software, hardware, and middleware for the logon methods. The general prerequisites are listed below. For a detailed list of supported products and versions for this release, refer to the [Oracle Enterprise Single Sign-On Suite Plus Release Notes](#).

Prerequisites for Using Smart Cards

The following third-party software and hardware components are required to use smart cards with Universal Authentication Manager:

- Supported smart card middleware software (PKCS# 11, MiniDriver/Base CSP, .NET)
- Supported smart card readers and drivers
- Supported smart cards
- Each card must have an embedded serial number.
- If using Smart Card PIN mode, each card must have a valid digital certificate and a key pair, which can be generated either by third-party tools or Universal Authentication Manager. Oracle recommends using the method that conforms more closely to your organization's security policies. Cards without a valid certificate and key pair can only be used with a Universal Authentication Manager-generated PIN.



To have Universal Authentication Manager generate a key pair, you must configure it to do so via Universal Authentication Manager registry settings, as described in the *Oracle Enterprise Single Sign-On Universal Authentication Manager Administrator's Guide*. Universal Authentication Manager does not generate digital certificates and one is not required in such scenario.

- Your card's middleware must conform to the Microsoft Base CSP standard **or** be both fully PKCS# 11-compliant and provide a CSP module.
- If using Windows XP and Microsoft Base CSP-compliant middleware, the Microsoft Base CSP framework must be installed.
- Sagem smart cards are not supported in this release of Universal Authentication Manager.

After the smart card middleware is installed, you must merge the appropriate registry file with it. The registry files are available in the Universal Authentication Manager installation folder in the /SmartCard subfolder. Double-click the registry file to merge it. The following table displays the registry file for each supported smart card:

Card	Family/Type	Middleware	Registry File
RSA smart card 5200	PKCS11	RSA Authentication Client 2.0	smart_providers_pkcs11_rsa.reg
NetMaker Net iD - CardOS 1	PKCS11	NetMaker Net iD 4.6	smart_providers_pkcs11_netid.reg
ORGA JCOP21 v2.2	PKCS11	SafeSign/RaakSign Standard 3.0.23	smart_providers_pkcs11_safesign.reg
Oberthur ID-ONE Cosmo	PKCS11	SafeSign/RaakSign Standard 3.0.23	smart_providers_pkcs11_safesign.reg
Athena IDProtect	PKCS11	SafeSign/RaakSign Standard 3.0.23	smart_providers_pkcs11_safesign.reg
Athena ASECard Crypto	PKCS11	Athena ASECard Crypto 4.33	smart_providers_pkcs11_athena.reg
HID Crescendo 700	PKCS11	HID RaakSign Standard 2.3	smart_providers_pkcs11_raaksign.reg
Gemalto Cyberflex 64K (v2c) SPE Required / SPE Optional	PKCS11	Gemalto Access Client 5.5 Xiring CCID Driver version 1.00.0002 or later / XISIGN reader Gemalto PC-PinPad version 4.0.7.5 or later / PC PinPad reader	smart_providers_pkcs11_gemalto.reg
IBM JCOP21id	PKCS11	SafeSign Identity Client 2.2.0	smart_providers_pkcs11_safesign.reg
DigiSign JCOP with MyEID Applet	PKCS11	Fujitsu mPollux DigiSign Client 1.3.2-34 (1671)	smart_providers_pkcs11_fujitsu.reg

Card	Family/Type	Middleware	Registry File
Oberthur ID-One Cosmo 64 v5.2D Fast ATR with PIV application SDK	PKCS11	ActivIdentity ActivClient 6.1	smart_providers_pkcs11_actividentity.reg
Cyberflex 64K	PKCS11	Gemalto Access Client 5.5	smart_providers_pkcs11_gemalto.reg
HID Crescendo 200	MS Base CSP/MiniDriver	HID Global MiniDriver for MS Base smart card CSP	smart_providers_basecsp.reg
Gemalto .NET v2+	MS Base CSP/MiniDriver	Gemalto MiniDriver for Microsoft Windows XP	smart_providers_basecsp.reg
Oberthur ID-ONE Cosmo	MS Base CSP/MiniDriver	Oberthur ID-ONE MiniDriver for MS Base smart card CSP	smart_providers_basecsp.reg
Athena ASECard Crypto ILM	MS Base CSP/MiniDriver	Athena ASECard Crypto ILM MiniDriver for MS Base smart card	smart_providers_basecsp.reg

Prerequisites for Using Proximity Cards

The following third-party hardware components are required to use Proximity Cards with Universal Authentication Manager.

- Supported Proximity Card readers and drivers
- Supported Proximity or Contactless Cards and tokens

Prerequisites for Using Fingerprint Readers

The following third-party hardware components are required to use a fingerprint reader with Universal Authentication Manager.

- Supported fingerprint readers and drivers
- For the Fingerprint logon method, BIO-key BSP version 1.10 must be installed.

Prerequisites for Unattended ("Silent") Installations

In order to successfully install Universal Authentication Manager in unattended ("silent") mode, the Windows Management Instrumentation (WMI) service must be running before the installer is executed.

To check whether the WMI service is running, and start it if necessary, do the following on each target machine:

1. Open the System Management Console.
2. Open the **Services** snap-in.
3. Navigate to the **Windows Management Instrumentation** service and check its status and startup mode.
4. Depending on the status, do one of the following:
 - If the status is **Started**, the WMI service is running; proceed to the next section.
 - If the status is blank, check the service's startup type and start it as follows:
 - If the startup type is **Disabled**, do the following:
 1. Double-click the service.
 2. In the dialog box that appears, change the startup type to **Manual** or **Automatic**, as required by your environment.
 3. Click **Apply**.
 4. Click **Start** to start the service. The status changes to **Started**.
 - If the startup type is not **Disabled**, do the following:
 1. Double-click the service.
 2. In the dialog box that appears, Click **Start** to start the service.
 3. The status changes to **Started**.
 4. Click **OK**.
5. Click **OK** to close the service properties dialog box.

Configuring Universal Authentication Manager for Synchronization with a Repository



Before completing the procedures in this section, note that:

- Oracle recommends that you install Universal Authentication Manager in local mode and switch it to enterprise (synchronization) mode (as described in the *Oracle Enterprise Single Sign-On Universal Authentication Manager Administrator's Guide*) only after you have prepared the repository and configured synchronization settings. Otherwise, Universal Authentication Manager data structures may not be correctly created or permissions correctly set within the repository.
- When deploying Universal Authentication Manager in enterprise mode, users must not enroll in any logon methods until synchronization with the repository has been properly configured and tested. Otherwise, enrollment data will be lost.
- Only Microsoft Active Directory is supported as a repository.

In order to allow Universal Authentication Manager to centrally store and manage policies and enrollment data, you must prepare an Active Directory-based repository and configure Universal Authentication Manager for synchronization with that repository by performing the following tasks:

- [Create a Universal Authentication Manager Service Account](#)
- [Extend the Schema](#)
- [Enable Data Storage Under User Objects](#)
- [Initialize Universal Authentication Manager Storage](#)
- [Configure the Universal Authentication Manager Synchronizer](#)

When assigning user groups, keep the following in mind:

- User groups used should be in the same domain,
- Use security groups, not distribution groups,
- Universal Authentication Manager will only support a single Active Directory domain.

Preparing the Repository when Logon Manager is Already Deployed

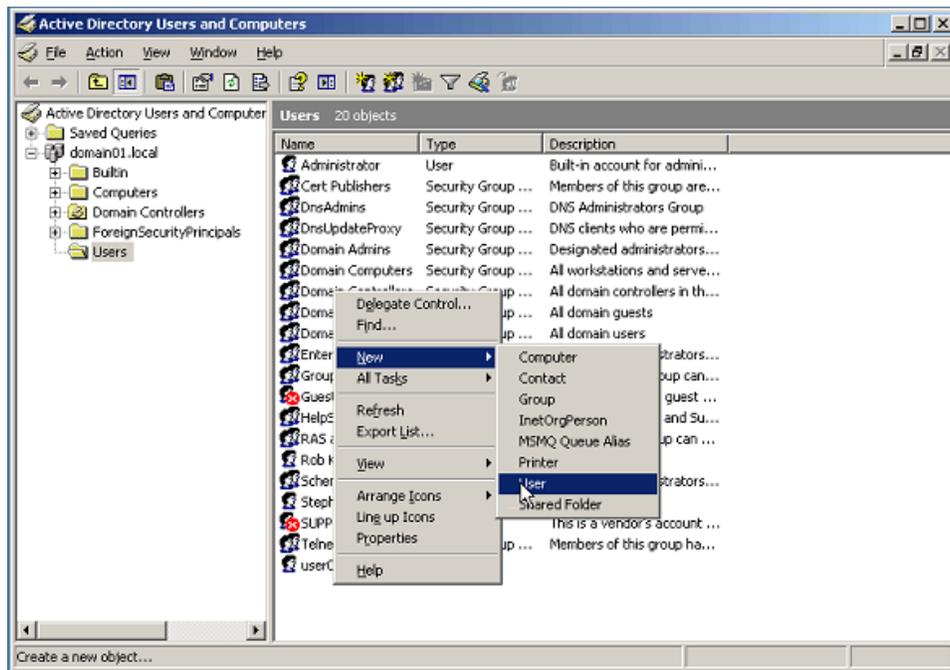
If Logon Manager is already installed and synchronizing with your Active Directory-based repository, Universal Authentication Manager will be sharing Logon Manager's repository container to store its own policies and settings. In such cases, you do not need to extend the schema or enable data storage under user objects. Instead, complete the following steps:

- Complete the steps in [Initializing Universal Authentication Manager Storage](#).
- Complete the steps in [Configuring the Universal Authentication Manager Synchronizer](#).

Creating a Universal Authentication Manager Service Account

In order for Universal Authentication Manager to read and write data in the repository, you must give it the privileges to do so. This is accomplished by creating a service account that Universal Authentication Manager uses to interact with its repository. This account should be a standard domain account (member of Domain Users); no other permissions are necessary.

1. On the workstation that will serve as your domain controller, launch **Active Directory Users and Computers**.
2. Right-click in the Users container and select **New > User**. The User account is a regular member of the Domain Users group.



3. Enter a name for the user or group account (for this example, the name is `uamservice`) and click **Next>**.

New Object - User

Create in: domain01.local/Users

First name: UAM Initials:

Last name: Service

Full name: UAM Service

User logon name: uamservice @domain01.local

User logon name (pre-Windows 2000): DOMAIN1\ uamservice

< Back Next > Cancel

4. Enter a password and check the **Password never expires** box.

Copy Object - User

Create in: domain01.local/Users

Password:

Confirm password:

User must change password at next logon

User cannot change password

Password never expires

Account is disabled

< Back Next > Cancel

Extending the Schema



If you are not sure whether you have already extended the schema, simply complete the steps below; performing the schema extension multiple times will not harm your repository or the data it contains.

1. Launch the Oracle Enterprise Single Sign-On Administrative Console.
2. From the **Repository** menu, select **Extend Schema**.



3. In the **Connect to Repository** dialog box, enter a **Server Name** (for this example, the name is DC01), select **Microsoft Active Directory Server** from the drop-down menu, select the **Use secure channel (SSL)** check box if your environment is configured for SSL connectivity, enter the **Port** number (this example uses port 389), and the **Username/ID** and **Password** of an administrative account with Domain and Schema Administrator permissions. Click **OK** when finished.



Enabling Data Storage Under User Objects

After extending the schema, you must allow Universal Authentication Manager to store enrollment data under each respective user's user object within the repository. To do so, complete the following steps:



If Logon Manager is already installed and synchronizing with your repository, you do not need to enable this option, as it is already enabled; proceed to the next section.

1. In the left-hand tree, right-click the **Repository** node and select **Connect To...** from the context menu.
2. In the **Connect to Repository** dialog box, enter a **Server Name** (for this example, the name is DC01), select **Microsoft Active Directory Server** from the drop-down menu, select the **Use secure channel (SSL)** check box if your environment is configured for

SSL connectivity, enter the **Port** number (this example uses port 389), and the **Username/ID** and **Password** of an administrative account with Domain and Schema Administrator permissions. Click **OK** when finished.

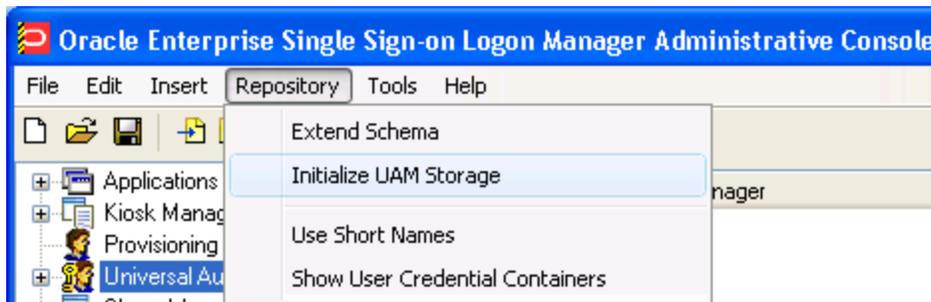


3.

4. From the **Repository** menu, select **Enable Storing Credentials Under User Object**.
5. In the prompt that appears, click **OK**.
6. In the confirmation dialog that appears, click **OK** to dismiss it.

Initializing Universal Authentication Manager Storage

1. After successfully extending the schema, return to the Repository menu and select **Initialize UAM Storage**.

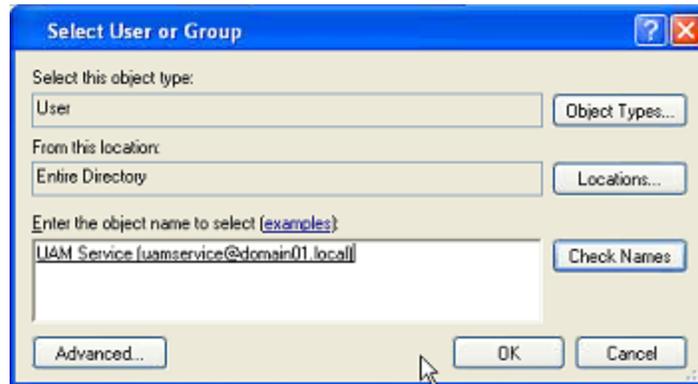


2. From the drop-down menu, select the server that you just created. The other fields are filled in automatically.



3. Click **OK**.

- In the Select User or Group window, start typing the name of your service account, then click **Check Names**. The service account name is filled in automatically.



- Click **OK** and wait for the success message.



The data structures have now been created and the required permissions set. For more information on what's done in the repository during this step, see the next section.

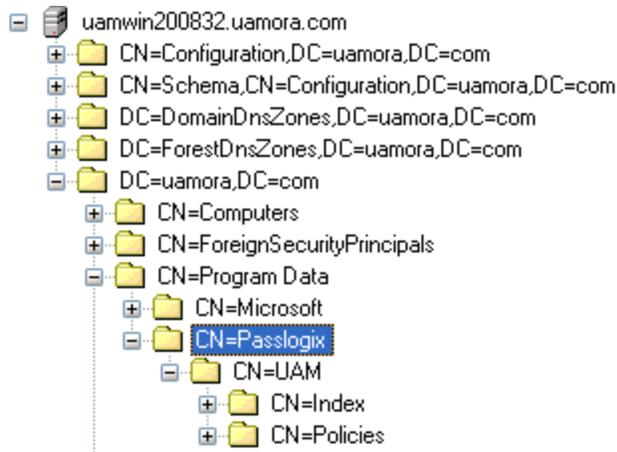


Once the Universal Authentication Manager service account has been created, it can also be configured manually or automatically on multiple end-user machines using the command-line tool `DeployTool.exe`. For more information, see the *Oracle Enterprise Single Sign-On Universal Authentication Manager Administrator's Guide*.

About The Universal Authentication Manager Repository Data Structures and Permissions

When you invoke the **Initialize UAM Storage** command described earlier, Universal Authentication Manager does the following within your repository:

- Modifies the schema to ensure that `vgoUser` and `vgoConfig` classes may be placed inside Container objects.
- Builds the default container structure "Program Data/Passlogix/UAM" with subcontainers "Policies" and "Index" as shown below:



Never manually modify the contents of the index and policies containers.

The containers can be named differently if your environment requires so; however, you will need to manually configure all Universal Authentication Manager client instances to point to the custom-named containers. Oracle highly recommends you leave the container names at their defaults.

3. Grants the Universal Authentication Manager service account generic read, write, modify, and delete permissions to the index container (as well as all other permissions inherited from its parent) so that the Universal Authentication Manager service can read, create, modify, and delete objects in the index container.
4. Grants the Universal Authentication Manager service account generic read permissions (as well as any permissions inherited from its parent) so that the Universal Authentication Manager service can read objects within the policies container.
5. Updates the domain root DSE object to grant the Universal Authentication Manager service account permissions to create and delete vgoConfig and vGoUser objects under User objects across the entire domain. (If the user objects have been relocated to a custom location, the permissions can be set directly at the target container instead of at the root.)
6. Updates the domain root DSE object to grant the Universal Authentication Manager service account generic read permissions to all vgoConfig objects across the domain so that the Universal Authentication Manager service can read all vgoConfig objects regardless of their location in the repository.

Configuring the Universal Authentication Manager Synchronizer

You are now ready to configure the Universal Authentication Manager to allow Universal Authentication Manager to synchronize with the repository. Complete the following steps:

1. Launch the Oracle Enterprise Single Sign-On Administrative Console.
2. In the left-hand tree navigate to **Global Agent Settings** > **[TargetSettingsSet>]** > **Synchronization**.
3. If Logon Manager is not installed and synchronizing with the repository, add a configuration node for the Active Directory synchronizer to your settings set as follows (otherwise skip to the next step):

- a. Right-click the **Synchronization** node and select **Manage** synchronizers from the context menu.
 - b. In the window that appears, click **Add**.
 - c. In the list of available synchronizers, select **Active Directory**, enter **ADEXT** as the name, and click **OK**.
 - d. Click **OK** to dismiss the dialog. The **ADEXT** node appears under the **Synchronization** node.
4. Do one of the following:
- If Logon Manager is installed and synchronizing with the repository, do not modify the value of the **Base location(s) for configuration objects** field; instead, skip to the next step.
 - If Logon Manager is *not* installed and synchronizing with the repository, do the following in the **Base location(s) for configuration objects** field:
 - i. Select the check box.
 - ii. Click the ... button.
 - iii. In the window that appears, enter the fully qualified DN of the Universal Authentication Managerpolicies container.
 - iv. Click **OK**.
5. In the **Base location(s) for UAM storage index** field, select the check box, click the ... button, and enter the fully qualified DN of the Universal Authentication Manager index container, then click **OK**.
6. If it is not already set, select the check box next to the **Location to store user credentials** option and select **Under respective directory user objects** from the drop-down list.
7. Configure other synchronization settings as desired; for more information on each setting, see the Console help.
8. Export your settings to a .REG file for distribution to end-user workstations:
- a. From the **File** menu, select **Export**.
 - b. In the dialog that appears, click **HKLM Registry Format**.
 - c. In the "Save" dialog that appears, navigate to the desired location and provide a name for the .REG file, then click **Save**.
9. Distribute the .REG file to your Universal Authentication Manager workstations and merge it into their Windows registries.

Configuring Universal Authentication Manager Synchronization for Administrative Users

The rights necessary to store credentials under user objects are granted at the tree root and inherited down to user objects. If you are deploying Universal Authentication Manager in enterprise mode in an environment where members of protected user groups, such as Administrators, will be using it, you must grant the Universal Authentication Manager service account through the AdminSDHolder object the permissions necessary to create and delete vGOUUserData and vGOSecret objects.



If Logon Manager is already installed and synchronizing with the same repository that Universal Authentication Manager is utilizing, you will also need to grant these permissions to the AdminSDHolder object itself, which was most likely done during Logon Manager deployment. This granting will appear as "SELF" in the affected administrative user's permissions list, as well as in the AdminSDHolder object's permissions list.

Without this explicit permission application, administrative users will be blocked from storing their Universal Authentication Manager data in the repository due to automatic inheritance of restrictive rights from the AdminSDHolder object. This is because the object's ACL, which governs the ACLs of all protected groups, prohibits rights inheritance by default. More information about this issue is available in the following MS Knowledge Base article:

<http://support.microsoft.com/kb/817433>.

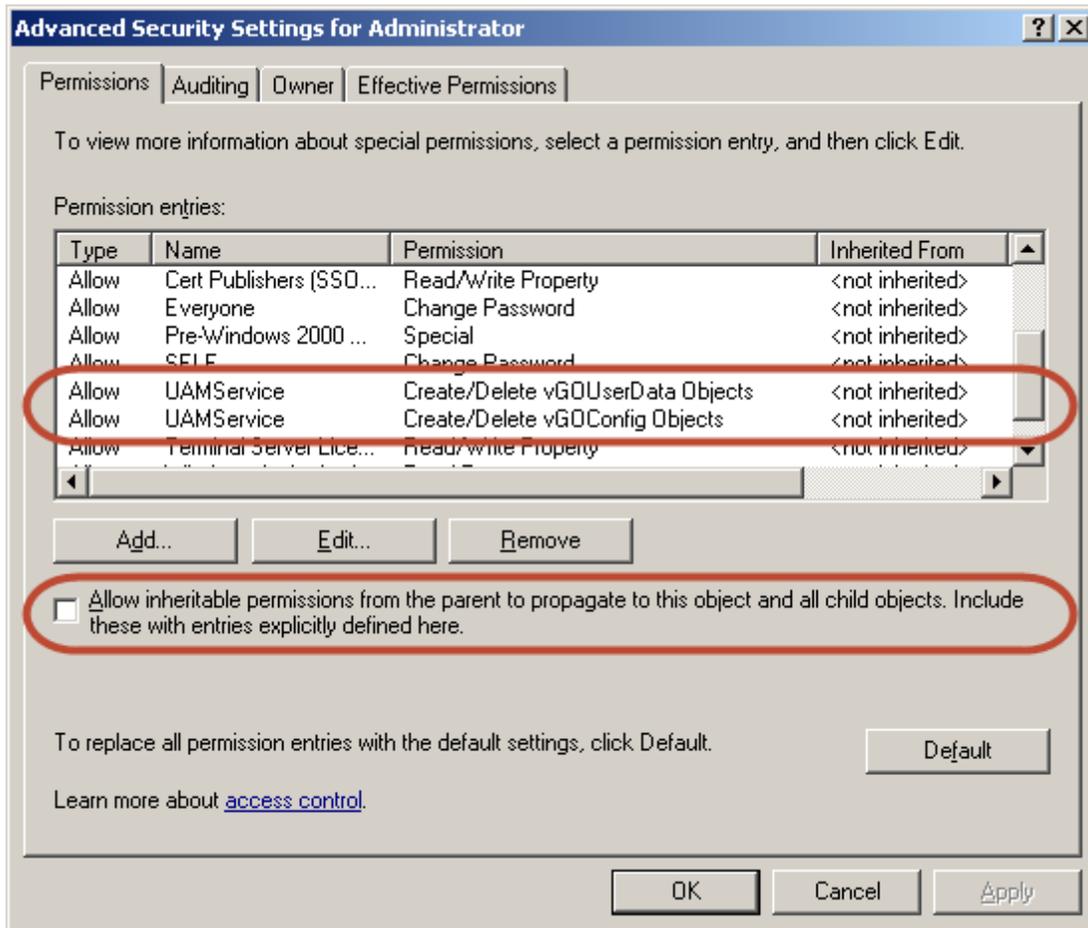
The following protected user groups are known to be affected by this problem:

- Enterprise Admins
- Schema Admins
- Domain Admins
- Administrators
- Account Operators
- Server Operators
- Print Operators
- Backup Operators
- Cert Publishers

To verify that you are experiencing this particular issue, do the following:

1. Log in to the primary domain controller as a domain administrator.
2. Open the "Active Directory Users and Computers" MMC snap-in.
3. From the **View** menu, select **Advanced Features**.
4. Navigate to the affected user object, right-click it, and select **Properties**.
5. In the dialog that appears, select the **Security** tab.

6. Click **Advanced**. The “Advanced Security Settings” dialog appears:



7. In the dialog, check whether:
- **The Allow inheritable permissions...** check box is not selected.
 - The permissions highlighted in the figure in step 6 are not present in the list.

If the above conditions are true, the user object is not inheriting the necessary permissions from the directory root.

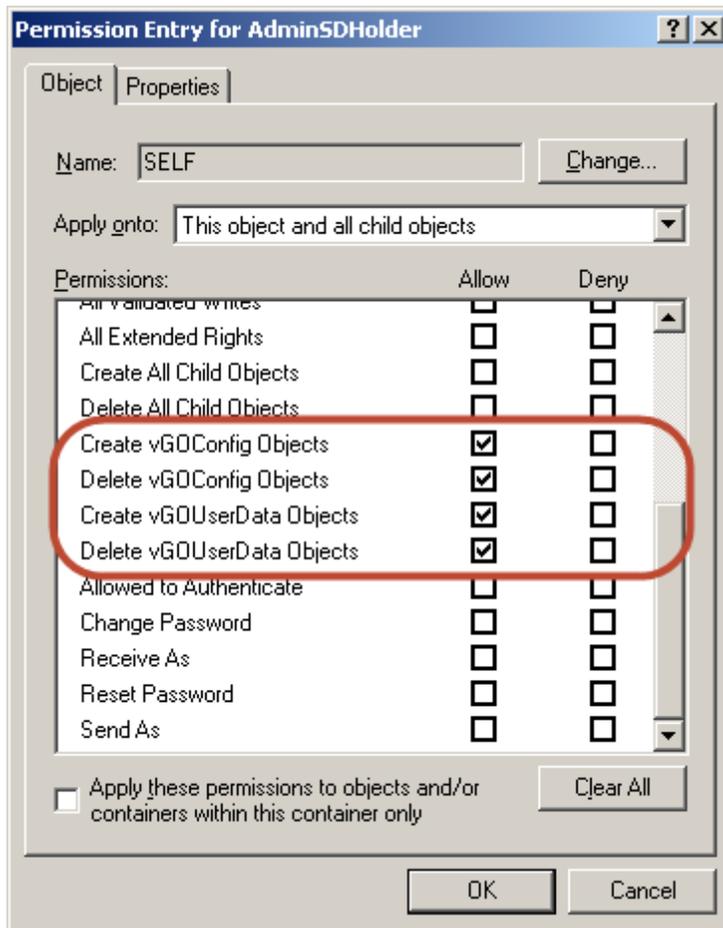
To rectify this issue, you must manually modify the ACL of the AdminSDHolder object to grant the right to create objects of type vGOConfig and vGOUserData. The steps are as follows:

1. Log in to the primary domain controller as a domain administrator.
2. In the Microsoft Management Console, open the "Active Directory Users and Computers" snap-in.
3. From the **View** menu, select **Advanced Features**.
4. Navigate to the **AdminSDHolder** container located in `cn=AdminSDHolder,cn=System,dc=<domainName>,dc=<domainSuffix>`
5. Right-click the **AdminSDHolder** container and select **Properties**.
6. In the "Properties" dialog, select the **Security** tab and click **Advanced**.
7. In the "Advanced Security Settings" dialog, click **Add...** .

8. In the "Select User, Computer, or Group" dialog, enter the name of the Universal Authentication Managerservice account and click **OK**.
9. In the "Permission Entry" dialog, do the following:
 - a. From the **Apply onto:** drop-down list, select **This object and all child objects**.

 If the create and delete permissions for vGOUserData objects do not appear in the permissions list, select **User objects** from the **Apply onto:** drop-down list instead. This variation occurs between different versions and patches of Active Directory and the underlying operating system.

- b. In the list of permissions, select the **Allow** check box for the permissions shown below:



- c. Click **OK**.
10. Trigger the SD propagator (SDPROP) process to immediately propagate the changes throughout the network. Instructions for launching the SD propagator process are provided in the following Microsoft Knowledge Base article: <http://support.microsoft.com/kb/251343>.

 If you encounter a version of this procedure that calls to apply the above permissions onto "**This object only**," disregard it. It is deprecated and has been superseded by the steps above.

If you are running Windows Server 2008 R2, you can trigger the SD propagator process by kicking off the RunProtectAdminGroupsTask task.

Upgrading an Existing Universal Authentication Manager Installation

Upgrading from earlier versions of Universal Authentication Manager is not supported. You must fully uninstall any old versions of Universal Authentication Manager before installing the current version. The new version will ignore all repository data stored by any earlier versions, thus deletion of the old data is not required.

Migrating from Logon Manager with Strong Authenticators to Universal Authentication Manager

Each client workstation with Logon Manager may only be configured to use one primary logon method. Logon Manager supports several native primary logon methods, including strong authenticators such as smart cards or proximity cards. If a strong authenticator is deployed and configured as the Logon Manager primary logon method, each end user must convert to using Universal Authentication Manager as the primary logon method.

End users must manually change the Logon Manager Primary Logon Method from the strong authenticator to the Universal Authentication Manager Authenticator using the Logon Manager Agent Settings tab to Change Primary Logon Method.

Installing the Universal Authentication Manager Client-Side Software



Oracle recommends that you install any hardware devices, middleware, and drivers prior to installing Universal Authentication Manager.

Installing Universal Authentication Manager requires you to have local administrator permissions.

Oracle recommends against installing Universal Authentication Manager on the same workstation as the Oracle Enterprise Single Sign-On Administrative Console to avoid lockout. You should have at least one workstation running the Oracle Enterprise Single Sign-On Administrative Console without Universal Authentication Manager.

If you want to perform an unattended ("silent") installation, see [Performing an Unattended \(Silent\) Installation of Universal Authentication Manager](#).

During the installation, you will be prompted to select a client mode (local or enterprise). For more information on the Universal Authentication Manager client modes, see the *Universal Authentication Manager Administrator's Guide*.

If you are installing Universal Authentication Manager on Windows 7, the Microsoft Windows Password and PKI smart card credential providers will be disabled and the Universal Authentication Manager credential provider will be enabled in their place.

To install and configure Universal Authentication Manager:

1. Close all programs.
2. Launch the **ESSO-UAM.msi** installer file.



If you are installing in a language other than English and would like to launch the installer in the desired language, execute the following command:

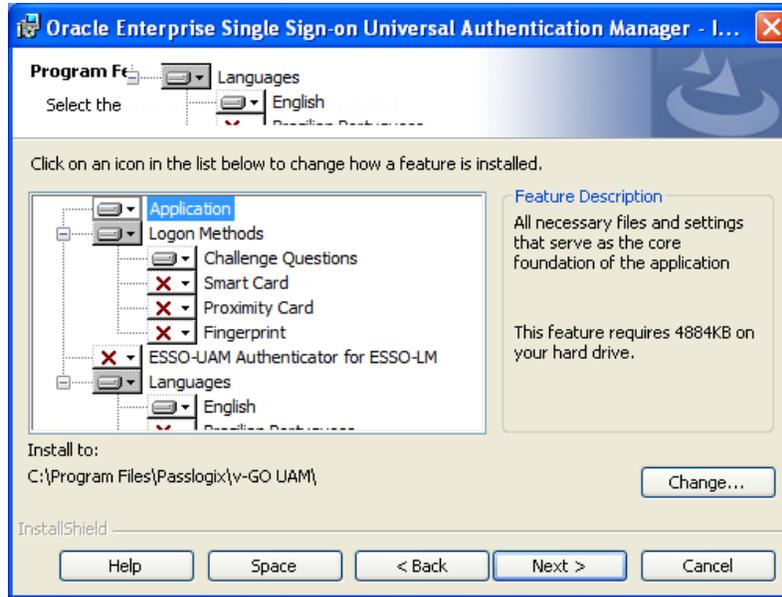
```
msiexec /I <packagename>.msi TRANSFORMS=<language>.mst
```

where <packagename> is the name of the Universal Authentication Manager installer MSI package, and <language>.mst is the name of the corresponding language transform file (included in the installer archive).

3. On the Welcome Panel, click **Next>**.



- The Program Features dialog box prompts you to select the features to install. Select the features you want by clicking the red [X] next to the feature and clicking **This feature will be installed on local hard drive**. You must select at least one Logon Method to proceed with the installation.



Application	
<p><i>(requires ~4580KB of space)</i> This option installs all necessary files and settings that serve as the core foundation of the application.</p>	

Logon Methods	
<p><i>(requires ~215KB of space, ~1253KB including subfeatures)</i> The logon methods are plug-ins supported by Universal Authentication Manager. Select the logon methods that you intend to use.</p> <p>The available plug-ins are:</p> <ul style="list-style-type: none"> • Challenge Questions • Smart Card • Proximity Card • Fingerprint <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> To avoid performance issues and potential conflicts, the recommended best practice is to install only the logon methods you intend to use. </div>	

Universal Authentication Manager Authenticator for Logon Manager

(requires ~105KB of space)

The Universal Authentication Manager Authenticator plug-in integrates Universal Authentication Manager with Logon Manager. If Logon Manager is installed after Universal Authentication Manager, you can Modify the Universal Authentication Manager installation to install the Universal Authentication Manager Authenticator.



The Universal Authentication Manager Authenticator option is only available if you already have the Logon Manager Agent installed on the workstation.

ESSO-UAM Authenticator for ESSO-LM

Languages

The localized language support packages that allow the Agent to be displayed in the following languages:

- English (mandatory, installed by default)
- Chinese (Simplified)
- Chinese (Traditional)
- Czech
- Danish
- Dutch
- Finnish
- French
- German
- Greek
- Hungarian
- Italian
- Japanese
- Korean
- Norwegian
- Polish
- Portugese (Brazil)
- Portugese (Portugal)
- Romanian
- Russian
- Slovak
- Spanish
- Swedish
- Thai
- Turkish

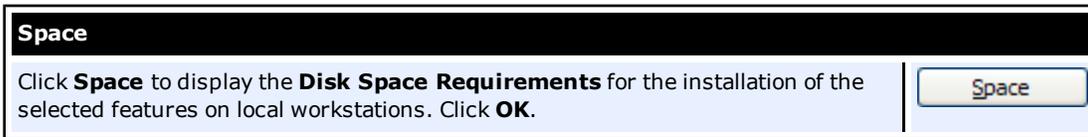
Languages

<input type="checkbox"/>	English
<input checked="" type="checkbox"/>	Chinese (Simplified)
<input checked="" type="checkbox"/>	Chinese (Traditional)
<input checked="" type="checkbox"/>	Czech
<input checked="" type="checkbox"/>	Danish
<input checked="" type="checkbox"/>	Dutch
<input checked="" type="checkbox"/>	Finnish
<input checked="" type="checkbox"/>	French
<input checked="" type="checkbox"/>	German
<input checked="" type="checkbox"/>	Greek
<input checked="" type="checkbox"/>	Hungarian
<input checked="" type="checkbox"/>	Italian
<input checked="" type="checkbox"/>	Japanese
<input checked="" type="checkbox"/>	Korean
<input checked="" type="checkbox"/>	Norwegian
<input checked="" type="checkbox"/>	Polish
<input checked="" type="checkbox"/>	Portugese (Brazil)
<input checked="" type="checkbox"/>	Portugese (Portugal)
<input checked="" type="checkbox"/>	Romanian
<input checked="" type="checkbox"/>	Russian
<input checked="" type="checkbox"/>	Slovak
<input checked="" type="checkbox"/>	Spanish
<input checked="" type="checkbox"/>	Swedish
<input checked="" type="checkbox"/>	Thai
<input checked="" type="checkbox"/>	Turkish

Change

Click this button to change the current installation destination folder for the Client. Browse to the location and click **OK**.

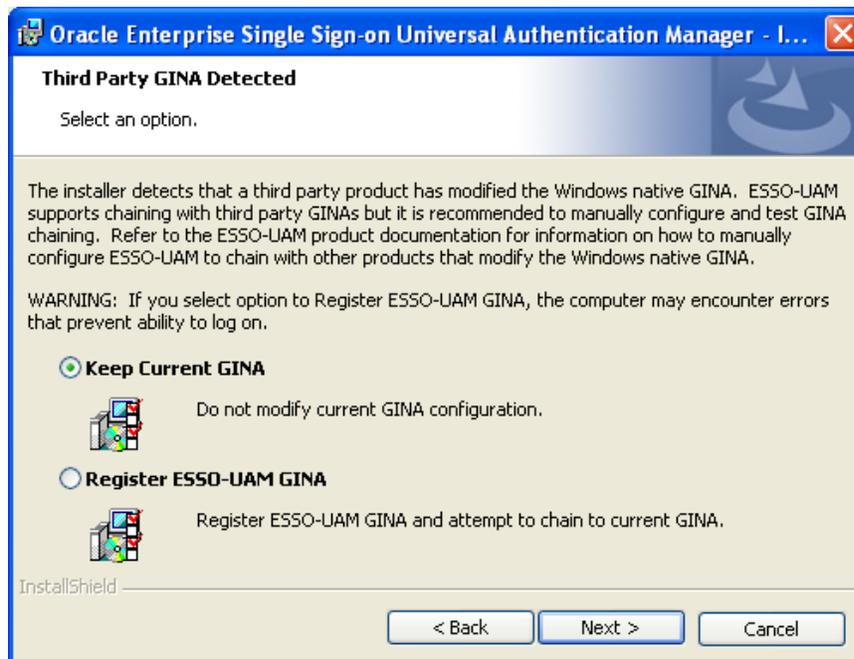
Change...



6. Select the desired client mode. (For more information on the client modes, see the *Universal Authentication Manager Administrator's Guide*.)
 - **Local Client Mode.** Universal Authentication Manager runs locally and does not synchronize with the repository.
 - **Enterprise Client Mode.** Universal Authentication Manager runs in an Enterprise environment and synchronizes with the repository.



7. If the installer detects a third-party GINA, it prompts you to choose between keeping the current GINA and registering the Universal Authentication Manager GINA. Oracle recommends that, if you choose to chain the GINAs, you verify in a test environment that the configuration is stable. See [Selecting the Desired GINA Library](#) for more information.



8. If you selected to install the Universal Authentication Manager Authenticator for Logon Manager in step 4, the installer proceeds with the next step, depending on whether or not Logon Manager is detected with any strong authenticators installed. The Universal Authentication Manager Authenticator for Logon Manager allows for integration with Logon Manager.

Logon Manager installed with Strong Authenticators

When the installer detects that Logon Manager is installed along with at least one strong authenticator and the Universal Authentication Manager Authenticator custom setup option has been enabled for installation, the installer will not ask if you want to configure Universal Authentication Manager as the Logon Manager primary logon method.

Logon Manager installed without Strong Authenticators

When the installer detects that Logon Manager is installed without any strong authenticators and the Universal Authentication Manager Authenticator custom setup option has been enabled for installation, the installer will ask if you want to configure Universal Authentication Manager as the Logon Manager primary logon method. If you select to configure Universal Authentication Manager as the Logon Manager primary logon method, **Universal Authentication Manager** will be the only available option in the Primary Logon dropdown of Logon Manager First-Time Use (FTU) Wizard. For more information on the FTU Wizard, see the *Oracle Enterprise Single Sign-On Suite Plus User Guide*.

Make your selection and click **Next**.



9. The InstallShield Wizard is ready to begin the installation. Click **Install**.



10. Wait for the installation to complete. When the Completed screen appears, click **Finish**.



11. After installation is complete, you may be prompted to restart the machine.
 - If you installed the Client in Local Mode, click **Yes** now.
 - If you installed the Client in Enterprise Mode, click **No** and proceed to [Completing the Installation of Universal Authentication Manager](#) to configure the required service accounts.

Performing an Unattended (Silent) Installation

In order to install Oracle Enterprise Single Sign-On products successfully in unattended ("silent") mode, the Windows Management Instrumentation (WMI) service must be running before you execute the installer. To check whether it is running and start if it is not, see [Prerequisites for Unattended \("Silent"\) Installations](#).

Command Line Syntax

Universal Authentication Manager supports standard MSIEXEC.exe command line parameters. The command line to perform an unattended installation uses the following sequence:

```
MSIEXEC.exe [Install Flag] [MSI Installer Filename] [Custom Properties]  
[User Interface Level Flag]
```

Where:

Install Flag. /i = install, /x = uninstall, /a = admin install

Filename. Name of the MSI package to install

Custom Universal Authentication Manager Installer Properties

The custom installer includes the ability to configure the following options:

- Option to select local (default) or enterprise mode
- Option to configure Logon Manager to use Universal Authentication Manager as its Primary Logon Method
- Ability to select which GINA to use
- Ability to configure custom features to install
- Ability to install in the desired language

Use the following custom parameters to configure these installer options:

- **CLIENTMODE**
 - 0 = Local Client Mode (default)
 - 1 = Enterprise Client Mode
- **SSO_LOGONMETHOD**
 - Yes = Configure Universal Authentication Manager as the Logon Manager Primary Logon Method
 - No = Do not configure Universal Authentication Manager as the only available Logon Manager Primary Logon Method (default)
- **GINACHOICE** (Windows XP only)
 - 0 = Keep the current GINA (default)
 - 1 = Register Universal Authentication Manager GINA
- **ADDLOCAL**
 - "Application" (*Required*)
 - "SmartCard"
 - "ProximityCard"
 - "Fingerprint"
 - "ChallengeQuestions"

- "UAMAuth"

To configure which features are installed, use the standard "ADDLOCAL" command line option.



Do NOT use the ADDLOCAL property with ORCA, which is command-line only.

Installable Language Packs (English is always installed)

- English
- Brazilian Portuguese
- French
- German
- Italian
- Japanese
- Korean
- Simplified Chinese
- Spanish
- Czech
- Finnish
- Dutch
- Polish
- Portuguese
- Traditional Chinese
- Danish
- Greek
- Hungarian
- Norwegian
- Romanian
- Russian
- Slovak
- Swedish
- Turkish
- Thai

Examples

- `msiexec /i "ESSO-UAM.msi" ADDLOCAL
="Application,SmartCard,ProximityCard,German,Norwegian,Turkish"
CLIENTMODE=1 GINACHOICE=1`

Installs Universal Authentication Manager with Smart Card and Proximity Card, in enterprise mode, using the Universal Authentication Manager GINA, with the German, Norwegian, and Turkish language packs.

- `msiexec /qn /i "ESSO-UAM.msi" ADDLOCAL ="Application,SmartCard"
CLIENTMODE=0 GINACHOICE=0`

Installs Universal Authentication Manager with Smart Card only, in Local Client mode, and using the default GINA.

- `msiexec /qn /i "ESSO-UAM.msi" ADDLOCAL ="Application,Fingerprint"
CLIENTMODE=0`

Installs Universal Authentication Manager with Fingerprint only, in Local Client mode.

- `msiexec /i "ESSO-UAM.msi"
ADDLOCAL="Application,ChallengeQuestions,ProximityCard,SmartCard,Fingerprint"
CLIENTMODE=1 GINACHOICE=0`

Installs Universal Authentication Manager with Challenge Questions, Proximity Card, Smart Card, and Fingerprint, in Enterprise Client mode, using the default GINA.

Completing the Installation of Universal Authentication Manager

You must complete the tasks listed below in order to successfully configure Universal Authentication Manager.

- [Configuring the Universal Authentication Manager Service Account](#)
- [First-Time Logon for Enterprise Mode Users](#)
- [Selecting the Desired GINA Library](#)

Configuring the Universal Authentication Manager Service Account

When running the Client in Enterprise mode, you must follow the instructions in this section to configure each Universal Authentication Manager client so that they will be able to synchronize with an Enterprise repository.



Some steps in this section need to only be performed once. Other steps must be performed every time Universal Authentication Manager is installed or upgraded.

Step 1: Grant the Service Account Local Administrator Privileges

The Universal Authentication Manager service account must be a Local Administrator on each client system. This step only needs to be done once per client, and should be done immediately after the client has been installed. These steps can be done before or after rebooting the system. You can add the Universal Authentication Manager Service Account to the local Administrators group on each workstation. Complete the following steps:

1. Click **Start** > **Run** > and type **compmgmt.msc** and click **OK**. The Computer Management console opens.
2. Expand **Systems Tools** and then expand **Local Users and Groups** and click **Groups**.
3. In the right pane, right-click on **Administrators** and select **Add to Group...**
4. Click **Add**. Enter the username of the Universal Authentication Manager service account that you created, and click **OK**.

Step 2: Configure the Service

You must configure the Universal Authentication Manager authentication service to run under the Universal Authentication Manager service account, and to automatically grant the account the Log On As Service local privilege. This step must be performed after every Universal Authentication Manager installation.

Complete the following steps:

1. Click **Start** > **Run** > and type **services.msc** and click **OK**. The Services console opens.
2. Double-click the **ESSO-UAM Authentication Service**. The **Properties** dialog will open.
3. On the Log On tab, select **This account**. Enter the name of the Universal Authentication Manager service account into the **This account** field, then enter and confirm the password.
4. Click **Apply**. The first time this step is done, you will receive a message that the **Log On As Service** right has been granted.

Step 3: Restart the Service

Restart the service to verify the new settings are working and the **ESSO-UAM Authentication Service** can start. If the service cannot start, you can try to revert to the Local System, restart the service, review and correct the settings, and try again.

To restart the service, right-click the service and click **Restart**.



Do not leave the service in a stopped state. If the service is left in a stopped state, users may not be able to log on.

Reverting Your Changes After Uninstalling Universal Authentication Manager

To undo these steps and return to a clean system:

1. Uninstall Universal Authentication Manager or set the **ESSO-UAM Authentication Service** back to Local System and restart.
2. Click **Start > Run >** and type **compmgmt.msc** and click **OK**. The Computer Management console opens.
3. Expand **Systems Tools** and then expand **Local Users and Groups** and click **Groups**.
4. In the right pane, right-click on **Administrators** and select **Add to Group...**
5. Highlight the service user name and click **Remove**.
6. Click **Start > Run >** and type **secpol.msc** and click **OK**.
The Local Security Policy console appears.
7. Double-click the Universal Authentication Manager service account.
The **Properties** dialog appears.
8. Expand **Local Policies** and expand **User Rights Assignment**.
9. Double-click the **Log on as a Service** policy.
10. Select the Universal Authentication Manager service account and click **Remove**.

First-Time Logon for Enterprise Mode Users

It is recommended that you require Enterprise Mode users to perform their first-time logon in connected mode. If the workstation is not connected to the Active Directory Domain Controller, users will be able to log on but not enroll, because Windows cannot resolve the username while disconnected.

If users perform a first-time logon in disconnected mode, they might receive the following message when attempting to access to the Client application: "You cannot enroll in Universal Authentication Manager until you log on to Windows with the computer connected to the Windows network."

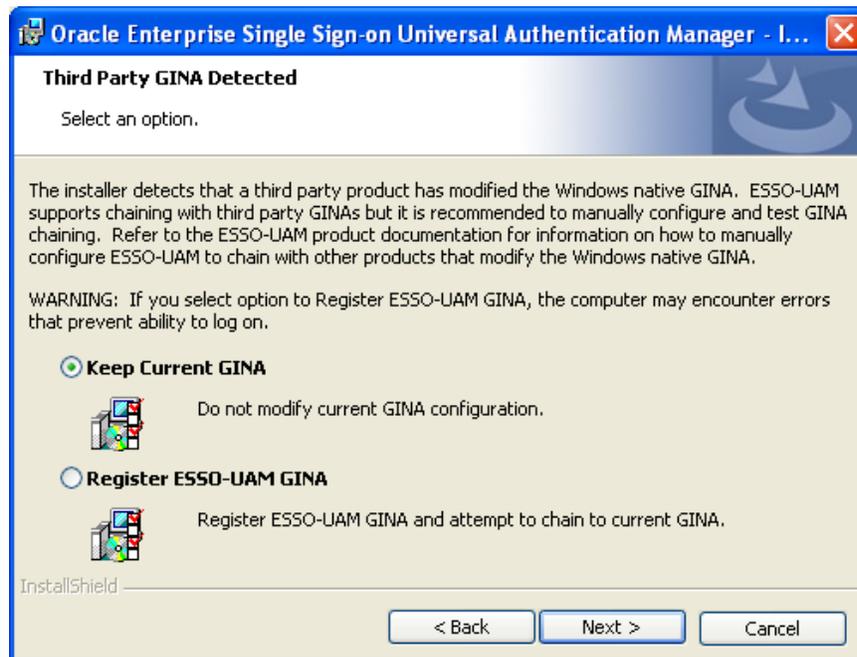
Selecting the Desired GINA Library (Windows XP Only)

On Windows XP systems, the Universal Authentication Manager GINA automatically chains with the Logon Manager/Password Reset GINA and with the Microsoft GINA.

During installation or when performing maintenance, the Universal Authentication Manager installer resolves the GINA chain according to the following logic:

- If the current GINA is MSGINA, Universal Authentication Manager will automatically chain to it.
- If the current GINA is SSOGINA (used by Logon Manager and Password Reset), Universal Authentication Manager configures SSOGINA to chain to UAMGINA, which then chains to MSGINA.
- If the installer detects an unknown GINA, which was installed by a third-party product, it displays the "Third Party GINA Detected" screen, and prompts the administrator to choose between keeping the existing GINA configuration (default) or having Universal Authentication Manager attempt to register and chain with the third party GINA.

 Using the third-party GINA will limit the functionality of the Universal Authentication Manager GINA to varying degrees, depending on the specific GINA. Oracle recommends replacing the third-party GINA with the Universal Authentication Manager GINA.



 It is possible that choosing to chain the Universal Authentication Manager GINA with an unsupported GINA might result in an unrecoverable error. If you choose to attempt chaining to an unsupported GINA, be sure to verify that it will work by trying it in a test environment beforehand.

Recovering from Use of an Incompatible GINA (Windows XP Only)

On Windows XP systems, if the Universal Authentication Manager installer detects an unsupported GINA, it presents you with the following choices:

- Keep the current GINA
- Register Universal Authentication Manager GINA

If you opt to register the Universal Authentication Manager GINA, Universal Authentication Manager attempts to register UAMGINA and chain it to the unsupported GINA. If the third-party GINA is incompatible with UAMGINA, upon restart you might be unable to log on. In order to regain control of your workstation, perform the following steps to modify the registry manually:

1. Restart workstation, boot in Safe Mode and log on as a local administrator.

 Do not restart in Safe Mode with Networking or Safe Mode with Command Line. Refer to Microsoft documentation for more information about restarting your workstation in the different Safe Modes.

2. Click **Start** > **Run** > and type **regedit.exe** and click **OK** to launch the Registry Editor.
3. Select the GINA configuration that you want to use from the following list. If you plan to uninstall Universal Authentication Manager after recovery, deleting the `OrigGinaName` entry will prevent an unintended modification of the `GinaDLL` registry entry.
 - To restore the standard Windows logon:
 - a. Navigate to `HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon` and delete the `GinaDLL` registry entry.
 - b. Restart.
 - To configure for Universal Authentication Manager GINA only:
 - a. Navigate to `HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon` and ensure that the `GinaDLL` registry entry is set to "UamGina.dll."
 - b. Navigate to `HKEY_LOCAL_MACHINE\SOFTWARE\Passlogix\UAM\Gina` and delete any `ChainToGinaName` registry entry.
 - c. Restart.
 - To restore any previously configured third-party GINA:
 - a. Navigate to `HKEY_LOCAL_MACHINE\SOFTWARE\Passlogix\UAM\Gina` and copy the value of any `OrigGinaName` registry entry to `HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon\GinaDLL`, or set `GinaDLL` to the name of the third-party GINA dll.
 - b. Restart.

Installing Anywhere

This section describes the steps necessary for installing Anywhere.

It covers the following topics:

- [Prerequisites for Installing Anywhere](#)
- [Installing the Anywhere Console](#)

After installing Anywhere, please read [Deploying Oracle Enterprise Single Sign-On Suite Plus Components for Offline Use via Anywhere](#).

Prerequisites for Installing Anywhere

Before you install Anywhere, ensure the prerequisites listed in this section have been satisfied.



Please refer to the latest release notes to find out about last-minute requirements or changes that might affect your installation.

Prerequisites for Installing the Anywhere Console

- Anywhere reads the configuration of the other Oracle products from which you will create the Anywhere deployment package. Prior to installing Anywhere, install the products that you intend to deploy. Follow the installation and setup instructions for these products from their respective [installation and setup guides](#). The deployment package must include Logon Manager and might include Oracle Enterprise Single Sign-On Provisioning Gateway (Provisioning Gateway).

Install these products on a clean workstation. If you are deploying Provisioning Gateway, install its Administrative Console on a different workstation.



The Visual C++ Runtime Library and .NET 2.0 Framework are prerequisites for running Anywhere. The installation package includes the Visual C++ Runtime Library, however you must make the .NET 2.0 Framework available to users. See the [Oracle Enterprise Single Sign-On Suite Plus Release Notes](#) for a complete list of software and hardware requirements.

- Configure the Agents as you want the end users to work with them. End users do not have the option to alter the installation. If you want different users to install different packages, create a separate deployment package for each installation.
- There are two types of XML files associated with Anywhere:
 - **The Anywhere configuration XML.** Configures the application itself. This file includes assemblies' dependencies and component files, required permissions, and the location where Anywhere places updates as you create them.
 - **The deployment configuration XML.** Configures the Anywhere deployments that you create. This file includes the target location of the application XML, the version of the application that the Agents will run, and the location (Web page or network file share) where Anywhere checks for updates.

Prerequisites for Unattended ("Silent") Installations

In order to successfully install Logon Manager, Provisioning Gateway Client, and Password Reset Client in unattended ("silent") mode, the Windows Management Instrumentation (WMI) service must be running before the installer is executed.

To check whether the WMI service is running, and start it if necessary, do the following on each target machine:

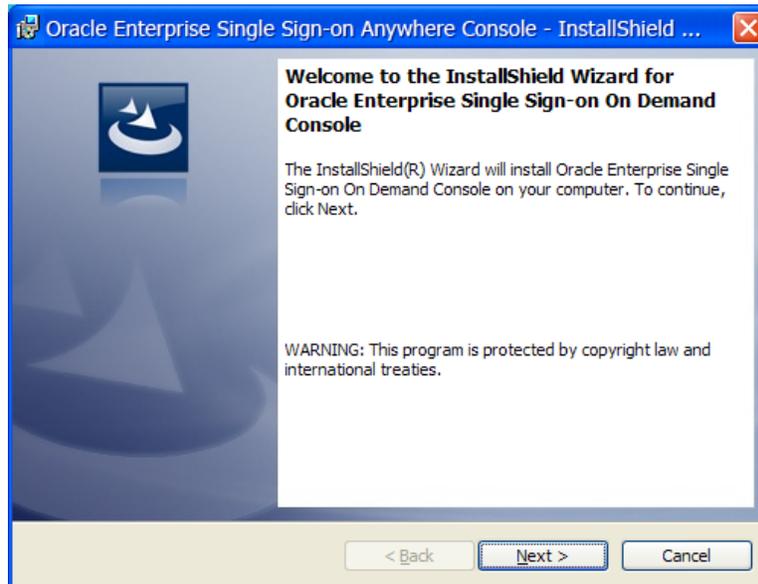
1. Open the System Management Console.
2. Open the **Services** snap-in.
3. Navigate to the **Windows Management Instrumentation** service and check its status and startup mode.
4. Depending on the status, do one of the following:
 - If the status is **Started**, the WMI service is running; proceed to the next section.
 - If the status is blank, check the service's startup type and start it as follows:
 - If the startup type is **Disabled**, do the following:
 1. Double-click the service.
 2. In the dialog box that appears, change the startup type to **Manual** or **Automatic**, as required by your environment.
 3. Click **Apply**.
 4. Click **Start** to start the service. The status changes to **Started**.
 - If the startup type is not **Disabled**, do the following:
 1. Double-click the service.
 2. In the dialog box that appears, Click **Start** to start the service.
 3. The status changes to **Started**.
 4. Click **OK**.
5. Click **OK** to close the service properties dialog box.

Installing the Anywhere Console

Read the sections [Prerequisites for Installing Anywhere Console](#) and [Creating the Deployment Package](#) before proceeding with the Anywhere Console installation.

To install the Anywhere Console:

1. Launch the **ESSO-Anywhere Console.msi** installer file.



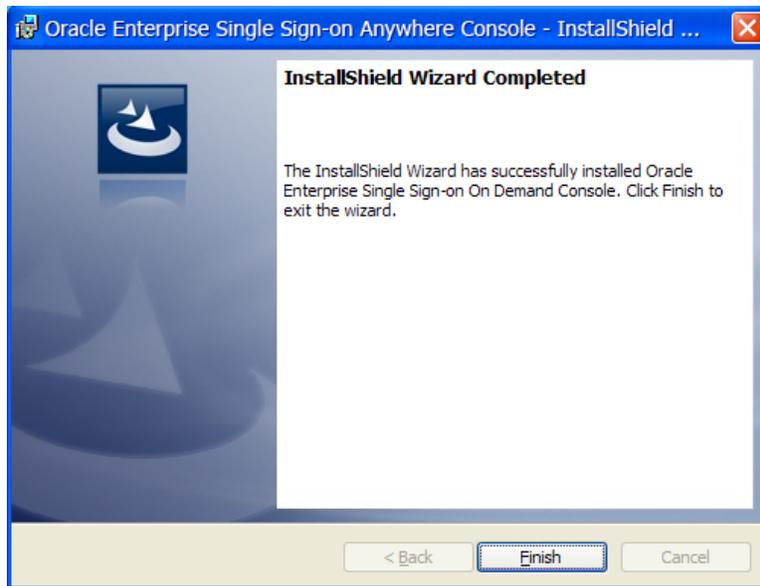
2. Select **Complete** setup. Anywhere does not require any setup customization. Select the **Custom** option only to specify a directory other than the default. Click **Next >**.



3. Click **Install** at the prompt.



4. Click **Finish** when the installation is completed.



See the *Oracle Enterprise Single Sign-On Suite Plus Administrator's Guide* for instructions on creating your deployment package.

Troubleshooting Oracle Enterprise Single Sign-On Suite Plus Installations

This section provides descriptions of most commonly encountered Oracle Enterprise Single Sign-On Suite Plus installation issues and their solutions.

Windows Installer Error 1720

If an error 1720 occurs during the installation of any of the Oracle Enterprise Single Sign-On Suite Plus components software installation, then the currently logged-on user does not have sufficient rights to install software on that machine. You must log on to the machine as a user with Administrator rights or contact your organization's IT support personnel.

Troubleshooting Provisioning Gateway Installations

The following are the most common issues that can be encountered during the installation of Provisioning Gateway, along with their solutions.

Provisioning Gateway Does Not Support File Synchronization

Provisioning Gateway will not function correctly if it is deployed with the file synchronizer.

The Agent is configured to store its user data as a flat file on a network drive, FTP server, NFS share, or local disk drive. Provisioning Gateway will not function in this scenario because it requires a directory in order to distinguish and provision individual user accounts.

Multiple Locators Require an Entlist at Each Locator Site

If two users are stored in different containers, a matching application configuration list (entlist) must exist in each locator site in order for provisioning to work down to the client. The matching entlists must exist under both containers that store the user credentials.

Using Active Directory or ADAM/AD-LDS and IIS Web Services on Different Servers

If IIS and Active Directory (or the ADAM/AD-LDS instance) are on different computers, then you must provide the IIS Web services with a user account that is in the same domain as (or a trusted domain of) Active Directory or ADAM/AD-LDS, and that is provided with read/write access to the directory.

Internet Security Settings (Windows 2003 Users)

The default settings for Windows 2003 Internet Security are more stringent than those for Windows XP. If Internet Explorer Enhanced Security Configuration is enabled (on by default in Windows 2003), you must add the Provisioning Gateway Web Console URL to the workstation's Trusted Sites Internet Zone or the Local Intranet Zone in order to use Provisioning Gateway without issues.

Internet Security Settings (Windows Domain and Citrix MetaFrame® Users)

In order for Windows domain users and Citrix MetaFrame users to access Provisioning Gateway, you must add the Provisioning Gateway Web service to the workstation's Local Intranet zone.

Deploying Provisioning Gateway With Multiple Oracle Internet Directory (OID) Servers

When Provisioning Gateway is deployed with multiple Oracle Internet Directory (OID) servers load-balanced in an active-active (all servers active) topology, Provisioning Gateway cannot resolve the client-server session state due to multiple servers being involved in the session. This will cause Provisioning Gateway to behave erratically. To avoid this issue, do one of the following:

- For simple failover support, load-balance your deployment using an active-standby topology. In this configuration, only one OID server is handling connections from Provisioning Gateway clients at any given moment. Backup servers, synchronized with the active server via replication, are ready to take over if the active server fails. You must configure your network to automatically re-route the connections from the failed server to one of the backup servers when a failure occurs.
- (Recommended) Use the Oracle Real Application Cluster (RAC) technology to create an OID server cluster. A cluster will appear as a single server to Provisioning Gateway clients, while providing the performance and high availability of a fully load-balanced deployment. In case of server failure, operation continues uninterrupted, and servers can be replaced on the fly. Servers can also be added at any time, providing quick and easy scalability.

Troubleshooting Password Reset Installations

Server Error in “/vGOselfServiceReset/ManagementClient” Application

When you install .NET 2.0 on a computer running a newly installed operating system, the Network Service account must be granted read/write access or you will encounter a server error when you access the Password Reset 7.0 Management Console.

To avoid the server error, grant the Network Service account read/write access to the following folder:

C:\Windows\Microsoft.NET\Framework\v2.0.50727\Temporary ASP.NET Files

This is not a Password Reset-specific issue. All ASP.NET applications will receive this error if the configuration is not set correctly.

Group Security Policy: Password History Setting Should Be Increased

Password Reset uses the password history setting of the Windows XP Group Security Policy. You should allow for one additional prior password in addition to the Enforce password history setting. For example, if the setting is 3 (ensuring that a user's last three prior passwords cannot be reused), Password Reset uses one of these, so the actual setting is 2. Oracle recommends a higher setting for Enforce password history for optimal security.

Internet Security Settings (Windows 2003 users)

The default settings for Windows 2003 Internet Security settings are more stringent than those for Windows XP. You must add the Password Reset Web service to the workstation's Trusted Sites Internet zone or the Local Intranet zone in order to use Password Reset as a Windows 2003 client.

Uninstalling Oracle Enterprise Single Sign-On Suite Plus Components

To uninstall one or more Oracle Enterprise Single Sign-On Suite Plus components, do the following:

1. From the **Start** menu, open the **Control Panel**.
2. Depending on your operating system:
 - Open **Add/Remove Programs**.
 - Open **Programs and Features**.
3. In the list of installed software, select the desired component and click **Remove** or **Uninstall**.
4. Confirm any messages that you might receive asking if you are sure you want to remove the program.
5. Follow any additional prompts to complete the uninstallation process.
6. Repeat steps 3 through 5 for each additional component you want to uninstall.

Appendices

This section contains additional information that you might find useful when installing or configuring Oracle Enterprise Single Sign-On Suite Plus components. It contains the following topics:

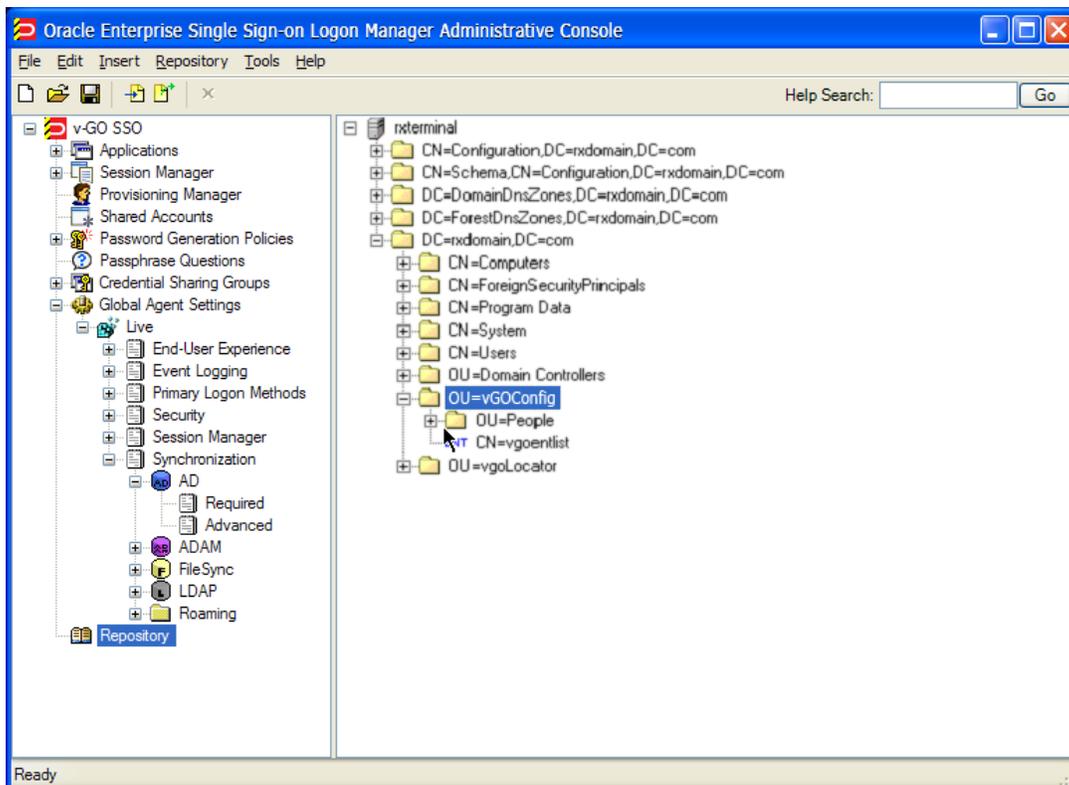
- [Appendix A: Deploying Oracle Enterprise Single Sign-On Suite Plus Components for Offline Use via Oracle Enterprise Single Sign-On Anywhere](#)
- [Appendix B: Packaging Oracle Enterprise Single Sign-On Suite Plus for Mass Deployment](#)
- [Appendix C: Oracle Enterprise Single Sign-On Suite Plus Configuration Reference](#)

Deploying Oracle Enterprise Single Sign-On Suite Plus Products for Offline Use via Anywhere

Anywhere reads the configuration of the other Oracle products from which you will create the Anywhere deployment package.

To create a product configuration file that Anywhere will read:

1. Carefully review the information in [Prerequisites for Installing Anywhere](#).
2. Install the Oracle Enterprise Single Sign-On Administrative Console. For more information on configuring the Oracle Enterprise Single Sign-On Administrative Console, see the [Oracle Enterprise Single Sign-On Administrative Console help](#).
3. Install the Logon Manager Agent.
4. Install the additional Oracle components as required. For more information, see the individual Agent installation and setup sections.
5. Configure the Logon Manager Agent and Provisioning Gateway Agent, if applicable, as you want. See the [Oracle Enterprise Single Sign-On Suite Plus Administrator's Guide](#) and the Agent installation and setup sections for more information.
6. When you have completed your configuration, select **Global Agent Settings > Live > Write to Live HKLM**.
7. When you create the Anywhere deployment, you will have the option to use the Live HKLM settings, or an exported registry file. If you plan to use a registry file, select the set of Global Agent Settings you have configured, right-click, and **Export** to a .REG file. The following graphic depicts a sample configuration.





Oracle recommends that you thoroughly test the registry settings before you export them for inclusion in the package.

If you want to sign your package using a digital certificate, follow the instructions for generating an X.509 certificate in the following MSDN article:

<http://msdn2.microsoft.com/en-us/library/ms819929.aspx>

Packaging Oracle Enterprise Single Sign-On Suite Plus for Mass Deployment

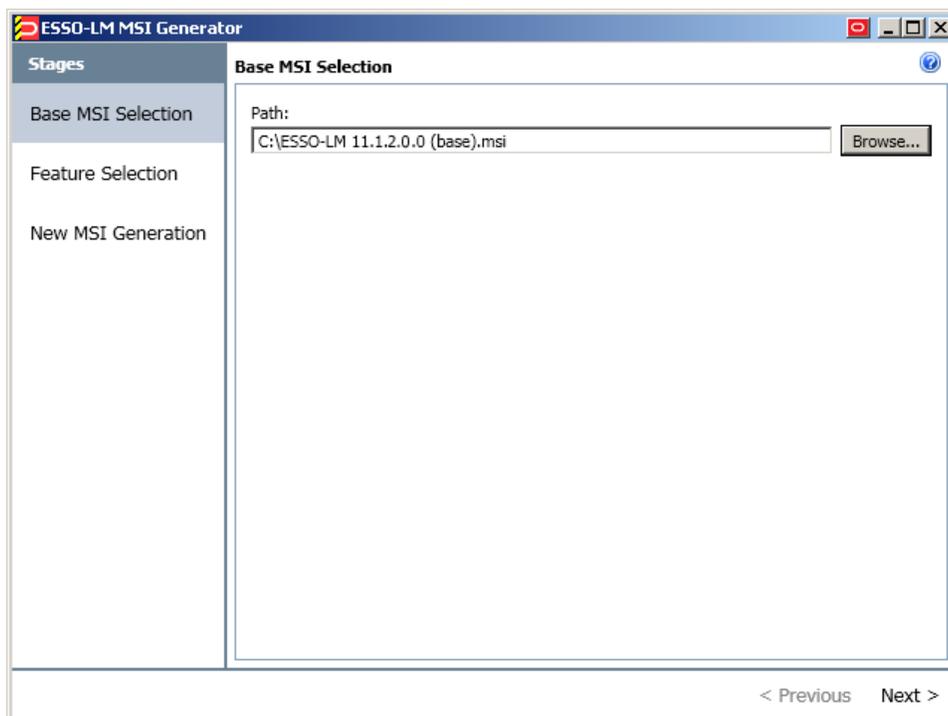
****Verify whether this applies to other components or just LM****

The most convenient way to mass-deploy Oracle Enterprise Single Sign-On Suite Plus is to create a customized MSI package and distribute it to end-user machines using a deployment tool of your choice. An end-user machine that has been configured and tested for production acts as a configuration "master" from which the target Agent configuration will be derived for inclusion in the package. Below is a high-level overview of the required steps. The steps are described in detail later in this guide.

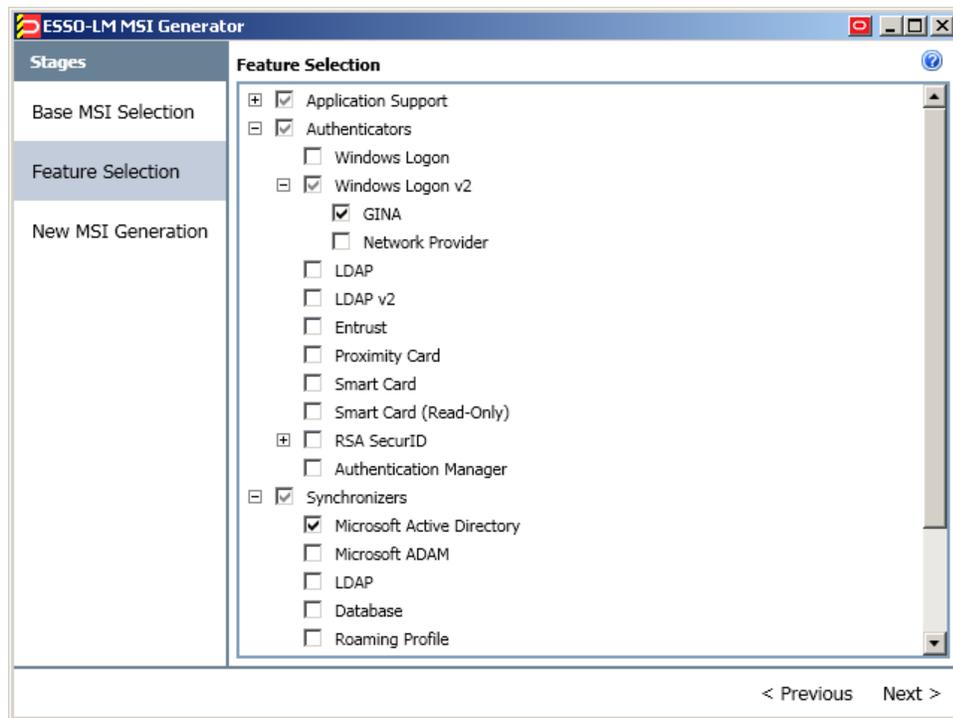
1. Obtain the following:
 - a. The latest installer for the Oracle Enterprise Single Sign-On Suite Plus component(s) you want to deploy.
 - b. The latest versions of the following documents:
 - Installing Oracle Enterprise Single Sign-On Suite Plus(this document)
 - Logon Manager Best Practices: Deploying Logon Manager with [your target repository]
 - Configuring the Logon Manager Agent (**this is being folded into the admin guide; update when confirmed**)
2. If performing an unattended ("silent") installation, complete the steps in Pre-Requisites for Unattended ("Silent") Installations.
3. Install the Logon Manager Agent and the Oracle Enterprise Single Sign-On Administrative Console on the "master" machine.
4. Configure Logon Manager settings using the Console. Make sure you have thoroughly read and understood the Logon Manager Best Practices guides listed above before you begin.
5. Generate the custom MSI package using the Oracle Enterprise Single Sign-On Administrative Console:
 - a. Select the Logon Manager components that you want installed on the end-user machines. (For example, if your environment calls for a single primary logon method, you may want to exclude all but the desired authenticator.)
 - b. Select the customized set of global Logon Manager settings you have configured in step 4.
 - c. Generate the final MSI package. This package will contain the components selected in step 6a and configuration settings from step 4.
 - d. Test the package by deploying it on a pilot group of machines. Identify and correct any issues that may arise. Document the solutions as necessary.
 - e. Once the pilot deployment is successful, deploy the MSI package enterprise-wide using a third-party tool of your choice.

Creating a Customized Agent Installation Package

1. Place the base Logon Manager Agent MSI package in a working directory on the “master” machine.
2. Start the Oracle Enterprise Single Sign-On Administrative Console.
3. Create and configure the desired set of Global Agent settings:
 - a. In the tree in the left-hand pane, right-click the **Global Agent Settings** node and select **Import --> From Live HKLM**.
 - b. When the “Live” settings set appears in the tree, right-click it, select **Rename** from the context menu, give the set a descriptive name, and hit **Enter**.
 - c. Configure Logon Manager as desired. For detailed information on each setting, see the *Oracle Enterprise Single Sign-On Suite Plus Administrator's Guide*.
4. Create the customized MSI package for deployment to end-user machines:
 - a. From the **Tools** menu, select **Generate Customized MSI**.
 - b. In the “Logon Manager MSI Generator” wizard that appears, do the following:
 - i. In the “Base MSI Selection” screen, click **Browse** and navigate to the Logon Manager Agent base MSI package, then click **Next**.

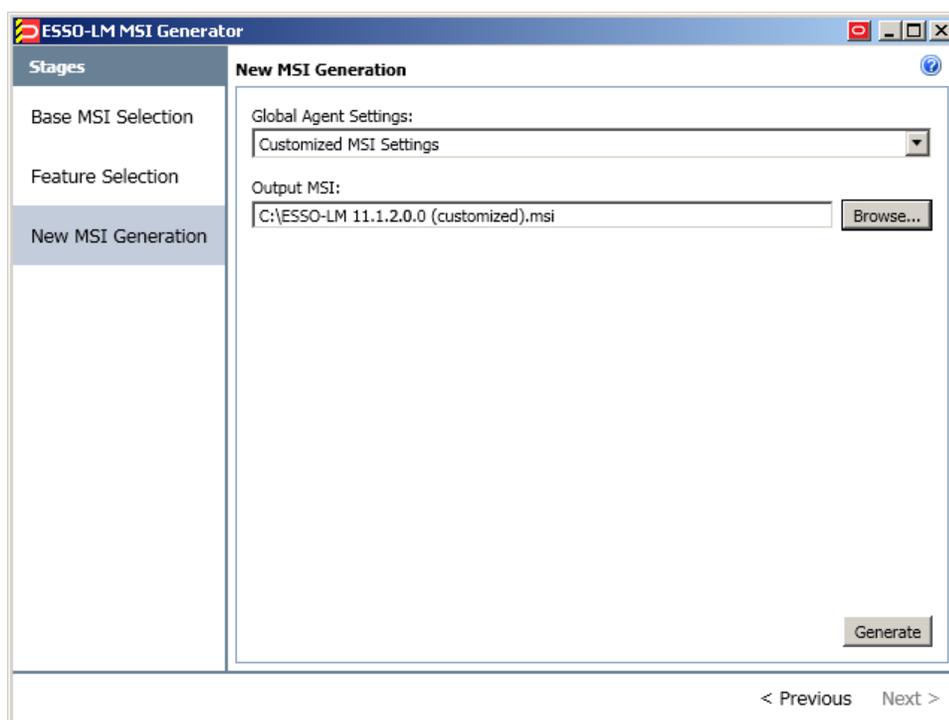


- ii. In the “Feature Selection” screen, select the Logon Manager components that you want to include in the package. Expand each category node to find the desired component(s), then select the check box next to each desired component. When you have finished, click **Next**.



- iii. In the "New MSI Generation" screen, do the following:
 1. Select the set of global Agent settings you have created in step 3 from the "Global Agent Settings" drop-down list.
 2. Click **Browse** and provide the target path and file name for the customized MSI package.

3. Click **Generate**.



5. Close the "Logon Manager MSI Generator" wizard.
6. Save the package settings to an XML file for future reference:
 - a. From the **File** menu, select **Save**.
 - b. When prompted, enter a descriptive file name and click **Save**.

Testing the Customized Package in a Pilot Deployment

Once you have generated your custom MSI package, test it by installing it on one or more pilot machines. Always install the package on a clean machine – that is, one that does not contain any Logon Manager-related files or registry entries. If you are using the same machine to test multiple packages, you must sanitize it before installing a new package so that old settings and files do not remain; if the installer detects existing data, it will perform an upgrade instead of a normal installation, resulting in false problems and false positives during testing.

To sanitize your pilot machine:

1. Delete the following directories and their contents:
 - The Logon Manager application directory:
 - On 32-bit systems: \Program Files\Passlogix
 - On 64-bit systems: \Program Files (x86)\Passlogix
 - The Logon Manager user data directory:
 - On Windows XP: \Documents and Settings\\Application Data\Passlogix
 - On Windows 7: \Users\\AppData\Roaming\Passlogix
2. Delete the following registry keys and their children:
 - On 32-bit systems:
 - HKEY_CURRENT_USER\Software\Passlogix
 - HKEY_LOCAL_MACHINE\Software\Passlogix
 - On 64-bit systems:
 - HKEY_CURRENT_USER\Software\Passlogix
 - HKEY_LOCAL_MACHINE\Software\Wow6432Node\Passlogix

When testing the package, look for any deployment and configuration problems; Oracle highly recommends that you set up a dedicated test environment so that you can perform a full range of staging tests, including the chosen global Agent settings, administrative overrides, synchronization with your central repository, and response to applications. The last item will require that you create a set of pilot templates and test them against a selected set of applications. This will let you spot and correct any application response issues that would have otherwise arisen (and been much more costly to resolve) in production.

When the package has been fully tested and verified, use a deployment tool (such as Microsoft Systems Management Server) to deploy Logon Manager enterprise-wide.

Oracle Enterprise Single Sign-On Suite Plus Configuration Reference

This section contains supplemental information you may find useful when installing Oracle Enterprise Single Sign-On Suite Plus. It covers the following topics:

- [Password Reset Client-Side Registry Settings](#)
- [Password Reset Server-Side Registry Settings](#)
- [Modifying the DCOM Permissions of the Password Reset Reporting Service](#)
- [Installing and Configuring an ADAM/AD-LDS Instance for Password Reset](#)

Password Reset Client-Side Registry Settings

Under **HKLM\Software\Passlogix\SSPR**

Key	Value Name	Data Type	Data [URLRoot] : http://[host]/vgoselfservicereset
WindowsInterface	EnrollURL	string (REG_SZ)	URL of the Enrollment service default page: [URLroot]/enrollmentclient/enrolluser.aspx
	ResetURL	string (REG_SZ)	URL of the reset service default page: [URLroot]/resetclient/default.aspx
	StatusURL	string (REG_SZ)	URL of the checkstatus page (notifies reset client that reset service is available: [URLroot]/resetclient/checkstatus.aspx
	CheckEnrollURL	string (REG_SZ)	URL of Enrollment check service (checks if user is enrolled in service): [URLroot]/resetclient/checkenrollment.aspx
	AutomaticEnroll	dword (REG_DWORD)	Set to a non-zero value to offer enrollment option to enroll user at next logon. Set to 0 (default) not to offer enrollment upon logon.
	ForceEnrollment	dword (REG_DWORD)	Set to a non-zero value to require unenrolled user to enroll at next logon. Set to 0 (default) not to require enrollment upon logon.
	CheckForce Enrollment	string (REG_SZ)	URL of force enrollment check service (checks the number of times user can defer Enrollment): [URLroot]/resetclient/checkforceenrollment.aspx

Key	Value Name	Data Type	Data [URLRoot] : http://[host]/vgo-selfservicerest
	WindowHeight	dword (REG_DWORD)	Adjusts the Password Reset browser window height.
	WindowWidth	dword (REG_DWORD)	Adjusts the Password Reset browser window width.
	Bitmap	string (REG_SZ)	Add this key to the registry to replace the standard GINA bitmap with a custom bitmap. Specify the full path to the custom bitmap file. See the Oracle online documentation center for full instructions (Windows XP and earlier).
WindowsInterface\ xx (where xx is the two-letter language code*)	LinkText	string (REG_SZ)	Enter desired text to instruct the user to click to reset password (Windows 7 only).
	WindowTitle	string (REG_SZ)	Enter desired text for the Enrollment and Reset Interface window titles.
Windows Interface\ xx\GinaWindows	WindowTitle1... WindowTitleX	string (REG_SZ)	Set to the window titles that should display the Password Reset banner on Windows XP.

***Language Codes for WindowsInterface\xx**

- Chinese: zh
- Czech: cs
- Danish: da
- Dutch: nl
- English: en
- Finnish: fi
- French: fr
- German: de
- Greek: el
- Hungarian: hu
- Italian: it
- Japanese: ja
- Korean: ko
- Norwegian: no
- Polish: pl
- Portuguese: pt
- Romanian: ro
- Russian: ru
- Slovak: sk
- Spanish: es
- Swedish: sv
- Thai: th
- Turkish: tr

Password Reset Server-Side Registry Settings

► Under HKLM\Software\Passlogix\SSPR

Key	Value Name	Data Type	Data
SSPRService	Reset_ShowIntroduction	dword REG_DWORD	Set to 1 to display the reset prompt. Set to 0 (default) to suppress the reset prompt.
SSPRService	Reset_CustomizedErrorMsg	dword REG_DWORD	Set to 1 to activate customizable reset error messages. Set to 0 (default) to use the built-in reset error messages.
SSPRService	SessionTimeoutMessage	dword REG_DWORD	Set to 1 to activate a message notifying the user that the session will timeout within a specified period of time. Set to 0 (default) if you do not want this message to display.

► Under HKLM\Software\Passlogix\SSPR\Storage\Extensions\

Key	Value Name	Data Type	Data
ADAM	Root	string (REG_SZ)	ADAM/AD-LDS partition root
	Classname	string (REG_SZ)	Adam

► Under HKLM\Software\Passlogix\SSPR\Storage\Extensions\ADAM\

Key	Value Name	Data Type	Data
Servers	Server1	string (REG_SZ)	server:port (of the ADAM/AD-LDS instance)

► Under HKLM\Software\Passlogix\SSPR\Storage\Extensions\

Key	Value Name	Data Type	Data
AD	Root	string (REG_SZ)	AD root
	Classname	string (REG_SZ)	AD

► Under HKLM\Software\Passlogix\SSPR\Storage\Extensions\AD\

Key	Value Name	Data Type	Data
Servers	Server1	string (REG_SZ)	server:port

Modifying the DCOM Permissions of the Password Reset Reporting Service

Password Reset sends reporting events to the SQL Reporting database through the SSO Reporting Service, which runs locally on the Web server. The local SSO Reporting Service sends those events to the SQL Reporting database at regular intervals.



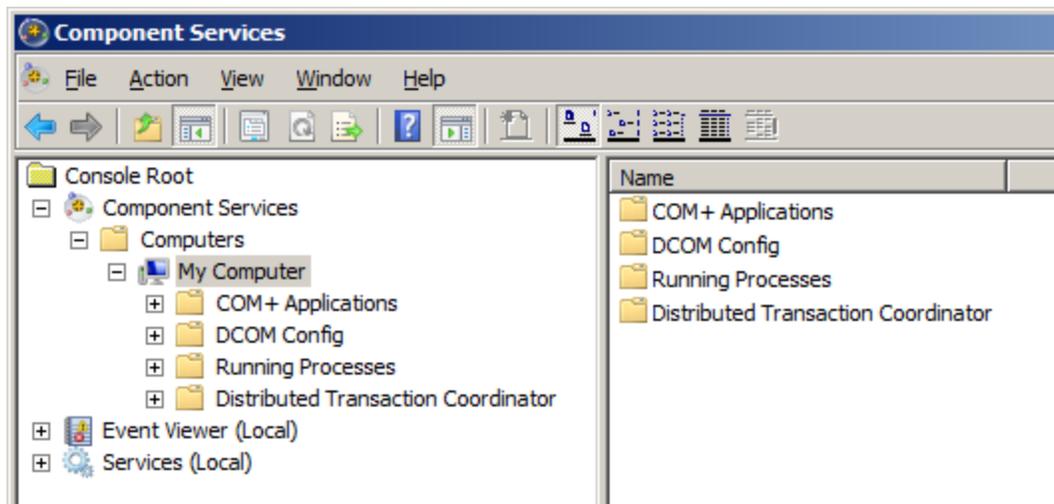
The default interval for transmitting events to the SQL Reporting database is 30 minutes. You can change this setting from the Reporting page of the Password Reset Management Console.

You can configure the Web server in one of two ways to enable reporting:

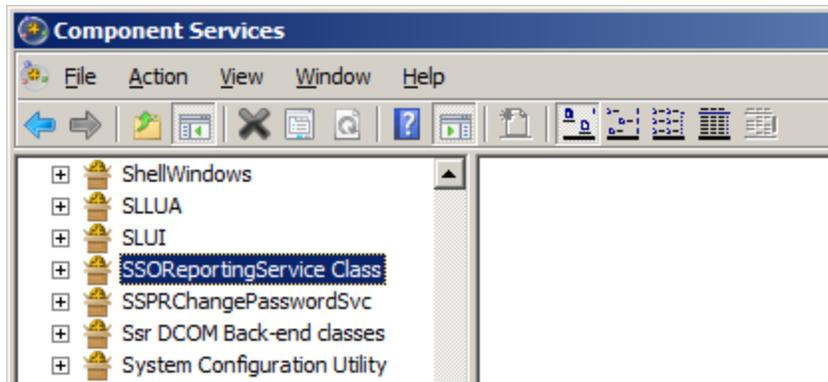
- Make the Password Reset Reset domain account a member of the local Administrators group.
- or
- (Recommended) Modify the DCOM permissions of the SSO Reporting Service to allow the Password Reset Reset account to launch and activate the SSO Reporting Service.

To modify the DCOM permissions:

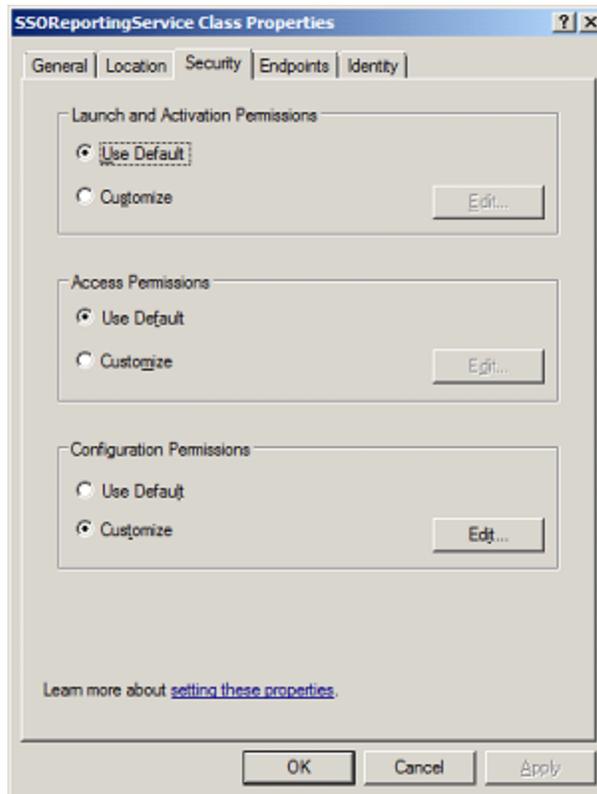
1. Click **Start > Run**. At the command prompt, type `dcomcnfg` and press **Enter** to launch the Component Services management tool.



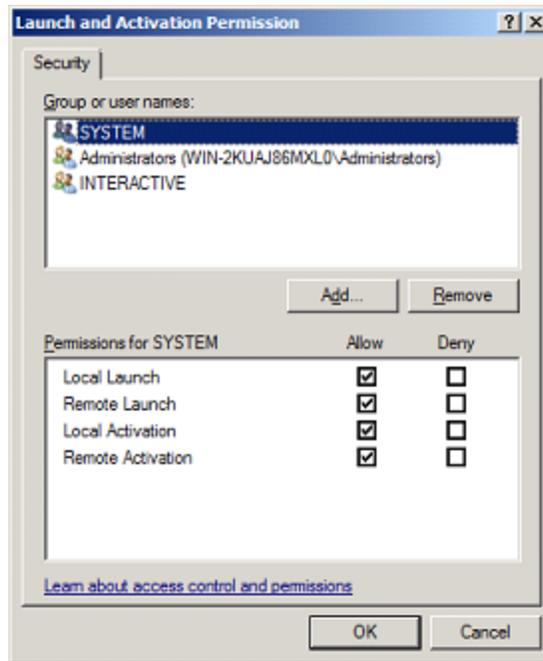
2. Navigate to the DCOM Config node: **Console Root > Component Services > Computers > My Computer > DCOM Config**.



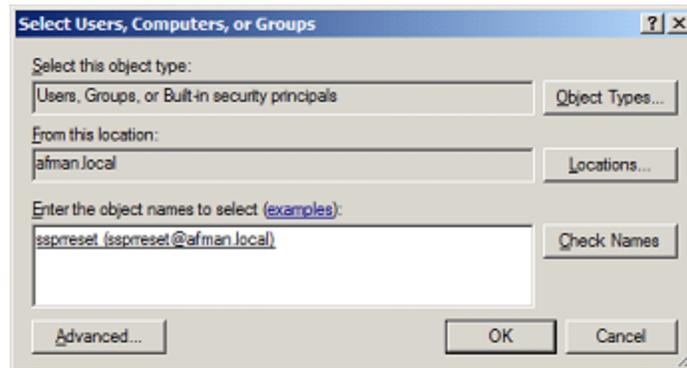
3. Locate the "SSORReportingService Class" node, right-click, and select **Properties**.
4. From the "SSORReportingService Class Properties" window, select the **Security** tab.



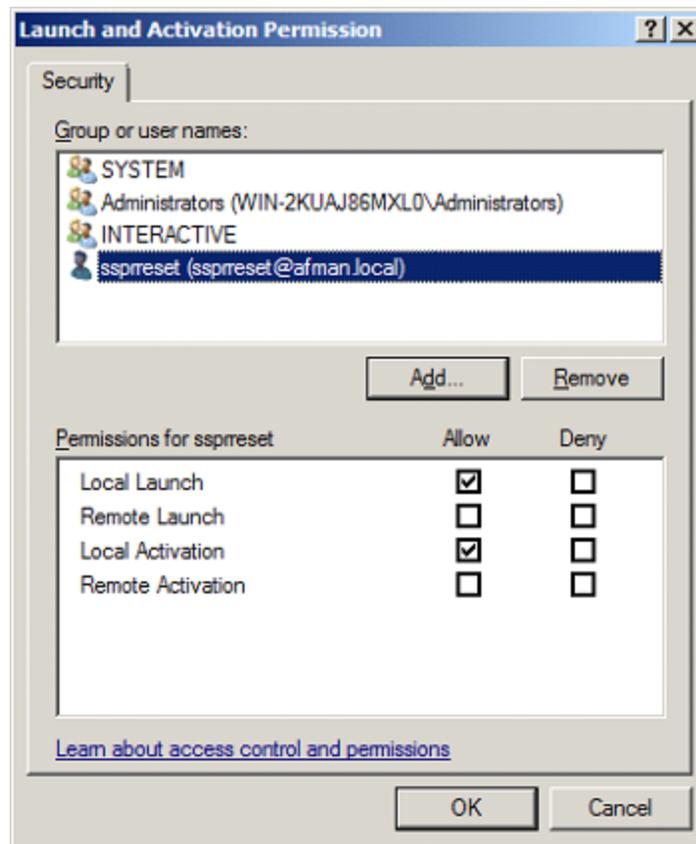
5. In the "Launch and Activation Permissions" section, click **Customize**, then click **Edit**.
6. In the "Group or user names:" section, click **Add**.



7. Enter the name of the Password Reset reset domain account and click **OK**.



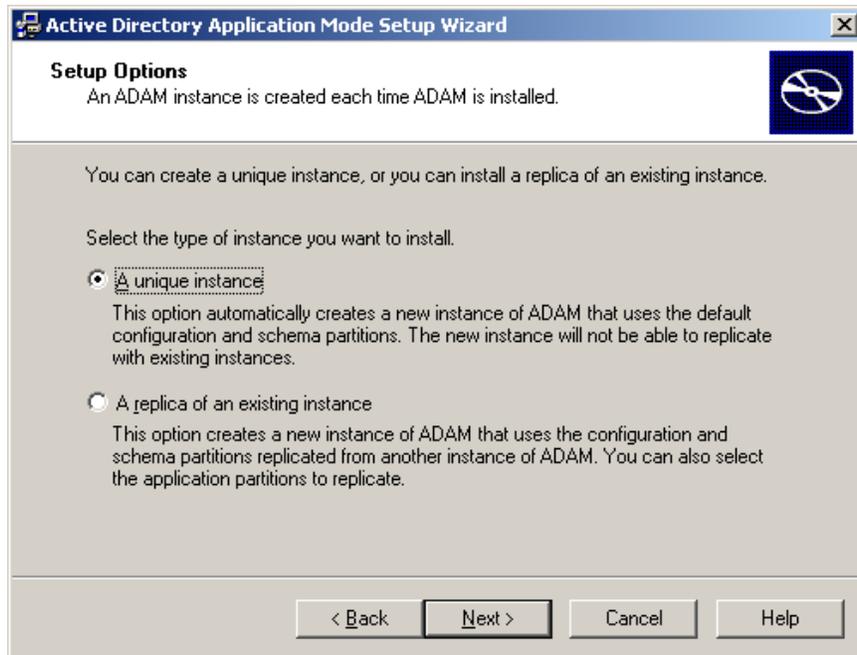
8. Verify that the Password Reset reset account has "Local Launch" and "Local Activation" permissions.



9. Click **OK** twice to finish.

Installing and Configuring an ADAM/AD-LDS Instance for Password Reset

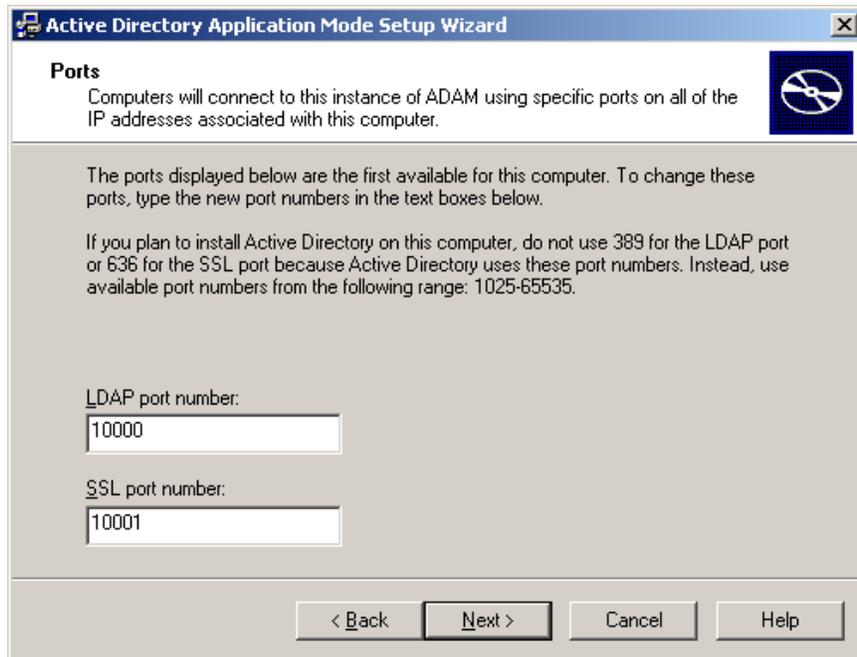
1. Run the ADAM/AD-LDS installer. Select **A unique instance** and click **Next**.



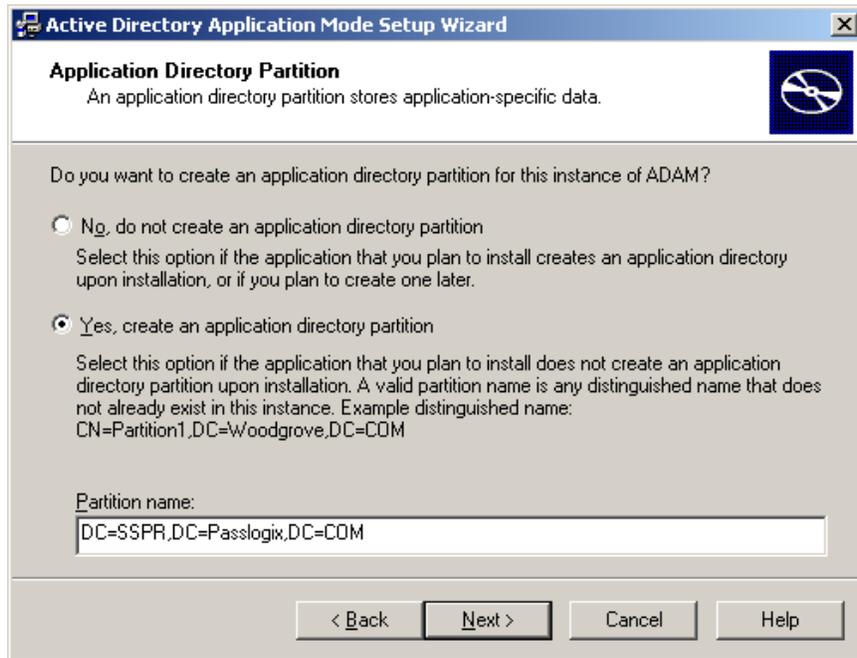
2. Provide your Instance name and click **Next**.



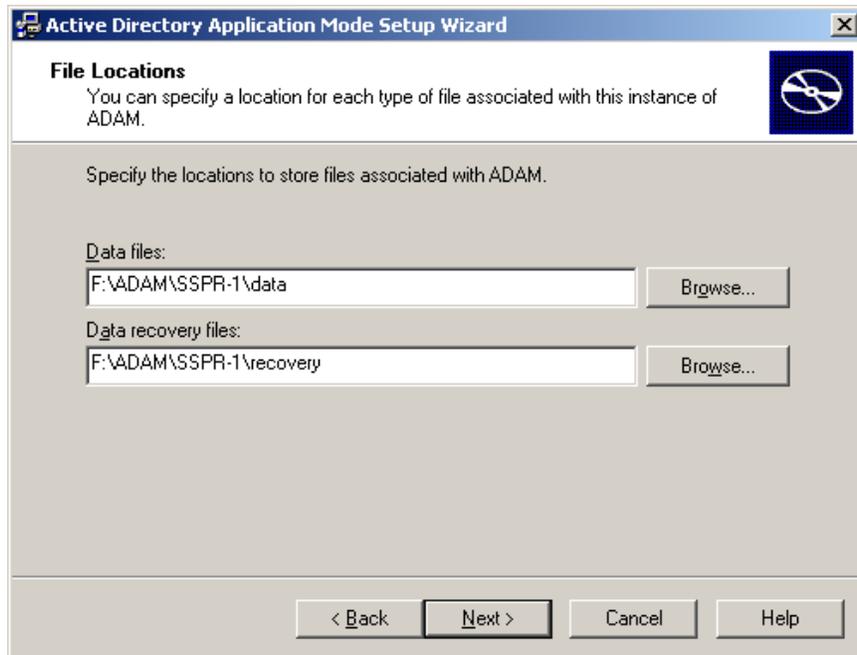
3. Specify port numbers of 10000 and 10001 (ten thousand range, for easy recall) and click **Next**.



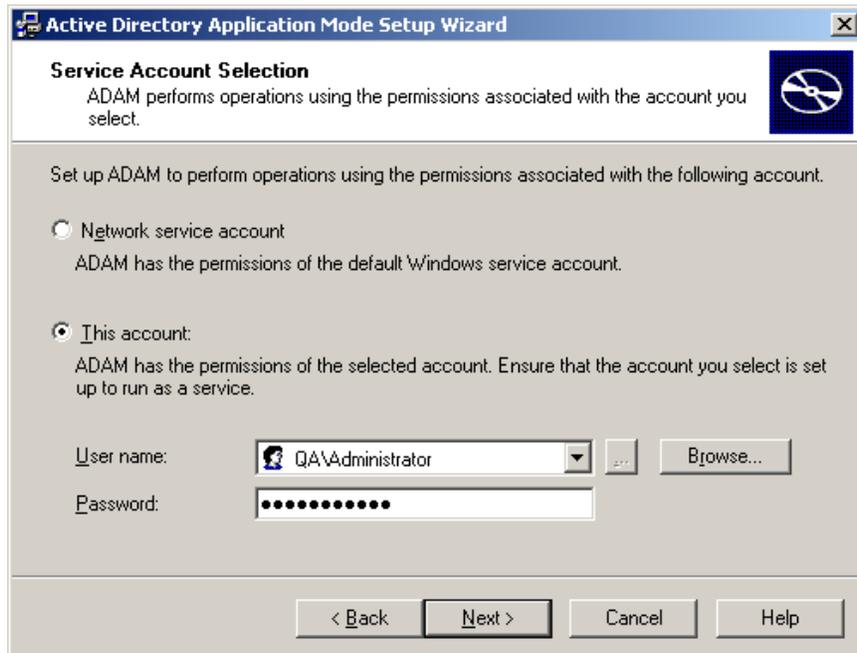
4. Specify the root DN (for example, `DC=SSPR,DC=Passlogix,DC=COM`) and click **Next**.



5. Specify an easy-to-find base location (for example, `%RootDrive%\ADAM\Instance`) and click **Next**.



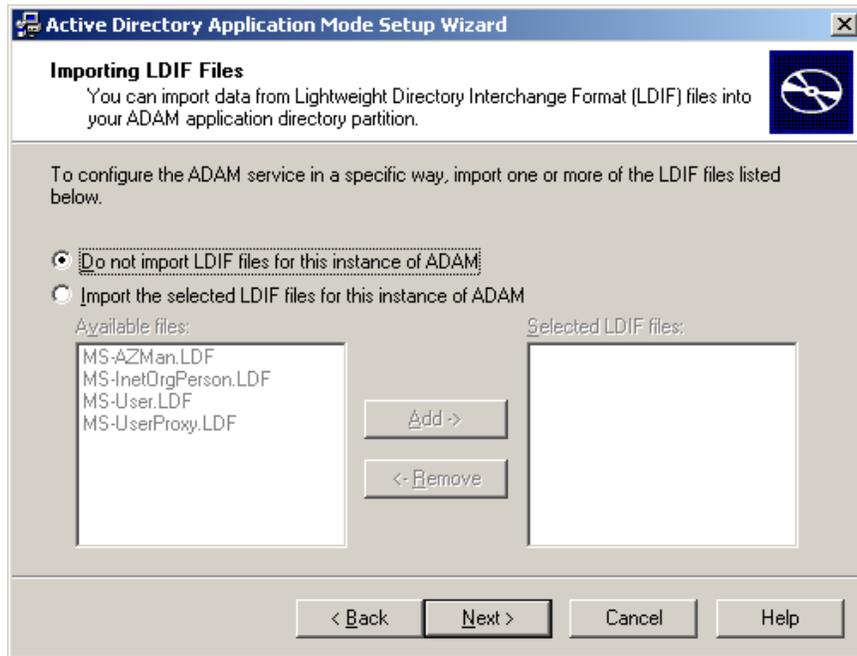
6. Specify the run privileges and click **Next**.



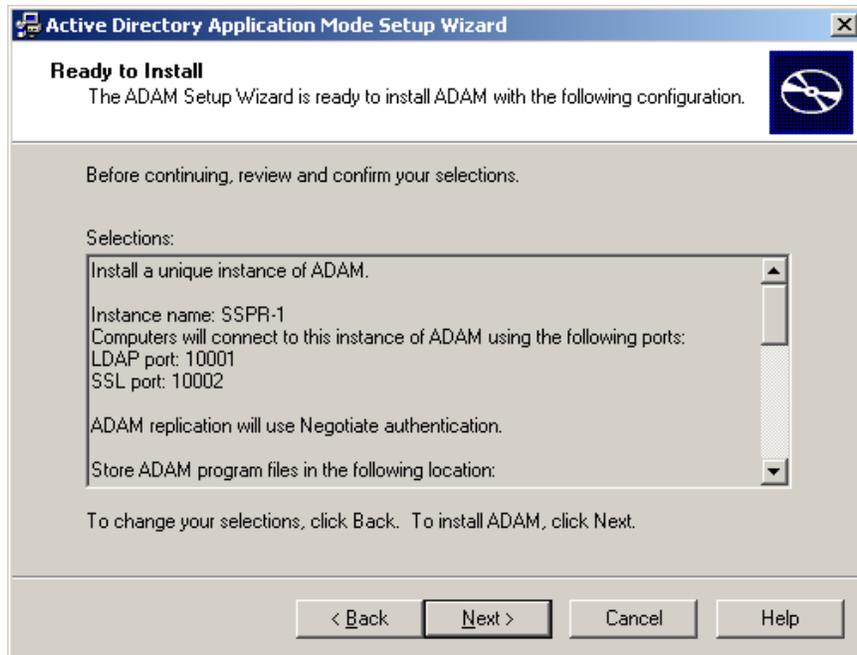
7. Specify the Administrative Permissions and click **Next**.



8. Select **Do not import LDIF files** for this instance of ADAM and click **Next**.



9. Click **Next** as requested to proceed.



10. Click **Finish**.

