

DigitalPersona® Pro Server for Active Directory v4.x Quick Start Installation Guide

Process Overview

Step	Description
1. Determine hardware requirements	Use the hardware requirements table to determine the appropriate hardware for your DigitalPersona environment.
2. Review the overview and installation documentation	The <i>DigitalPersona Pro Administrator Guide</i> describes in detail the steps required to prepare your environment and install or upgrade the DigitalPersona Pro Server for Active Directory and DigitalPersona Pro clients.
3. Prepare your Active Directory environment for the installation of DigitalPersona Pro Server	<ul style="list-style-type: none"> Extend the Active Directory schema to include attributes and classes used by DigitalPersona Server. Configure each domain in which DigitalPersona Pro Server will be installed by running the Domain Configuration Wizard.
4. Install DigitalPersona Pro Server	Double-click Setup.exe , which is located in the PRO SERVER folder of the Pro for AD distribution to launch the DigitalPersona Pro Server Installation Wizard.
5. Install the Administrative Templates	DigitalPersona Pro Server and Workstation use Active Directory Administrative Templates to provide access to various policies and settings used in configuring the DigitalPersona Pro environment.
6. Deploy DigitalPersona Pro clients	Deploy DigitalPersona Pro Workstation or DigitalPersona Pro Kiosk
7. Licensing & Administration	Configure DigitalPersona Policies & Settings, review Administration Tools, and install DigitalPersona Pro licenses.

Note: Some of the DigitalPersona Administration & Licensing management components can be installed optionally on a workstation computer. Refer to the *DigitalPersona Pro Administrator Guide* for more information.

Determine Hardware Requirements

DigitalPersona Pro Server has been fully performance tested and shown to be able to support the authentication of up to 3,000 users within a 10 minute period, per Server processor.

DigitalPersona Pro Server must be installed on a domain controller. Additionally, a Failover/Backup Pro Server is recommended for each Pro Server installed. Also, if you have multiple sites, we recommend a Pro Server and a Failover/Backup server at each site.

After analyzing your network configuration and bandwidth limitations, you may want to add additional servers for load balancing, or arrange for additional servers on a domain or site basis to compensate for potential bandwidth bottlenecks.

Use the formula below to assist you in determining the number of DigitalPersona Pro servers that you will require.

- A. Total number of users _____ /3,000 = Base Minimum Server/Processors _____
 B. Backup/Failover Servers (Recommended) _____
 C. Additional Servers per network analysis _____

Total Servers (A + B + C) = _____

Prepare Your Environment

Extend Your Active Directory Schema

Prior to installing DigitalPersona Pro Server, the Active Directory schema must be extended to create new attributes for the user object and new classes, as well as to make modifications to existing classes. The Active Directory Schema Extension Wizard automatically handles all of the necessary changes to the schema. This schema extension is global to the Active Directory forest.

The Active Directory Schema Extension Wizard must be run from the schema master domain controller, or the data may not replicate fast enough to allow the wizard to continue. If the data is not replicated fast enough, the wizard will terminate, and you should then wait one replication cycle before running the wizard again.

After the schema extension, you must wait for Active Directory schema replication to be completed. The amount of time this takes will depend on the complexity of your Active Directory infrastructure. You must have Schema Administrator privileges to run the Schema Extension Wizard.

To run the Active Directory Schema Extension Wizard:

- Launch the Schema Extension Wizard by double-clicking **DPSchemaExt.exe**, which is located in the Pro Server\AD Schema Extension folder of the Pro for AD distribution.
- Follow the software prompts, accept the license agreement and when prompted to proceed with the schema extension, click **Yes**.
- Next, specify a location and name for the log file generated by the Schema Extension Wizard in the **Save Log File As** dialog box. Then, click **Save**.
 - NOTE: If the schema is not writable, the wizard will inform you of the fact and will allow you to make it writable. If this dialog box displays, click **Yes** to make the schema writable and perform the schema extension.
- The wizard will now extend the schema and provide information such as the class and attribute names. To close the wizard, click **Finish**.

Configure Each Domain

For each domain on which you plan to install DigitalPersona Pro Server, you need to run the DigitalPersona Pro Active Directory Domain Configuration Wizard, which configures the required domain-specific data including the necessary cryptographic keys.

You must have Administrator privileges to run the Domain Configuration Wizard.

You should run this wizard only once on each domain where Pro Server will be installed. Running the wizard a second time during a single replication period, will result in corrupted Server data, and any DigitalPersona Pro Servers in the domain will be unusable.

To run the DigitalPersona Pro Active Directory Domain Configuration Wizard:

- Launch the Domain Configuration Wizard by Double-click **DPDomainConfig.exe**, which is located in the AD Domain Configuration folder of the Pro for AD distribution.
- Follow the software prompts and accept the license agreement.

- A warning reminds you not to run this wizard if you have an existing DigitalPersona Pro Server installation for this domain. If you are sure there are no other DigitalPersona Pro Server installations on the domain you are configuring, check the **I accept that the domain will be configured** box and click **Next**.
- Next, specify a location and name for the log file generated by the Domain Configuration Wizard in the **Save Log File As** dialog box. Then, click **Save**.
- The wizard will now perform the necessary changes to the domain. To close the wizard, click **Finish**.

Install DigitalPersona Pro Server

DigitalPersona Pro Server requires the minimum hardware and software requirements specified by Microsoft for a domain controller. DigitalPersona Pro Server must be installed on a healthy domain controller.

You must have Administrator privileges to install DigitalPersona Pro Server.

To install DigitalPersona Pro Server:

- Launch the DigitalPersona Pro Server Installation Wizard by double-clicking **Setup.exe**, which is located in the root of the **Pro Server** folder the Pro for AD distribution.
- When the wizard opens, click **Next**, accept the license agreement and then click **Next**.
- On the next page, you can specify the folder in which DigitalPersona Pro Server will be installed. If you want to install DigitalPersona Pro in the default location, click **Next**.
- The wizard will install the Server software. To close the wizard, click **Finish**

Install the Administrative Templates

DigitalPersona Pro Server and Workstation use Active Directory Administrative Templates to provide access to various policies and settings used in configuring the DigitalPersona Pro environment. These policies and settings are described in the chapter, "Configuring Policies and Settings" of the *DigitalPersona Pro Administrator Guide*.

Adding the Administrative Template to a GPO makes the DigitalPersona Pro policies and settings available.

For centralized administration of DigitalPersona Pro Workstations, both Server and Workstation Administrative Templates need to be added to GPO(s) on the appropriate node(s) by the domain administrator.

In order to install the DigitalPersona Pro Administrative Templates and access their settings, you need to have domain administrator rights.

DigitalPersona Pro Server Template

- In the Active Directory Users and Computers tool, right click on a node whose GPO can be distributed to Domain Controllers running DigitalPersona Pro Server and select Properties.
- In the Properties dialog, click **Edit** to display the Group Policy Editor.
- In the Group Policy Editor, right-click on the **Computer Configuration/Administrative Templates** folder and select Add/Remove Templates.
- In the Add/Remove Templates dialog, select **DigitalPersonaProSvr.adm** and click **Add**.

DigitalPersona Pro Workstation Template

- Next, select **DigitalPersonaProWksta.adm** and click **Add**, then click Close to exit the dialog.
- A DigitalPersona Pro folder will then be listed under Computer Configuration/Administrative Templates.
- DigitalPersonaProWksta.adm should also be added to the Active Directory GPOs where it will be distributed to computers running DigitalPersona Pro Workstation.
- In the Active Directory Users and Computers tool, right click on a node whose GPO can be distributed to computers running DigitalPersona Pro Workstation and select Properties.
- In the Properties dialog, click Edit to display the Group Policy Editor.
- In the Group Policy Editor, right-click on the **Computer Configuration/Administrative Templates** folder and select Add/Remove Templates.
- Select DigitalPersonaProWksta.adm and click **Add**. Next, click **Close** to exit the dialog.
- Use the Group Policy Editor to modify DigitalPersona Pro settings by clicking Properties on the shortcut menu of each setting and then clicking the Policy tab on the Properties dialog box.

For a complete list of DigitalPersona Pro settings, see “DigitalPersona Pro Policies and Settings” located *DigitalPersona Pro Administrator Guide*.

Deploy DigitalPersona Workstation

DigitalPersona Pro Workstation provides several features that incorporate biometric authentication for secured sign on to Windows, applications and Web sites, as well as locking/unlocking the computer.

DigitalPersona Pro Workstation is supported by the following operating systems:

- Windows Server 2008 (32 and 64-bit) or Server 2003 (32 and 64-bit)
- Windows Vista (32 and 64-bit Business, Ultimate or Enterprise)
Windows XP Professional (32 and 64-bit) or Windows XP Embedded (32-bit only)
- Windows 2000 SP4.

Note: Windows Vista Home and Windows XP Home Editions are not supported

DigitalPersona Workstation can be installed manually or you can use Group Policy to automatically distribute it to your enterprise.

You must have Administrator privileges to install DigitalPersona Pro Workstation.

Manually Install DigitalPersona Pro Workstation

To install DigitalPersona Pro Workstation:

- Locate and double-click the **Setup.exe** which is located in the root of the **Pro Workstation** folder the Pro for AD distribution. When the Welcome page displays, click **Next** to proceed with the installation.
- Select the **I accept the terms in the license agreement button** and click **Next**. To install DigitalPersona Pro to the default location, click **Next**.
- Click **Next** for the Complete installation, which installs the One Touch Applications. Then, click **Next**. When you click Next, the installer begins installing DigitalPersona Pro on your computer
- If prompted to do so, plug the USB cable from the fingerprint reader into your computer's USB port.
- When installation is finished, click **Finish** to close the installer. Click **Yes** when prompted to restart the computer.

Assign DigitalPersona Pro Workstation with Group Policy

To automatically deploy DigitalPersona Pro Workstations in your enterprise:

- Start the Active Directory Users and Computers snap-in. To do this, click **Start, point to Administrative Tools, and then click Active Directory Users and Computers**.
- In the console tree, **right-click your domain**, and then click **Properties**.
- Click the Group Policy tab, select the group policy object that you want, and then click **Edit**.
- Under **Computer Configuration, expand Software Settings**.
- Right-click Software installation, point to **New**, and then click **Package**.
- In the Open dialog box, type the full Universal Naming Convention (UNC) path of the shared location that contains DigitalPersona Pro Workstation. For example, \\file server\share\DigitalPersona Pro Solution\DigitalPersona Pro Workstation\Setup.MSI.

NOTE: Do not use the Browse button to access the location. Make sure that you use the UNC path to the shared installer package.
- Click **Open**, then **Assigned**, and then click **OK**. The package is listed in the right pane of the Group Policy window.
- Close the Group Policy snap-in, click **OK**, and then quit the Active Directory Users and Computers snap-in.

When the client computer starts, the managed software package will be automatically installed.

Licensing & Administration

The licensing model for DigitalPersona Pro for Active Directory Server requires that each domain be licensed for the number of users who will register their fingerprints within that domain.

The DigitalPersona Pro License Control Manager is used to gather information necessary for requesting a license from DigitalPersona, as well as managing User Authentication Licenses (UALs) for users authenticating to DigitalPersona Pro Servers.

NOTE: By default, when License Control Manager is launched it will connect to the domain to which the currently logged on user belongs.

In order for DigitalPersona to issue a requested license, certain domain information necessary to bind the license to the domain must be collected and sent to DigitalPersona, Inc. This step needs to be done once for each domain where users will be authenticated by DigitalPersona Pro Servers.

To collect the required domain information:

- Launch License Control Manager.
- Click the **Get License Info button**.
- License Control Manager will collect the domain information that it needs and display a Save As dialog box.
- Type a file name that will identify the file as belonging to your company and what domain it refers to. The file must have a .dplif extension. Click Save to save the file.
- Request a license for the domain by sending the file as an attachment in an email containing your Purchase Order # for the number of User Authentication Licenses needed and address it to dplis@digitalpersona.com; or contact your DigitalPersona Sales Account Manager.

The following table lists each of the DigitalPersona Pro Administration Tools, their purpose, how they are installed or used.

Admin Tool	Purpose	Installation/Reference
License Control Manager	Used to control and manage licenses for DigitalPersona Pro Servers, including gathering the information necessary for requesting a license, adding and removing licenses and viewing license and user information.	Automatically installed as part of the Administration Tools installation.
Attended Fingerprint Registration Tool	Allows supervision of users when registering their fingerprints.	Automatically installed as part of the Administration Tools installation, but needs to be set up before use.
One Touch SignOn Administration Tool	The One Touch SignOn Administration Tool enables administrators to add biometric authentication to Web sites and programs.	Installed separately, the One Touch SignOn Administration Tool allows you to log on to a password-protected program or Web site by simply touching the reader.
User Query Tool	Used to query the DigitalPersona Pro for Active Directory user database for information about DigitalPersona Pro users, and can be run as an Interactive Query, from the command line, or from within a script.	Automatically installed as part of the Administration Tools installation.

All of the tools may be installed on a single workstation for centralized administration of DigitalPersona Pro for Active Directory, or for larger organizations, each tool may be installed on a separate workstation in order to divide the administration of various features among several people.