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# DigitalPersona Pro Enterprise 5.5.1 Upgrade Notes

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# General Upgrade and Deployment Information

## **Upgrade Planning**

DigitalPersona Pro Enterprise 5.5.1 has the ability to upgrade from the following releases only:

- DigitalPersona Pro for Active Directory 4.4.3
- DigitalPersona Pro Enterprise 5.1.x
- DigitalPersona Pro Enterprise 5.2.x
- DigitalPersona Pro Enterprise 5.3.x
- DigitalPersona Pro Enterprise 5.4.x
- DigitalPersona Pro Enterprise 5.5.0

Upgrading from releases of DigitalPersona Pro for Active Directory prior to v4.4.3 requires that you first complete an upgrade to DigitalPersona Pro for Active Directory 4.4.3 and then migrate to DigitalPersona Pro Enterprise 5.5.1.

For fresh installs of DigitalPersona Pro for Enterprise 5.5.1, please refer to the DigitalPersona Pro Enterprise 5.5.1 Administrator's guide, the DigitalPersona Pro Enterprise 5.5.1 Quick Start Guides (*both available at [digitalpersona.com/support/reference-material](http://digitalpersona.com/support/reference-material)*) and the Readme.txt files included with the software.

Upgrading to DigitalPersona Pro Enterprise requires careful preparation, planning, and testing and while DigitalPersona strives to ensure trouble-free software upgrades, we cannot guarantee performance in every IT environment.

- Review the Readme.txt file included with each DigitalPersona Pro Enterprise product.
- Review the Administrator Guide and identify any potential changes to the system administration settings.
- Perform a lab test of the upgrade in an environment that approximates your production environment prior to performing a live/production upgrade.
- Incrementally deploy and test your system upgrade (i.e. Server(s) then clients).
- Prepare a software rollback plan to reverse any potential problems.

Before you begin the process of upgrading to DigitalPersona Pro Enterprise 5.5.1, you will want to test the upgrade process to make sure that you know exactly what you have to do to have a successful upgrade. By using a trial upgrade to test the process, you can find out:

- What features and policies you have deployed your environment, so that you can plan for how to deal with them during upgrade.
- The timing for your upgrade or how long upgrade will take for your environment.
- What you need to plan for, operationally — for example, resources to have available.

In addition, you can use the trial upgrade to become familiar with the upgrade tools and the process itself, so that you know what to expect when you go through the actual process. Through testing, you can find out:

- What if any special needs apply to your environment and which upgrade approach will be most efficient for you?
- What techniques can you use to mitigate downtime?

## **Pro for Active Directory 4.x features NOT Supported by Pro Enterprise 5.5.1**

Pro for Active Directory 4.4.3 customers looking to upgrade to Pro Enterprise 5.5.1 should consider that some Pro 4.4.3 features are not presently available on the 5.x platform.

The following features are **CURRENTLY NOT** supported by the Pro Enterprise 5.x platform:

- DigitalPersona Online Client versions 4.x and older must be upgraded to Online Client v5.x.
- Applications developed with the DigitalPersona Pro SDK 4.X (Applications must be re-written with Pro 5.x SDK)
- Support for installation on Windows Server 2000 or Windows Server 2003 SP1 (must be SP2 or better)
- DigitalPersona Pro Fingerprint Logon for Domain Controllers
- Support for Windows XP 64-bit as a client Operating System

## Notebooks with Built-in Readers

DigitalPersona Pro Workstation for Enterprise supports a broad range of built-in fingerprint readers in notebooks. However, you should always uninstall the existing driver for these readers and install the drivers that are officially supported by Pro Enterprise Workstation. These driver software are located in ".\Client\Drivers" folder in the product package. In addition, any third-party fingerprint applications that use these readers must be disabled or uninstalled in order for the Pro Workstation for Enterprise to utilize the reader.

## Recommend False Accept Rate (FAR) Setting

**We recommend setting the False Accept Rate to 'Medium High' (1 in 100,000).** The FAR used by all Pro Enterprise Servers and Pro Enterprise clients must be the same value. The FAR is the mathematical probability of two different fingerprints being falsely matched. For specific instructions on configuring the FAR settings for your deployment, please consult the DigitalPersona Pro Enterprise Administrator's Guide. If the FAR is not explicitly set, defaults will be used.

## Support for Previous Versions

DigitalPersona Technical Support is available for the current and previous (major / minor) software releases. To be eligible for technical support and to ensure optimal software upgradeability to future releases, we recommend that all versions of DigitalPersona Pro Enterprise software prior to version v4.4.3 be upgraded to the latest release.

## Upgrading Your Pro Installation & Maintenance & Support Plans

Please contact [sales@digitalpersona.com](mailto:sales@digitalpersona.com) for information & pricing to upgrade your DigitalPersona Pro installation and for details and pricing for our Maintenance & Support plans.

## Pro Enterprise 5.x Clients Require Pro Enterprise 5.x Server

Please note that Pro Enterprise 5.x clients cannot be deployed with Pro for Active Directory 4.4.3 Server or earlier. You must complete the upgrade of all Pro for Active Directory 4.4.3 Server to Pro Enterprise Server 5.x prior to installing DigitalPersona Pro for Enterprise 5.x clients.

## Current Versions of Pro Components in the Pro Enterprise Solution

Pro Solution	Additional Optional Components
Pro Enterprise Server ..... <b>5.5.1</b>	
Pro Workstation for Enterprise ..... <b>5.5.1</b>	
Password Manager Administration Tool..... <b>6.0.1</b>	ESPM (Extended Server Policy Module) ..... <b>5.5.0</b>
Pro Kiosk for Enterprise..... <b>5.5.1</b>	Face Recognition Plugin for Pro..... <b>7.00.5010</b>
Pro Enterprise Administrations Tools ..... <b>5.5.1</b>	
Pro Reports..... <b>5.4.3</b>	

# OS and Web Browser Version Supportability Information

## Pro WORKSTATION and KIOSK versions to OS table

Version	Win8.x x64/x86	Win7 x64/x86	2008*(+) x64/x86	Vista(++) x64 SP1	Vista(++) x86 SP1	XP x64	XP x86 SP3	XPe SP3	2003(+) x64 SP2	2003(+) x86 SP2	SBS 2003(+) R2 x86 SP2	2000(+) x86
5.4.x – <b>5.5.1</b>	X	X	X	X	X	-	X	X	X	X	X	-
5.0.0 – 5.3.0	-	X	X	X	X	-	X	X	X	X	X	-
4.4.[123]	-	X	X	X	X	X	X	X	X	X	X	X
4.3.[12] - 4.4.0	-	-	X	X	X	X	X	X	X	X	X	X
4.3.0	-	-	X	X	X	-	X	X	X	X	X	X
4.2.[145]	-	-	-	X	X	-	X	X	-	X	X	X
4.2.0	-	-	-	-	X	-	X	X	-	X	X	X
4.[01].x	-	-	-	-	-	-	X	-	-	X	-	X

\* = 2008 includes 2008 R2

+ = *Not* configured as a domain controller

++ = Vista Home is *not* supported

## Pro SERVER version to OS table

Version	2012 x64/x86	2008* x64/x86	SBS 2008	2003 x64/x86 SP2	SBS 2003 SP2 x86	2000 x86
<b>5.5.x</b>	X	X	X	X	X	-
5.[01234]	-	X	X	X	X	-
4.4.3	-	X (+++)	X	X (+++)	X	X

+++ = For legacy 3.x Pro client support install the x86 Pro Server onto x64 OSs

\* = 2008 includes 2008 R2

## Pro client to Supported Web Browser Table

Supported in version	IE 11	IE 10	IE 9	IE 8	IE 7	IE 6	Chrome up to v32	Chrome up to v18	FF 13 to 21	FF 9 to 12	FF 5 to 8	FF 3.6 to 4
<b>5.5.x</b>	X	X	X	X	X	X	X	X	X	-	-	-
5.4.x		X	X	X	X	X	-	X	-	X	X	-
5.3.x		-	X	X	X	X	-	X	-	X	X	-
5.2.x		-	X	X	X	X	-	-	-	-	X	X
5.1.x		-	X	X	X	X	-	-	-	-	-	X
5.0.1		-	-	X	X	X	-	-	-	-	-	X
4.4.x - 5.0.0		-	-	X	X	X	-	-	-	-	-	-
4.3.x		-	-	-	X	X	-	-	-	-	-	-

IE = Internet Explorer

FF = Firefox

Pro does NOT support: Safari, Opera, non-Firefox Mozilla, Netscape, AOL, or any other browser not listed.

# Pro Enterprise Upgrade Frequently Asked Questions (FAQ)

**Q: Where do I obtain the Pro Enterprise Administrator's Guide?**

A: You can download the Pro Administrator's Guide at [digitalpersona.com/Support/Reference-Material/DigitalPersona-Pro-Reference-Material-Guides/](http://digitalpersona.com/Support/Reference-Material/DigitalPersona-Pro-Reference-Material-Guides/)

**Q: Do I need to run the Pro for Enterprise 5.x Schema Extension?**

A: Please see below

- When upgrading within the Pro 5.x family the 5.x schema will NOT need to be run.
- When going from Pro 4.4.3 to Pro 5.x, the 5.x schema will need to be extended prior to installing Pro Server.
- If you initially deployed Pro for Active Directory prior to version 4.3.x, review the section of this document entitled *How Do I Increase the Storage that is used for "Secrets"* prior to extending the schema.
- The Pro for Enterprise 5.x Schema Extension Wizard should only run once during the upgrade as running the Schema Extension Wizard a second time could result in data loss.

**Q: Do I need to run the DigitalPersona Pro for AD 5.x Domain Configuration Wizard?**

A: Please see below

- When migrating from Pro for AD 4.4.3 to Pro for Enterprise 5.x, the Domain Config Wizard must be run.
- When upgrading from Pro versions earlier than 5.4.x, the Domain Config Wizard MUST be run.
- When upgrading from Pro versions 5.4.x and higher, the Domain Config Wizard is NOT run.
- Generally, when needed, the Pro for Enterprise Domain Config Wizard need only be run once per upgrade. Running the Domain Config a second time on a functioning Pro Enterprise environment will reset Pro related permissions back to their defaults.

**Q: Do I need to install Administrative Templates or set GPOs on every Domain Controller (DC) / Pro Server?**

A: To view Group Policy settings, generally yes. For functionality, not really. Adm files and GPOs are stored in AD and need only be set once (from any AD Users and Computers or GPMC) and then exist in AD and are replicated by AD among all the DCs and effect clients. On 2003 .adm files need to be added to GPOs for settings to be available, with 2008 and .admx/l files, this step is no longer needed. If using Microsoft Central Store then .admx/l files need to be manually copied from the default locations to the PolicyDefinitions location. *In addition to the Administrative Templates node, Pro extends the Policies/Software Settings node via a GPMC snap-in extension – this part of the Admin Tools install.*

**Q: Do I need to add Pro Enterprise licenses on every DC / Pro Server?**

A: Licenses are stored in AD and need only be added once and then the licenses are replicated along with other objects in Active Directory. (Though quantities and the file extensions may be the same, Pro 4.x and Pro 5.x licenses are programmatically different so in going from 4.4.3 to 5.x a new .dplc file must be obtained from [DPOrders@DigitalPersona.com](mailto:DPOrders@DigitalPersona.com) and used.)

**Q: Do I need to install Pro Server on every DC?**

A: For optimal fault tolerance and load balancing, Pro Enterprise Server should be installed on every DC. If you use AD Sites, then minimally there should be a Pro Server at each site. Pro Kiosk requires Pro Enterprise Server connectivity. Pro Workstation does credential caching, much like Microsoft's credential caching, and thus can operate without Pro Enterprise Server for a while in a manner that is mostly transparent to the user.

**Q: The instructions say to remove Pro Server <older> and then (freshly) install Pro Server 5.5.1 – will I lose fingerprint or user password data due to this?**

A: No, there should be no user data loss. This is simply the removal of the Pro Biometric Authentication Service and then an install of the Pro Authentication Service; Pro data in AD is untouched. Stored in AD is DP's copy of User's domain credentials, OTS/PMP secrets from synchronized workstations, and OTI/PM secrets from synchronized workstations.

**Q: If using Pro Kiosk v4.4.3, do I need to install the Pro Kiosk Add-on when using Pro Enterprise Server 5.x?**

A: No. With Pro Enterprise Server 5.x, the add-on to support Pro Kiosk functionality is now integrated into Pro Enterprise Server 5.x. However, Pro Kiosk functionality now requires that the ID Server feature be enabled. For additional information, please consult the DigitalPersona Pro Enterprise Administrator's Guide

**Q: If upgrading from Pro ID Server v4.4.3, do I need to install ID Server onto Pro Enterprise Server?**

A: With DigitalPersona Pro Enterprise 5.x, identification functionality is integrated into the DigitalPersona Pro Enterprise Server and the DigitalPersona Pro Enterprise 5.x client, therefore a separate ID Server and client are no longer required. There are, however, new ID Server GPO settings. For additional information, please consult the DigitalPersona Pro Enterprise Administrator's Guide.

**Q: Where do I obtain these Pro Upgrade Notes? (If you're reading a print-out, or to send a link.)**

A: Download or view the Pro Upgrade Notes PDF from here: <http://www.digitalpersona.com/support/reference-material/pro-upgrade-notes/>

# Administrative Templates & DigitalPersona Active Directory Products

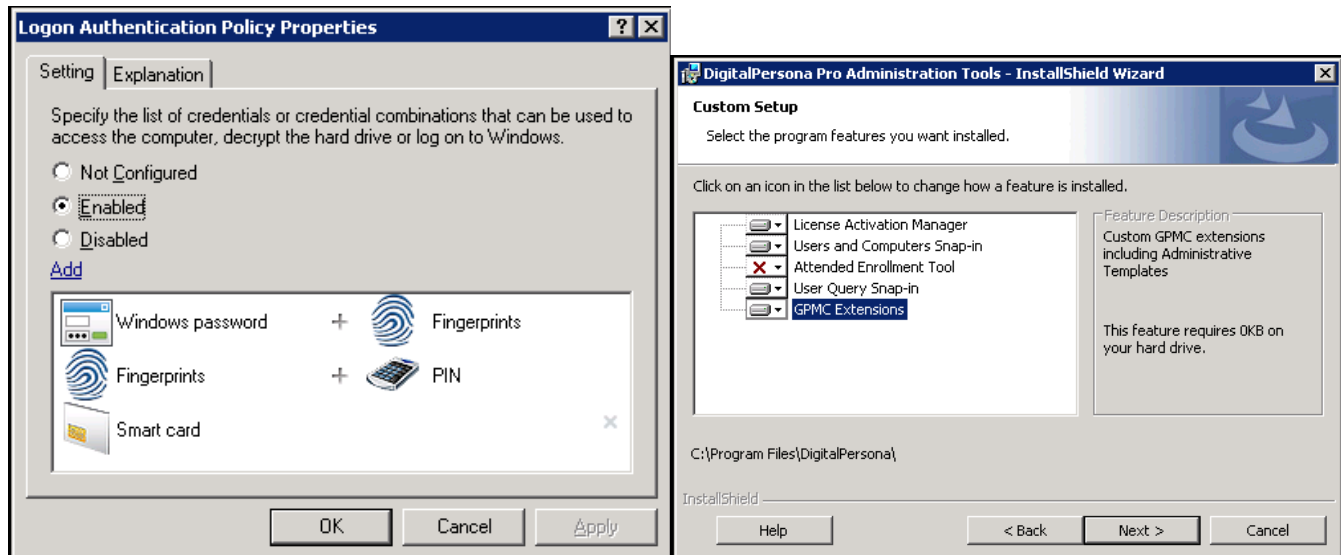
## New more robust policy configuration interface

With Pro 5.x, some GPO policy settings have been moved from the more traditional Administrative Templates area to a new location – allowing more complex configurations to be created. This GPO location is also where the Pro 5.x licenses are stored: Computer Configuration, Policies, Software Settings, DigitalPersona Pro Client, Security. Policies accessed here include:

- Logon
- Session
- Kiosk
- session authentication policies
- a credential self-enrollment governing policy
- Kiosk administration policies

**Remember to look for settings both here and in the Administrative Templates folder.**

Below (on left) is a demonstrative screenshot example of a policy that would accept for authentication (Windows Password AND Fingerprints) OR (Fingerprints AND PIN) OR (Smartcard). Just as .adm and .admx files need to be in place to view, or edit, their settings, the Pro Administrative Tools GPMC Extensions component (right screenshot below) needs to be installed on a system to view or edit these specific policies.



## ADMX and ADM History

Since the release of DigitalPersona Pro for Active Directory 3.x, DigitalPersona Pro behavior has been governed by Administrative Templates in the form of ADM files. Group Policy Administrative Templates (ADM Files) contain a collection of settings and registry keys for user and computer configurations. When used with a Group Policy Editor, Administrative Templates are displayed in human readable, friendly text.

ADM files are used in Windows Server 2000 / Windows Server 2003 environments. Microsoft Windows Vista and Windows Server 2008 introduced a new format for displaying registry-based policy settings in the form of an XML file format known as ADMX and ADML files. These new ADMX files replace ADM files, which used their own markup language. The Group Policy tools —Group Policy Object Editor and Group Policy Management Console—remain largely unchanged. In the majority of situations, you will not notice the presence of ADMX files during your day-to-day Group Policy administration tasks. Unlike ADM files which need to be manually added to each Group Policy object, ADMX files are made available to the Group Policy Editor automatically when DigitalPersona Enterprise Server 5.x is installed.

### **Pro 5.5.1 Administrative templates**

The release of DigitalPersona Pro for Enterprise 5.x included several Administrative Templates. Including:

- DPPro5Client.admx/adm
- DPPro5ClientAuthPol.admx/adm
- DPPro5ClientKiosk.admx/adm
- DPPro5EvForwarding.admx/adm
- DPPro5Root.admx/adm
- DPPro5IDServer.admx/adm
- DPPro5Root.admx/adm
- DPPasswordManager.admx/adm
- DPPrivacyManager.admx/adm
- DPPro5Server.admx/adm

#### **As a convenience the installation of Pro Enterprise 5.x Server automatically:**

- Copies .adm files into %systemroot%\inf
- Copies .admx files into %systemroot%\PolicyDefinitions on Server 2008
- Copies .adml files into %systemroot%\PolicyDefinitions\<appropriate language folders> on Server 2008

Note: If using the optional Microsoft central policy definitions store, as the Pro server install or Pro Admin Tools install is unaware of this, the Admin will have to manually copy .admx/l files to

\\FQDN\SYSVOL\FQDN\policies\PolicyDefinitions as appropriate.

#### **As a convenience the installation of Pro Enterprise client automatically:**

- Copies .adm files into %systemroot%\inf
- Copies .admx files into %systemroot%\PolicyDefinitions on Win 7 and Server 2008 machines
- Copies .adml files into %systemroot%\PolicyDefinitions\<appropriate language folders> on Win 7 and Server 2008 machines

#### **To use AD Users and Computers and GPMC on machines where Pro Server is not installed:**

1. Install the Microsoft Admin Pack (Note: This step is for Domain Controllers where Pro Enterprise Server 5.x is not installed).
2. Install the Pro Enterprise 5.x Administrative Tools – specifically choose custom and ensure the ADUC and/or GPMC snap-in extensions is installed.
3. Manually copy .adm files into %systemroot%\inf\<appropriate language specific folders>.
4. Manually copy .admx files into %systemroot%\PolicyDefinitions\<appropriate language specific folders> on Win 7 and Server 2008 machines.
5. If needed, copy .adml files into %systemroot%\PolicyDefinitions\<appropriate language specific folders> on Win 7 and Server 2008 machines.

#### **Important note on Pro 3.x template compatibility:**

The presence of a 3.x and previous version multifactor authentication GPO policy setting may cause unexpected results on Pro 5.x client – such as making Windows logon impossible. Be sure to return 3.x and previous version multifactor authentication GPO policy settings to 'not defined' and re-do these settings as appropriate in the 4.x, or preferably 5.x policies, prior to deploying Pro 5.x clients.



# Server Hardware or Software Changes with Pro in Place

## Scenario:

If you are working with an existing production AD Forest and AD Domain with Pro 5.x in place and are:

- Refreshing Domain Controller (DC) hardware
- Upgrading DC Operating System (ex. 2000 or 2003 to 2008 Server)
- Adding additional DCs and then decommissioning older DCs

Please follow the recommendations detailed below to ensure minimal service interruption

## Stored in AD:

- AD Schema modifications made by the Pro Enterprise AD Schema Extension wizard (*Run once per Forest during the initial installation*)
- Permission changes made to the AD Domain by the Pro Enterprise AD Domain Config wizard (*Run once per Domain during the initial installation*)
- DigitalPersona Pro **licenses** (*Done once per Domain*)
- DigitalPersona GPO .adm files and actual **GPO settings**
- Users' registered fingerprint templates
- Users' Password Manager Pro (PMP) **credentials**
- If the Password Manager Pro share is in the AD SYSVOL then this too is stored in AD

**We strongly recommend all Pro Enterprise server, client and admin tool software be at the most current versions.**

**Most day to day Pro Enterprise functionality will be available even without a Pro Server being accessible due to Pro client caching functionality** (by default, caching is enabled) **however:**

- Users will NOT be able to manage fingerprints as these are stored in AD and this is done through the Server
- Users will NOT be able to use a fingerprint to access DigitalPersona Workstations they've never used a fingerprint to log onto before (Because they're not in the local cache, as they would had to have used it before to be in the cache)

**How can one test a new Pro Enterprise Server?** Stop the Authentication Service on all the Pro Servers not being tested and then try managing fingerprints from a Pro client. If you get the warning message stating that changes made will be stored locally only, then the Pro client is not properly communicating with the Pro Server. If you can for example, add a new fingerprint without receiving the warning message, then the Server is accessible and working. You can also see the Pro Server is working by using the Pro User Query Admin Tool to log to file and then view the log looking for an entry detailing a user with newly registered fingerprints or by looking at user's last modified timestamps.

## Gracefully remove Pro Server when you decommission a DC running Pro Server

Note that it is important to gracefully remove Pro Server when you decommission a DC running Pro Server. The graceful removal of Pro Server does a few things, including:

- Removing dynamic DNS service records which Pro clients use to find Pro Server
- Removing metadata from AD about the Pro Server (which if left behind can cause some issues)

## Example:

You have a fully functional Pro 5.x deployment with two DCs, one of which is an older box running Windows Server. You are replacing this DC with new server hardware which will run Windows 2008 R2 Server OS.

- All fingerprints, licenses, GPOs. etc. are stored in AD
  - You're already on Pro 5.x so there is NO need to run the AD Schema extension or Domain prep again
1. Once the Windows 2008 R2 server has been promoted to a DC, install DigitalPersona Pro Server
  2. Gracefully remove Pro from the old DC by uninstalling DigitalPersona Pro Server and then decommissioning the DC as planned

# Installing and Activating Pro for Enterprise Licenses

## **License Activation Manager Installation**

As soon as your Pro Enterprise 5.x Servers were installed you should have activated your new Pro Enterprise Server (User) licenses. Pro 5.x machine licenses, for support of Pro 5.0.x through 5.3.x clients, should have been deployed at the same time. *If you are now upgrading from Pro 4.4.3 to Pro 5.5.1 you will now need to follow the steps in this section. If you are upgrading to Pro 5.5.1 from an earlier Pro 5.x.x no license action should be required.*

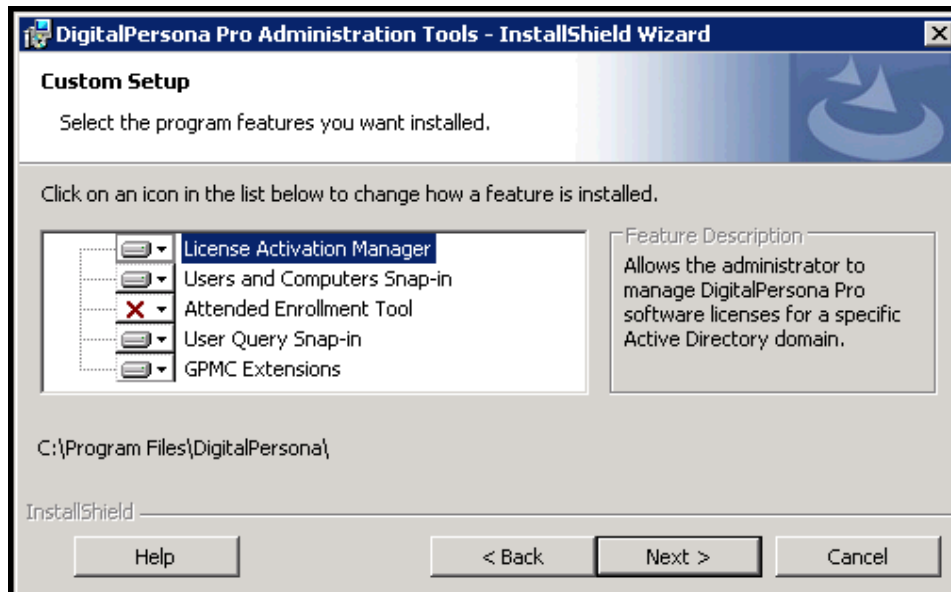
## **Pro License History**

Pro version	What consumes a USER License	Change
5.5.x	Enrollment registered AD password (for SSO), fingerprint(s), smart card, contactless card, proxy card, PIN, or Bluetooth device	<ul style="list-style-type: none"> <li>Admin can reclaim and reuse licenses for the same user and clean old license data from the local cache when delete license is used.</li> <li>Pro now provides control on how licenses are consumed: License decremented during enrollment of a card or fingerprint rather than simply when a user logs in.</li> </ul>
5.4.1	Registered AD password, fingerprint(s), smart card, contactless card, proxy card, PIN, or Bluetooth device	<ul style="list-style-type: none"> <li>Pro User Query Tool updated to report also licenses consumed due to AD password registration.</li> <li>AD User &amp; Computers User right-click to recover a license from a user – that user cannot use Pro again though</li> </ul>
5.4.0	Registered AD password, fingerprint(s), smart card, contactless card, proxy card, PIN, or Bluetooth device	<ul style="list-style-type: none"> <li>Registered AD password (i.e.: logging onto a Pro Workstation) now takes a user license.</li> <li>Machine (Workstation (Pro Workstation or Pro Kiosk Workstation) and Password Manager) licensing REMOVED.</li> </ul>
5.3.x	Registered fingerprint(s), smart card, contactless card, proxy card, PIN, or Bluetooth device	<ul style="list-style-type: none"> <li>Pro User Query Tool updated to support all existing credentials</li> <li>More client-side machine licensing management features added.</li> </ul>
5.2.x	Registered fingerprint(s), smart card, contactless card, proxy card, PIN, or Bluetooth device	<ul style="list-style-type: none"> <li>Client-side machine licensing management features added.</li> </ul>
5.0.x & 5.1.x	Registered fingerprint(s), or smart card	<ul style="list-style-type: none"> <li>Registered smart card, contactless card, proxy card, PIN, or Bluetooth device now takes a user license.</li> <li>Machine (Workstation (Pro Workstation or Pro Kiosk Workstation) and Password Manager) licensing ADDED.</li> </ul>
4.x	Registered fingerprint(s)	<ul style="list-style-type: none"> <li>N/A</li> </ul>

## **Pro 5.5.1 General User license workflow**

- Once a Pro Server (User) license has been activated, DigitalPersona Pro Enterprise Servers will manage the license pool.
- When a user registers fingerprint(s), smart card, contactless card, proxy card, PIN, or a Bluetooth device, and is authenticated by DigitalPersona Pro Enterprise Server, that user consumes one Pro Server (User) license.
- The use of an AD password with SSO, or with Password Manager managed templates, additionally consumes a Pro Server (User) license, if not already claimed.
- When a domain user is deleted, its license is returned to the pool for future use.
- When the AD Admin uses the Pro 'delete license...' option in AD Users & Computers, the license is returned to the pool for future use.

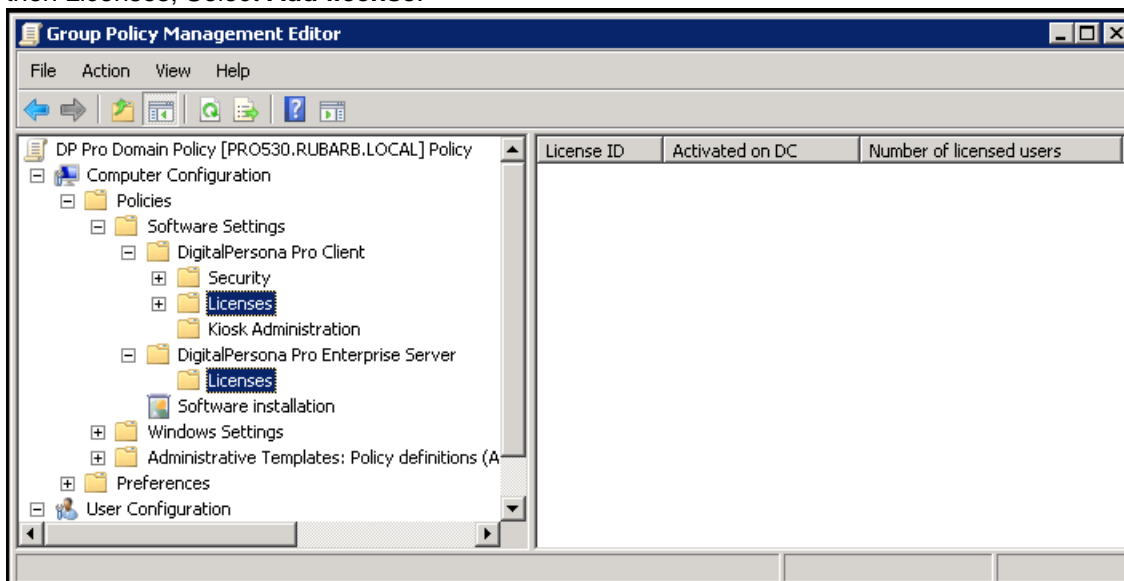
The Pro for Enterprise 5.x Administrative Tools License Activation Manager feature must be in place so as to be able to open the Microsoft Management Console snap-ins as covered in the next steps. This screenshot is of the License Activation Manager feature installed as a feature within the Admin Tools.



### Activating Pro Enterprise Server licenses

Launch the Group Policy Management Editor against a GPO linked at the AD domain level.

1. Navigate to Computer Configuration, Policies, Software Settings, DigitalPersona Pro Enterprise Server, then Licenses; Select **Add license**.



2. On the Activation Mode selection screen use the default over the Internet option. **If your Pro Server is protected by a firewall, you may have to allow http and https access to solo.digitalpersona.com.** If you can't go this route, see the proxy activation and Internet connectivity requirements sections below.
3. Use the hyperlink-style button within the wizard to toggle between being able to enter licenses via a license file or via a more granular License ID method
4. If using the bundle license file method: Browse to and select the License Activation (.dplic) file provided earlier by DigitalPersona, then click Open. (Ensure this is a Pro 5.x .dplic and not from Pro 4.x.)
5. If using the License ID method: Enter the License ID
6. Enter the license password provided earlier by DigitalPersona and then click Next.
7. Upon successful activation, a confirmation dialog will display. The number of activated seats in Enterprise User license is available for viewing here too.

### Proxy Activation

DigitalPersona Pro Enterprise Servers that are not connected to the internet may be activated by the Proxy Activation method. In the DigitalPersona Activation Wizard select the option to activate the software from another computer. The wizard will guide you through the following steps:

1. Entering the License ID and password.
2. Saving the activation data to a file (leave the wizard open)

3. Opening the file on a different computer that has internet access

4. Entering the generated registration code in the wizard on the computer being licensed.

After activation, licensing information is shown in Active Directory. Licenses will be activated and available for use by DigitalPersona Pro Enterprise components and users.

***DigitalPersona Licensing Server Access***

You can access the DigitalPersona licensing server at <https://solo.digitalpersona.com/solo/customers>, this portal provides a very limited view into your license use.

***Pro Enterprise Client Machine licenses***

With Pro 5.4.x machine licenses were no longer required for DigitalPersona Pro Workstation and Pro Kiosk. The client license node remains for backwards compatibility to support Pro 5.0.x through 5.3.x clients.

# Extended Server Policy Module (ESPM)

## What is ESPM?

ESPM is add-on module which provides additional user based authentication configuration features. The core Pro product offers machine based control of authentication policies. ESPM extends Pro with additional user based authentication policies. These additional user based policies are a separate purchasable product. ESPM was a Pro 4.x optional add-on. ESPM did not exist for earlier releases of Pro 5.x – but as of Pro 5.3.0 ESPM returned! **To obtain the Pro 5.5.0 ESPM contact DigitalPersona Sales.**

For existing Pro 4.x customers, your Account Manager will provide the 5.5.0 version of ESPM at no cost, so as to provide parity in going from Pro 4.x to Pro 5.x. Maintenance and Support customers who purchased the Pro for Active Directory 4.x ESPM module may request their Pro Enterprise ESPM module by contacting [dporders@digitalpersona.com](mailto:dporders@digitalpersona.com).

## Differences between Pro 4.4.3 plus ESPM and Pro 5.5.0 plus ESPM:

There are many improvements and new features in Pro 5.x. Due to architectural changes and a more robust modular authentication design, the Pro 4.x ESPM feature settings are not compatible with the Pro 5.x feature settings.

## Notes on PINs (Personal Identification numbers):

- The Pro 5.x PIN is a STAND-ALONE PIN. It functions only as a secondary credential. It is manageable via Pro 5.4.1 and higher workstations **and** via the Pro 5.3.0 and higher Attended Enrollment tool
- The Pro 4.x PIN is a Fingerprint PIN and is manageable only via Pro 4.x workstations
- Smart cards usually have their own, separate, PINs
- PINs are generally deployed as an anti-spoofing measure

## How to upgrade from Pro 4.4.3 plus ESPM to Pro 5.5.0 plus ESPM:

1. If you did not have ESPM with Pro 4.x, or if no users are using any ESPM features then there is nothing else to do insofar as ESPM is concerned with this upgrade
2. Determine if you have any users with Pro 4.4.3 ESPM settings set. There are two main ways to do this:
  - a. Manually check all user's DigitalPersona properties tab
  - b. Contact your Account Manager or Technical Support and with their assistance run the SearchDPUsersinAD.vbs command line tool to return a report of all Pro 4.x ESPM flags set
3. For each ESPM setting there are specific upgrade related actions
  - a. Flag: *Windows Password Only*  
**Actions: None** – user knows and is using their AD password on Pro 4.x Workstations, and will continue to do this on Pro 5.x workstations
  - b. Flag: *Must Provide Fingerprint*  
**Actions: None** – user has and is using their fingerprint registered in AD on Pro 4.x Workstations, and will continue to do this on Pro 5.x workstations
  - c. Flag: *Randomize Password*  
**Actions: It is imperative that you complete the upgrade of all DigitalPersona Pro v4.4.3 Servers to Pro for Enterprise v5.5.0 Server prior to managing any Pro Password Randomization settings. In other words, don't change Pro Password Randomization settings during the AD and Pro server upgrade steps.**
  - d. Flag: *Must Provide PIN*  
**Actions: An Pro 5.3.0 (or higher) administrative workstation must be prepared with the Pro 5.3.0 (or higher) Attended Enrollment Registration wizard; the target user will have to use Attended Fingerprint Registration to set their Pro 5.x PIN. It is highly recommended that the same PIN be used. (Note that when on a Pro 4.x machine the "Pro 4.x PIN" will be used, and when on a Pro 5.x machine the "Pro 5.x PIN" will be used. Both PINs are stored in AD for the User; they are different formats and the one compatible with the Pro client will be used.**
  - e. Flags: *Randomize Password and Must Provide PIN*  
**Actions: Same as the Must Provide PIN actions above, but additionally in the Attended Enrollment Registration the user must click the re-randomize password button/link.**

# Upgrade from 5.2.x, 5.3.x, 5.4.x, and 5.5.0 Server and Kiosk

## If Your Current Version Is:

Pro Server versions	5.2.0, 5.2.1, 5.2.3, 5.2.4, 5.3.0, 5.4.0, 5.4.1, 5.5.0
Pro Kiosk versions	5.2.0, 5.2.1, 5.2.3, 5.2.4, 5.3.0, 5.4.0, 5.4.1, 5.5.0

## Data Migration Notes:

<i>Application/Policy</i>	<i>Changes</i>	<i>Actions/Notes</i>
<b>Password Manager Pro managed logons</b>	All existing Password Manager will continue to work with Internet Explorer and Firefox after upgrading to DigitalPersona Pro Enterprise Kiosk 5.5.1.	No action is required
<b>Password Manager personal logons (formerly Web site One Touch Internet (OTI) logon screens)</b>	All existing Password Manager personal logons will continue to work with Internet Explorer and Firefox after upgrading to DigitalPersona Pro Enterprise Kiosk 5.5.1.  NOTE: The DigitalPersona workstation upgrade procedure detailed below is designed for a well-connected LAN. To ensure a smooth upgrade of Password Manager user logons , during the client upgrade phase of your deployment, all workstations should have LAN connectivity to DigitalPersona Pro Enterprise Server,	It is recommended that you backup Pro Enterprise Workstation data prior to beginning the upgrade.

## Recommended Upgrade Steps:

1. Run the Domain Configuration by double-clicking **DPPDomainConfig.exe**, which is located in the AD Domain Configuration folder in the Server installation package and follow the wizard prompts.
2. The Pro domain prep will again create the default "Register / delete fingerprints" and "Kiosk membership" privileges at the domain level which then inherit down to AD Users – if any customizations had been made (this is generally NOT the case) in the existing earlier Pro deployments these privileges will need to be revisited and fixed.
3. Uninstall all DigitalPersona Pro Enterprise Servers using by using the **Add or Remove Programs** item or the **Programs and Features** applet located in the Control Panel.
4. Double-click **Setup.exe** to run the DigitalPersona Pro Enterprise Server 5.5.1 Installation Wizard, located in the Install folder of the DigitalPersona Pro Enterprise Server installation package.
5. The last screen of the server setup is an information one simply reminding you of the need for licenses.
6. Upgrade all existing DigitalPersona Pro Enterprise Kiosk workstations to DigitalPersona Pro Enterprise Kiosk by launching **Setup.exe** located in the Pro Kiosk folder of the DigitalPersona Pro Enterprise package.
7. Install the DigitalPersona Pro Enterprise Administrative templates to provide access to various policies and settings used in configuring the DigitalPersona Pro Enterprise environment. File names of recommended templates include DPPRo5Root, DPPRo5Server, DPPRo5Client, and DPPRo5ClientAuthpol. On Windows Server 2003, the default folder for administrative templates is C:\Windows\inf. On Windows Server 2008, the default folder for administrative templates is C:\Windows\PolicyDefinitions.
8. Next, **ensure the 'Perform fingerprint identification on server' policy, required by DigitalPersona Kiosk client v5.x, is still enabled.** For additional information regarding fingerprint identification, please consult the DigitalPersona Pro Enterprise Administrator's Guide.
9. If needed, install the DigitalPersona Pro Enterprise licenses using the DigitalPersona License Activation tool. For additional information on installing and activating DigitalPersona Pro Enterprise licenses, **please review the section of this document entitled *Installing and Activating Pro for Enterprise Licenses.***
10. Deploy additional DigitalPersona Pro Enterprise Kiosk workstations as needed.

# Upgrade from 5.2.x, 5.3.x, 5.4.x and, 5.5.0 Server and Workstation

## If Your Current Version Is:

Pro Server versions	5.2.0, 5.2.1, 5.2.2, 5.2.3, 5.2.4, 5.3.0, 5.4.0, 5.4.1, 5.5.0
Pro Workstation versions	5.2.0, 5.2.1, 5.2.3, 5.2.4, 5.3.0, 5.4.0, 5.4.1, 5.5.0

## Data Migration Notes:

<b>Application/Policy</b>	<b>Changes</b>	<b>Actions/Notes</b>
<b>Password Manager Pro managed logons</b>	All existing Password Manager will continue to work with Internet Explorer and Firefox after upgrading to DigitalPersona Pro Enterprise Workstation 5.5.0.	No action is required
<b>Password Manager user logons (formerly Web site One Touch Internet (OTI) logon screens)</b>	<p>All existing Password Manager (web site OTI logon screens) will continue to work with Internet Explorer after upgrading to DigitalPersona Pro Enterprise Workstation 5.5.1. To ensure Firefox compatibility, fingerprint logons created prior to 4.3.0 should be deleted and recreated.</p> <p>NOTE: The DigitalPersona workstation upgrade procedure detailed below is designed for a well-connected LAN. To ensure a smooth upgrade of Password Manager user logons (OTI logon screens), during the client upgrade phase of your deployment, all workstations should have LAN connectivity to DigitalPersona Pro Enterprise Server.</p>	It is recommended that you backup Pro Enterprise Workstation data prior to beginning the upgrade.

## Recommended Upgrade Steps:

1. Run the Domain Configuration by double-clicking **DPPDomainConfig.exe**, which is located in the AD Domain Configuration folder in the Server installation package and follow the wizard prompts.
2. The Pro domain prep will again create the default "Register / delete fingerprints" and "Kiosk membership" privileges at the domain level which then inherit down to AD Users – if any customizations had been made (this is generally NOT the case) in the existing earlier Pro deployments these privileges will need to be revisited and fixed.
3. Uninstall all DigitalPersona Pro Enterprise Servers using by using the **Add or Remove Programs** item or the **Programs and Features** applet located in the Control Panel.
4. Double-click **Setup.exe** to run the DigitalPersona Pro Enterprise Server 5.5.1 Installation Wizard, located in the Install folder of the DigitalPersona Pro Enterprise Server installation package.
5. The last screen of the server setup is an information one simply reminding you of the need for licenses.
6. Upgrade all existing DigitalPersona Pro Enterprise Workstations to DigitalPersona Pro Enterprise Workstation by launching **Setup.exe** located in the Pro Workstation folder of the DigitalPersona Pro Enterprise package.
  - NOTE: The DigitalPersona workstation upgrade procedure detailed below is designed for a well-connected LAN. To ensure a smooth upgrade of DigitalPersona Workstation, during the client upgrade phase of your deployment, all workstations should have LAN connectivity to DigitalPersona Pro Enterprise Server.
7. Install the DigitalPersona Pro Enterprise Administrative templates to provide access to various policies and settings used in configuring the DigitalPersona Pro Enterprise environment. File names of recommended templates include DPPRo5Root, DPPRo5Server, DPPRo5Client, and DPPRo5ClientAuthpol. On Windows Server 2003, the default folder for administrative templates is

C:\Windows\inf. On Windows Server 2008, the default folder for administrative templates is C:\Windows\PolicyDefinitions.

8. If needed, install the DigitalPersona Pro Enterprise licenses using the DigitalPersona License Activation tool. For additional information on installing and activating DigitalPersona Pro Enterprise licenses, **please review the section of this document entitled *Installing and Activating Pro for Enterprise Licenses*.**
9. Deploy additional DigitalPersona Pro Enterprise Workstations as needed.



# Upgrade from 4.4.3 Server and 4.4.3 Kiosk

## If Your Current Version Is:

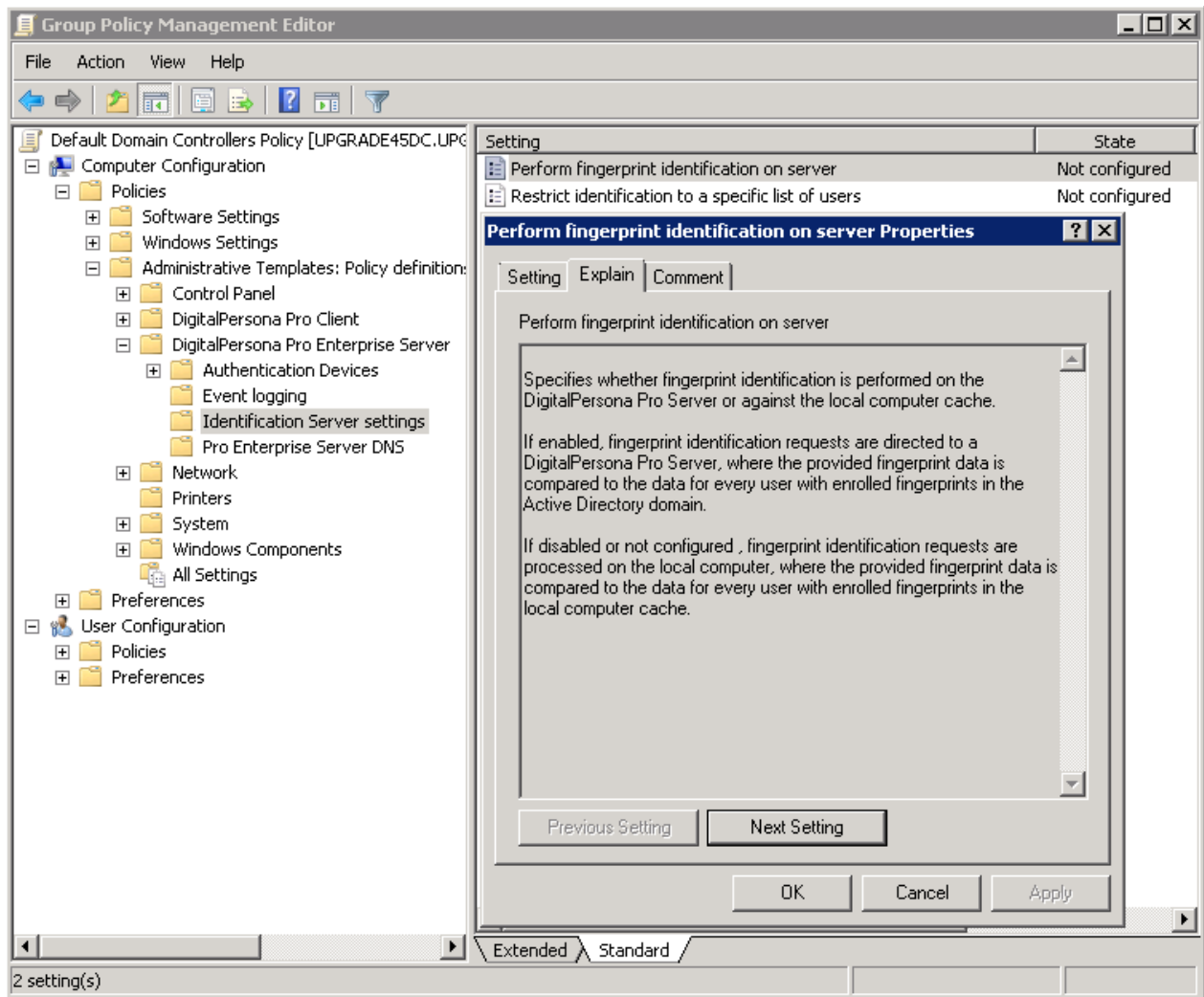
DigitalPersona Pro Server version    4.4.3  
 DigitalPersona Pro Kiosk version    4.4.3

## Data Migration Notes:

<b>Application/Policy</b>	<b>Changes</b>	<b>Actions/Notes</b>
<b>Password Manager Pro managed logons (formerly One Touch SignOn (OTS) Templates)</b>	To ensure compatibility between Internet Explorer, Firefox and DigitalPersona Pro Enterprise 5.x, new templates should be created using Internet Explorer and the DigitalPersona Password Manager Pro 5.5.1 application. A small percentage of the existing Password Manager Pro managed logons (formerly called OTS templates) may not be compatible with DigitalPersona Password Manager 5.5.1 and will need to be recreated.	In the event a template created with the Pro 4.x One Touch SignOn Administration tool is not compatible with Password Manager Pro 5.5.1 and needs to be recreated, please note that the stored secrets for the deleted template will be lost, requiring users to re-enter credentials (OTS Field Catalog referencing templates excepted).
<b>Pro User Policies</b>	These policies are supported in DigitalPersona Pro Enterprise 5.3.0 and higher (not supported in Pro 5.0.0 to 5.2.4)	See the <b>Extended Server Policy Module (ESPM)</b> section of this document

## Recommended Upgrade Steps:

1. Extend the Active Directory Schema, by double-clicking **DPSchemaExt.exe**, which is located in the AD Schema Extension folder in the Server installation package and follow the wizard prompts.
2. Run the Domain Configuration by double-clicking **DPDomainConfig.exe**, which is located in the AD Domain Configuration folder in the Server installation package and follow the wizard prompts.
3. The Pro domain prep will again create the default "Register / delete fingerprints" and "Kiosk membership" privileges at the domain level which then inherit down to AD Users – if any customizations had been made (this is generally NOT the case) in the existing earlier Pro deployments these privileges will need to be revisited and fixed.
4. This step should be performed on all DigitalPersona Pro 4.4.3 servers. Remove DigitalPersona Server 4.4.3 from the server you wish to upgrade by using the 'Add or Remove Programs' applet or the 'Programs and Features' applet in the Control Panel. Next, double-click **Setup.exe** to run the DigitalPersona Pro Enterprise Server Installation Wizard, located in the Install folder of the DigitalPersona Pro Enterprise Server installation package.
5. Install the DigitalPersona Pro Enterprise 5.x licenses using the DigitalPersona License Activation tool. For additional information on installing and activating DigitalPersona Pro Enterprise licenses, **please review the section of this document entitled *Installing and Activating Pro for Enterprise Licenses*.**
6. Install the DigitalPersona Pro Enterprise Administrative templates to provide access to various policies and settings used in configuring the DigitalPersona Pro Enterprise environment. File names of recommended templates include DPPRo5Root, DPPRo5Server, DPPRo5Client, and DPPRo5ClientAuthpol. On Windows Server 2003, the default folder for administrative templates is C:\Windows\inf. On Windows Server 2008, the default folder for administrative templates is C:\Windows\PolicyDefinitions.
7. Next, to enable fingerprint identification, configure the DigitalPersona Pro Enterprise Server Administrative Template Identification Server settings to '**Perform fingerprint identification on server**' by setting the GPO to **Enabled**.



Enabling the fingerprint identification feature is required by DigitalPersona Kiosk client v5.x. For additional information regarding fingerprint identification, please consult the DigitalPersona Pro Enterprise Administrator's Guide.

8. Upgrade all existing DigitalPersona Pro Kiosk 4.4.3.clients to DigitalPersona Pro Enterprise Kiosk 5.5.1.
9. Deploy additional DigitalPersona Pro Enterprise 5.5.1 Kiosk Workstations if needed.

# Upgrade from 4.4.3 Server and 4.4.3 Workstation

## If Your Current Version Is:

Pro Server versions	4.4.3
Pro Workstation versions	4.4.3

## Data Migration Notes:

<b>Application/Policy</b>	<b>Changes</b>	<b>Actions/Notes</b>
<b>Password Manager Pro managed logons (formerly One Touch SignOn (OTS) Templates)</b>	To ensure compatibility between Internet Explorer, Firefox and DigitalPersona Pro Enterprise 5.x, new templates should be created using Internet Explorer and the DigitalPersona Password Manager Pro 5.5.1 application. A small percentage of the existing Password Manager Pro managed logons (formerly called OTS templates) may not be compatible with DigitalPersona Password Manager 5.5.1 and will need to be recreated.	In the event a template created with the Pro 4.x One Touch SignOn Administration tool is not compatible with Password Manager Pro 5.5.1 and needs to be recreated, please note that the stored secrets for the deleted template will be lost, requiring users to re-enter credentials.
<b>Password Manager user logons (formerly Web site One Touch Internet (OTI) logon screens)</b>	All existing Password Manager (web site OTI logon screens) will continue to work with Internet Explorer after upgrading to DigitalPersona Pro Enterprise Workstation 5.5.1. To ensure Firefox compatibility, fingerprint logons created prior to 4.3.0 should be deleted and recreated.  NOTE: The DigitalPersona workstation upgrade procedure detailed below is designed for a well-connected LAN. To ensure a smooth upgrade of Password Manager user logons (OTI logon screens), during the client upgrade phase of your deployment, all workstations should have LAN connectivity to DigitalPersona Pro Enterprise Server.	
<b>Pro User Policies</b>	These policies are supported in DigitalPersona Pro Enterprise 5.4.1 and higher (not supported in Pro 5.0.0 to 5.2.4)	See the <b>Extended Server Policy Module (ESPM)</b> section of this document

## Recommended Upgrade Steps:

1. Extend the Active Directory Schema, by double-clicking **DPSchemaExt.exe**, which is located in the AD Schema Extension folder in the Server installation package and follow the wizard prompts.
2. Run the Domain Configuration by double-clicking **DPDomainConfig.exe**, which is located in the AD Domain Configuration folder in the Server installation package and follow the wizard prompts.
3. The Pro domain prep will again create the default "Register / delete fingerprints" and "Kiosk membership" privileges at the domain level which then inherit down to AD Users – if any customizations had been made (this is generally NOT the case) in the existing earlier Pro deployments these privileges will need to be revisited and fixed.

4. This step should be performed on all DigitalPersona Pro 4.4.3 servers. Remove DigitalPersona Server 4.4.3 from the server you wish to upgrade by using the 'Add or Remove Programs' applet or the 'Programs and Features' applet in the Control Panel. Next, double-click Setup.exe to run the DigitalPersona Pro Enterprise Server Installation Wizard, located in the Install folder of the DigitalPersona Pro Enterprise Server installation package.
5. The last screen of the server setup is an information one simply reminding you of the need for licenses.
6. Install the DigitalPersona Pro Enterprise 5.x licenses using the DigitalPersona License Activation tool. For additional information on installing and activating DigitalPersona Pro Enterprise licenses, **please review the section of this document entitled *Installing and Activating Pro for Enterprise Licenses*.**
7. Install the DigitalPersona Pro Enterprise Administrative templates to provide access to various policies and settings used in configuring the DigitalPersona Pro Enterprise environment. File names of recommended templates include DPPRo5Root, DPPRo5Server, DPPRo5Client, and DPPRo5ClientAuthpol. On Windows Server 2003, the default folder for administrative templates is C:\Windows\inf. On Windows Server 2008, the default folder for administrative templates is C:\Windows\PolicyDefinitions.
8. Upgrade all existing DigitalPersona Pro Workstation 4.4.3.clients to DigitalPersona Pro Enterprise Workstation 5.5.1.
  - NOTE: The DigitalPersona workstation upgrade procedure detailed below is designed for a well-connected LAN. To ensure a smooth upgrade of DigitalPersona Workstation, during the client upgrade phase of your deployment, all workstations should have LAN connectivity to DigitalPersona Pro Enterprise Server,
9. Deploy additional DigitalPersona Pro Enterprise 5.5.1 workstations as needed.

# Upgrade from 5.1.x Server and 5.1.x Kiosk

## If Your Current Version Is:

Pro Server versions	5.1.x
Pro Kiosk versions	5.1.x

## Data Migration Notes:

<i>Application/Policy</i>	<i>Changes</i>	<i>Actions/Notes</i>
<b>Password Manager Pro managed logons</b>	All existing Password Manager will continue to work with Internet Explorer and Firefox after upgrading to DigitalPersona Pro Enterprise Kiosk 5.5.1.	No action is required
<b>Password Manager personal logons (formerly Web site One Touch Internet (OTI) logon screens)</b>	<p>All existing Password Manager personal logons will continue to work with Internet Explorer and Firefox after upgrading to DigitalPersona Pro Enterprise Kiosk 5.5.1.</p> <p>NOTE: The DigitalPersona workstation upgrade procedure detailed below is designed for a well-connected LAN. To ensure a smooth upgrade of Password Manager user logons , during the client upgrade phase of your deployment, all workstations should have LAN connectivity to DigitalPersona Pro Enterprise Server,</p>	It is recommended that you backup Pro Enterprise Workstation data prior to beginning the upgrade.

## Recommended Upgrade Steps:

- Run the Domain Configuration by double-clicking **DPDomainConfig.exe**, which is located in the AD Domain Configuration folder in the Server installation package and follow the wizard prompts.
  - NOTE: Running DPDomainConfig.exe will return to default the "Register / delete fingerprints" and "Kiosk membership" privileges – if any customizations had been made (this is generally NOT the case) in the earlier Pro deployments, these privileges will need to be revisited and set once again.
- Uninstall all DigitalPersona Pro Enterprise 5.1.x Servers using by using the **Add or Remove Programs** item or the **Programs and Features** applet located in the Control Panel.
- Double-click **Setup.exe** to run the DigitalPersona Pro Enterprise Server 5.3.x Installation Wizard, located in the Install folder of the DigitalPersona Pro Enterprise Server installation package.
- The last screen of the server setup is an information one simply reminding you of the need for licenses.
- Upgrade all existing DigitalPersona Pro Enterprise 5.1.x Kiosk workstations to DigitalPersona Pro Enterprise Kiosk by launching **Setup.exe** located in the Pro Kiosk folder of the DigitalPersona Pro Enterprise package.
- Install the DigitalPersona Pro Enterprise Administrative templates to provide access to various policies and settings used in configuring the DigitalPersona Pro Enterprise environment. File names of recommended templates include DPPRo5Root, DPPRo5Server, DPPRo5Client, and DPPRo5ClientAuthpol. On Windows Server 2003, the default folder for administrative templates is C:\Windows\inf. On Windows Server 2008, the default folder for administrative templates is C:\Windows\PolicyDefinitions.
- Next, ensure the 'Perform fingerprint identification on server' policy, required by DigitalPersona Kiosk client v5.x, is still enabled. For additional information regarding fingerprint identification, please consult the DigitalPersona Pro Enterprise Administrator's Guide.
- If needed, install the DigitalPersona Pro Enterprise licenses using the DigitalPersona License Activation tool. For additional information on installing and activating DigitalPersona Pro Enterprise licenses, **please review the section of this document entitled *Installing and Activating Pro for Enterprise Licenses*.**
- Deploy additional DigitalPersona Pro Enterprise Kiosk workstations as needed.

# Upgrade from 5.1.x Server and 5.1.x Workstation

## If Your Current Version Is:

Pro Server versions                    5.1.x  
Pro Workstation versions            5.1.x

## Data Migration Notes:

<b>Application/Policy</b>	<b>Changes</b>	<b>Actions/Notes</b>
<b>Password Manager Pro managed logons</b>	All existing Password Manager will continue to work with Internet Explorer and Firefox after upgrading to DigitalPersona Pro Enterprise Workstation 5.5.1.	No action is required
<b>Password Manager user logons (formerly Web site One Touch Internet (OTI) logon screens)</b>	All existing Password Manager (web site OTI logon screens) will continue to work with Internet Explorer after upgrading to DigitalPersona Pro Enterprise Workstation 5.5.1. To ensure Firefox compatibility, fingerprint logons created prior to 4.3.0 should be deleted and recreated.  NOTE: The DigitalPersona workstation upgrade procedure detailed below is designed for a well-connected LAN. To ensure a smooth upgrade of Password Manager user logons (OTI logon screens), during the client upgrade phase of your deployment, all workstations should have LAN connectivity to DigitalPersona Pro Enterprise Server.	
<b>Password Manager personal logons (formerly Web site One Touch Internet (OTI) logon screens)</b>	All existing Password Manager personal logons will continue to work with Internet Explorer and Firefox after upgrading to DigitalPersona Pro Enterprise Workstation 5.5.1.	It is recommended that you backup Pro Enterprise Workstation data prior to beginning the upgrade.

## Recommended Upgrade Steps:

1. Run the Domain Configuration by double-clicking **DPDomainConfig.exe**, which is located in the AD Domain Configuration folder in the Server installation package and follow the wizard prompts.
  - NOTE: Running DPDomainConfig.exe will return to default the "Register / delete fingerprints" and "Kiosk membership" privileges – if any customizations had been made (this is generally NOT the case) in the earlier Pro deployments, these privileges will need to be revisited and set once again.
2. Uninstall all DigitalPersona Pro Enterprise 5.1.x Servers using by using the **Add or Remove Programs** item or the **Programs and Features** applet located in the Control Panel.
3. Double-click **Setup.exe** to run the DigitalPersona Pro Enterprise Server 5.5.1 Installation Wizard, located in the Install folder of the DigitalPersona Pro Enterprise Server installation package.
4. The last screen of the server setup is an information one simply reminding you of the need for licenses.

5. Upgrade all existing DigitalPersona Pro Enterprise 5.1.x Workstations to DigitalPersona Pro Enterprise Workstation by launching **Setup.exe** located in the Pro Workstation folder of the DigitalPersona Pro Enterprise package.
  - NOTE: The DigitalPersona workstation upgrade procedure detailed below is designed for a well-connected LAN. To ensure a smooth upgrade of DigitalPersona Workstation, during the client upgrade phase of your deployment, all workstations should have LAN connectivity to DigitalPersona Pro Enterprise Server,
6. Install the DigitalPersona Pro Enterprise Administrative templates to provide access to various policies and settings used in configuring the DigitalPersona Pro Enterprise environment. File names of recommended templates include DPPRo5Root, DPPro5Server, DPPro5Client, and DPPRo5ClientAuthpol. On Windows Server 2003, the default folder for administrative templates is C:\Windows\inf. On Windows Server 2008, the default folder for administrative templates is C:\Windows\PolicyDefinitions.
7. If needed, install the DigitalPersona Pro Enterprise licenses using the DigitalPersona License Activation tool. For additional information on installing and activating DigitalPersona Pro Enterprise licenses, **please review the section of this document entitled *Installing and Activating Pro for Enterprise Licenses*.**
8. Deploy additional DigitalPersona Pro Enterprise 5.5.1 Workstations as needed.

# Upgrading Stand Alone Workstations

## Upgrading Stand Alone DigitalPersona Pro 4.4.3 Workstations

To ensure the compatibility of Password Manager Pro (formerly called One Touch SignOn) templates across all DigitalPersona Pro Workstations and to maximize the utilization of the new features available in DigitalPersona Pro Workstation 5.x, we recommend that all DigitalPersona Pro Workstations be upgraded to .

<i>Data Migration Notes</i>		
<i>Application/Policy</i>	<i>Changes</i>	<i>Actions/Notes</i>
<b>Password Manager personal logons (formerly Web site One Touch Internet (OTI) logon screens)</b>	All existing web site Password Manager personal logons (OTI logon screens) will be lost.	As there is no export feature in Pro 4.4.3 Workstation, prior to upgrading, please review each logon, document your credentials and store them in a secure location. Once your installation of Pro Enterprise client is complete, please re-enter the credentials for your logons.

### To upgrade existing standalone to DigitalPersona Pro Workstation v4.4.3 to Pro Enterprise Workstation 5.5.1:

1. Upgrade all existing DigitalPersona Pro 4.4.3 Workstations to DigitalPersona Pro Enterprise Workstation 5.5.1 by launching **Setup.exe** located in the Pro Workstation folder of the DigitalPersona Pro Enterprise 5.5.1 package.
2. Optionally, you can remove previously added DigitalPersonaProWksta.adm from the Local Computer Policy and add the new **DPPro5Client** administrative template.

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## Upgrading Stand Alone DigitalPersona Pro Enterprise 5.x.x Workstations

Standalone upgrades of DigitalPersona Pro Enterprise 5.x.x to version 5.5.1 should present no significant issues, however it is recommended that you backup each workstation prior to upgrade. For additional information on backup procedures, please consult the Administrator's guide.

<i>Data Migration Notes</i>		
<i>Application/Policy</i>	<i>Changes</i>	<i>Actions/Notes</i>
<b>Password Manager personal logons</b>	All existing Password Manager logons will continue to work with Internet Explorer and Firefox after upgrading to DigitalPersona Pro Enterprise Workstation 5.5.1.	It is recommended that you backup Pro Enterprise Workstation data prior to beginning the upgrade.

### To upgrade existing standalone to DigitalPersona Pro Enterprise Workstation v5.x.x to Pro Enterprise Workstation 5.5.1:

1. Upgrade all existing DigitalPersona Pro Enterprise 5.x.x Workstations to DigitalPersona Pro Enterprise Workstation 5.5.1 by launching **Setup.exe** located in the Pro Workstation folder of the DigitalPersona Pro Enterprise 5.5.1 package.



## Re-Enrolling Users' Fingerprints

As a general, low priority, best practice, re-registering selected users' fingerprints is recommended. Re-registering users whose fingerprints have changed over time will decrease false rejects and reduce the need to raise your domain's FAR (False Accept Rate.)

Users whose fingerprints have changed over time include:

- People who work with abrasive materials or solutions and whose fingerprints are damaged or worn down by this work
- Fingerprints significantly change their features for persons over around 60 years old

The Pro User Query Tool can be used to generate a report of all users with fingerprints registered. When logged to file this can then be viewed as a tab delimited spreadsheet. There is a column for date fingerprint last modified on, which used in conjunction with the select user types above, can determine who you request re-register their fingerprints.

## How do I increase the storage that is used for "Secrets"

If your original Pro for Active Directory installation was with a release earlier than 4.3.0, the storage space allotted for storing "Secrets," should be increased.

To increase the storage space for Secrets, make the following change on the domain controller where DigitalPersona Pro Server is installed. ADSI Edit (part of the Windows Server Support Tools) must also be installed.

1. Log on to the computer with an account that has rights to modify the Active Directory schema.
2. Navigate to %Program Files%\Support Tools, and then double-click **adsiedit.msc**.
3. Expand the Schema, and then click CN=Schema,CN=Configuration,DC=domain\_name,DC=com
4. In the **Details** pane, right-click CN=dp-User-Private-Data, and then click **Properties**.
5. Double-click **rangeUpper**.
6. Type a new appropriate upper range for the attribute. The recommended value is 131072.
7. Click **OK**, and then click **OK** again.