

DigitalPersona® Altus AD

Version 1.x

Migration Guide



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Contents

- Migration** **4**
- Introduction 4
- Migration overview 4
- Migration steps 5
 - 1 - Create and test your Migration/Rollback Plan 5
 - 2 - Extend the Active Directory Schema 5
 - 3 - Configure the domain 6
 - 4 - Backup system state 6
 - 5 - Install Altus AD Servers 7
 - 6 - Transfer Pro policies to Altus AD 8
 - 7 - Replace DigitalPersona Administration Tools 11
 - 8 - Install new client software 11
 - 9 - Clear Pro policies from AD 12
- Pro/Altus AD feature comparison** **13**
- Clearing Altus policies from Active Directory** **16**

Introduction

The purpose of this document is to provide the administrator with a general guide to migrating from Crossmatch™ DigitalPersona® Pro Enterprise 5.5.1 to DigitalPersona Altus AD 1.x or above. Migration is supported from DigitalPersona Pro for Enterprise, version 5.5.1 or above only.

This guide addresses the most basic scenario:

- A single domain with two domain controllers
- A DigitalPersona Pro Server, version 5.5.1 or above, is installed on each domain controller
- All DigitalPersona Pro clients are version 5.5.1 or above.
- The actual version of DigitalPersona Altus being *migrated to* is 1.1 or above.

DigitalPersona Pro versions previous to 5.5.1 cannot be migrated to DigitalPersona Altus. If you need to migrate from an earlier version, you will have to upgrade to version 5.5.1 first—or you can contact our Professional Services department for assistance.

Migration overview

We recommend that your Migration Plan should address the following minimum list of activities and procedures. Your specific environment may require additional procedures. As with any major software installation, a well thought-out and tested rollback procedure should be included.

<input checked="" type="checkbox"/>	Description	Page
<input type="checkbox"/>	1 - Create and test your Migration/Rollback Plan	5
<input type="checkbox"/>	2 - Extend the Active Directory Schema	5
<input type="checkbox"/>	3 - Configure the domain	6
<input type="checkbox"/>	4 - Backup system state	6
<input type="checkbox"/>	5 - Install Altus AD Servers	7
<input type="checkbox"/>	6 - Transfer Pro policies to Altus AD	8
<input type="checkbox"/>	7 - Replace DigitalPersona Administration Tools	11
<input type="checkbox"/>	8 - Install new client software	11
<input type="checkbox"/>	9 - Clear Pro policies from AD	12

Migration steps

1 - Create and test your Migration/Rollback Plan

Create a migration/rollback plan and fully test it in a development environment approximating your production environment before performing the migration in your production environment.

Please review the DigitalPersona Altus AD Administrator Guide and Client Guide as well as the readme.txt files included with each component in the product package, for any known issues that may affect your specific environment.

Note that some features and settings from Pro Enterprise 5.5.1 are not present in Altus AD 1.1.

2 - Extend the Active Directory Schema

DigitalPersona Altus AD provides a wizard that will automatically upgrade the DigitalPersona schema. The schema extension is backward compatible with the Pro 5.5.1 schema.

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, and only needs to be run once during the migration.

If you want to view the script that is used to extend the schema (dp-schema.ldif), it is available in the product package at the following location:

```
\Altus AD Server\Schema Extension\dp-schema.ldif
```

Complete details on the extension is also provided in the DigitalPersona Altus AD Administrator Guide.

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 running the schema extension, you should wait a minimum of 30 minutes for schema replication to be completed before running the Domain Configuration Utility described in step 3 below. The actual amount of time replication takes will depend on the complexity of your Active Directory structure.

You must have Schema Administrator privileges to run the Schema Extension Wizard.

To run the Active Directory Schema Extension Wizard

- 1 Double-click **DPSchemaExt.exe**, which is located in the Altus AD Server, Schema Extension folder of the DigitalPersona Altus AD Server installation package.
- 2 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**.
- 3 If the schema is not writable, the wizard will ask for permission to make it writable. Click **Yes** to continue and begin the schema extension.

3 - Configure the domain

You should run the Domain Configuration wizard only *once* in a given domain, after adequate time has passed for the schema extension to be replicated (at least 30 minutes, although it may take longer in complex Active Directory environments). Running the wizard requires administrator privileges on the domain controller.

WARNING: Running the wizard a second time during a single replication period will result in corrupted Server data, and any DigitalPersona Servers in the domain will be unusable.

After running the Domain Configuration wizard, domain level permissions to enroll/delete fingerprints are reset to the default (which is Allow), and kiosk membership is reset to all domain users. For further details on these settings, see the Altus AD Administrator Guide.

To run the Altus AD Domain Configuration Wizard

- 1 Double-click **DPDomainConfig.exe**, which is located in the Altus AD Server, Domain Configuration folder of the Altus AD Server installation package.
- 2 A warning reminds you not to run this wizard if you have an existing installation of DigitalPersona Altus AD Server on this domain. If you are sure there are no other Altus AD Server installations on the domain you are configuring, check the **I accept that the domain will be configured** box and click **Next**.
- 3 In the **Save Log File As** dialog box, specify a file name and folder path for the log file generated by the wizard.
- 4 Click **Save** to begin performing the changes on the domain.
- 5 Follow any onscreen instructions.

4 - Backup system state

Note that a complete system state backup of Active Directory is recommended prior to installing any DigitalPersona Altus AD servers or clients. Changes made to some DigitalPersona data in Active Directory are not reversible.

5 - Install Altus AD Servers

DigitalPersona Altus AD *does not* install over, or upgrade DigitalPersona Pro Enterprise Server. You must uninstall your Pro Enterprise Servers (and any add-ons you may have installed) prior to the installation of Altus AD Server.

Note that Pro Enterprise 5.5.1 or later clients, i.e. Pro Workstation for Enterprise and Pro Kiosk for Enterprise, will continue to work with the new Altus AD Server.

To install Altus AD Server 1.1 or later & Altus Administration Tools

- 1 Check the Readme.txt file in the Altus AD folder of the software package for known issues or limitations of the current version.
- 2 Uninstall any Pro Enterprise 5.5.1 Servers.
- 3 Install Altus AD Server 1.1 or later by double-clicking **Setup.exe**, which is located in the Altus AD Server folder of the installation package.
- 4 Follow the onscreen instructions.

The installation will result in all Altus AD GPO policies being configured to their default values although the Pro policies remain in Active Directory. The *Altus AD Policy Migration Tool* described in the next step can be used to transfer your current DigitalPersona Pro Enterprise policies and settings to the Altus AD Server.

For detailed instructions on the entire Altus AD Server installation process, see the DigitalPersona Altus AD Administrator Guide, which can be downloaded from our website at:

<http://www.crossmatch.com/Support/Reference-Material/DigitalPersona-Altus-Reference-Material/>

Licensing

No additional licensing is required, as any Pro 5.5.1 licenses will be acknowledged by Altus AD.

6 - Transfer Pro policies to Altus AD

- Using the *Altus AD Policy Migration Tool*, transfer the Pro Enterprise policies and settings to Altus AD.
- Review the new settings to ensure that they are configured as expected.

DigitalPersona Altus AD and its associated workstation clients use GPMC extensions, installed under the Software Settings and Administrative Templates nodes, to link product policies and settings to Active Directory containers. These policies and settings are described in the *Policies and Settings* chapter of the DigitalPersona Altus AD Administrator Guide.

These extensions (.dll, .admx and .adml files) are automatically copied to a default folder during the installation of the Altus AD Server, which is `%systemroot%\Windows\PolicyDefinitions`.

Any policies and server settings originally implemented in Pro Enterprise Server 5.5.1 or above that are currently supported in Altus AD *will not migrate automatically* as part of the Altus AD Server installation, but can be transferred using the *Altus AD Policy Migration Tool*.

Altus AD Policy Migration Tool

An *Altus AD Policy Migration Tool* is available which can be used to transfer GPO policies from a Pro 5.5.1 Server installation to your Altus AD Server. It also provides options to remove all Pro or Altus AD policies from Active Directory.

Requirements

- Domain Administrator account
- One of the following systems
 - Windows Server 2012/2012 R2 with .NET Framework 4.5
 - Windows Server 2008/2008 R2 with .NET Framework 4.0
 - Windows 7/8 with Remote Server Administration Tools (for accessing a Server 2003 DC)

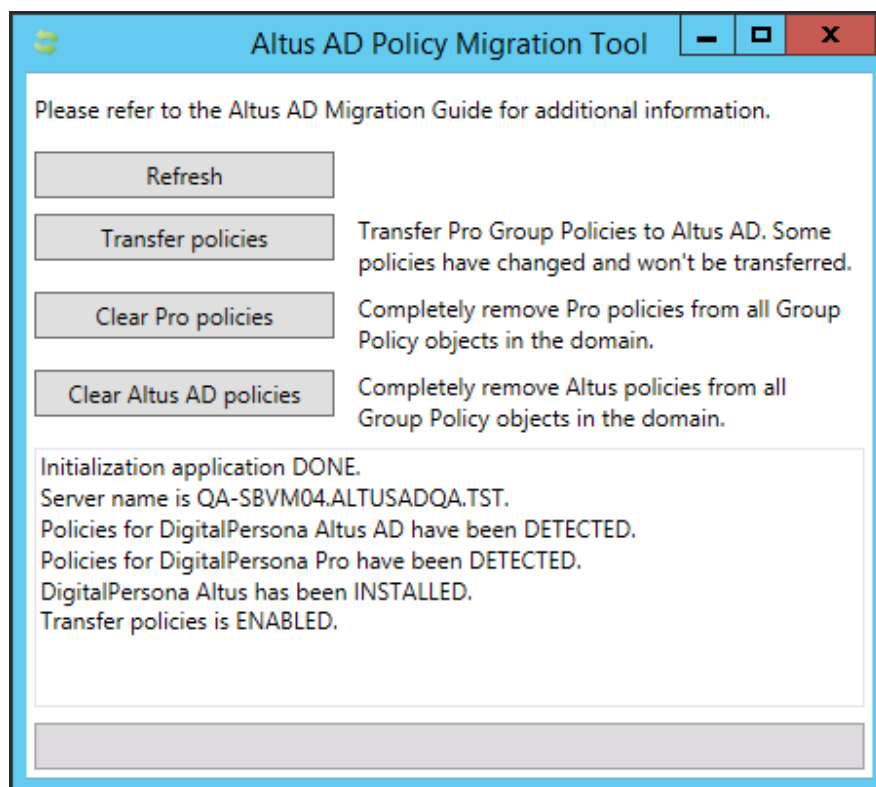
The *Altus AD Policy Migration Tool* executable can be run directly on a Windows Server 2012 domain controller, and does not need the supporting files included in the software package, which are required for all other uses of the tool.

You can also run the tool directly on a Windows Server 2008 domain controller, or remotely from a Windows 7/8 domain client, but the supporting files included in the software package must be present in the same folder as the executable.

To transfer policies from a Windows 2003 domain controller, you must run the tool remotely, as it will not run on Windows 2003. See additional requirements in the topic *To run the Altus AD Policy Migration Tool remotely* on page 10.

To transfer Pro policies to Altus AD

- 1 Check the Readme.txt file in the software package that you have received for known issues or limitations of the current version.
- 2 Locate and launch the Altus AD Policy Migration Tool, *Altus AD Policy Migration Tool.exe*.
- 3 If the tool is able to verify that both Pro Enterprise and Altus AD policies are present in Active Directory, and that Altus AD has been installed, the *Transfer Policies* button will be enabled.



- 4 Click *Transfer policies*. Upon successful transfer, a message is displayed indicating that the transfer has taken place.
- 5 Verify that all needed policies and settings are correctly configured for your environment.

Refer to the Policies and Settings chapter of the Altus AD Administrator Guide for a complete list of Altus AD policies and settings.

To run the Altus AD Policy Migration Tool remotely

When running the *Altus AD Policy Migration Tool* remotely from Windows 7/8, the *Altus AD Policy Migration Tool.exe* file must be in the same directory as the supporting files included in the distributed software package, i.e.

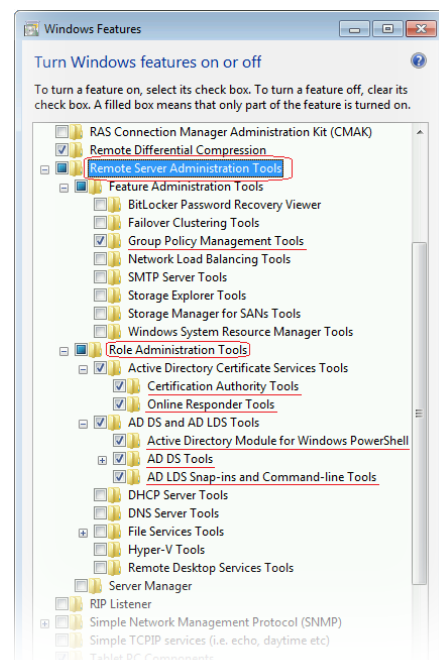
- Microsoft.GroupPolicy.Management.dll
- Microsoft.GroupPolicy.Management.Interop.dll
- Altus AD Policy Migration Tool.config

Also, Microsoft Remote Server Administration Tools (RSAT) must be installed on the computer.

To use the *Altus AD Policy Migration Tool* with a Windows Server 2003 domain controller, the tool must be run from a Windows 7/8 domain client, since it cannot be run from a Windows Server 2003 domain controller.

Installing RSAT

- 1 On a domain client running Windows 7 or Windows 8, install the Remote Server Administration Tools (RSAT), available from the Microsoft website.
- 2 Ensure that the **.NET 4.0 Framework** is installed on the machine.
- 3 In the Control Panel, click on **Programs**.
- 4 Under Programs and Features, select **Turn Windows features on or off**.
- 5 Select the at least the checkboxes as shown in the illustration on the right for **Remote Server Administration Tools** and **Role Administration Tools**. Then click **OK**.



7 - Replace DigitalPersona Administration Tools

If you will be keeping any Pro Enterprise 5.5.1 clients in your environment, you should not replace the DigitalPersona Administration Tools because you may need them to manage your Pro Enterprise clients. Instead, you should install the new (6.0.2) version of the DigitalPersona Administration Tools on a separate machine for managing your Altus AD clients.

To replace the DigitalPersona Administration Tools

- 1 Remove any installations of Pro Enterprise Administration Tools. These may include one or more of the following:
 - License Activation Manager
 - Users and Computers Snap-in
 - Attended Enrollment Tool
 - User Query Snap-in
- 2 Install the Altus AD Administration Tools from the Administration Tools folder in the product package.
- 3 Upgrade any installations of the Pro Enterprise Password Manager Admin Tool (6.0.1) provided with Pro Enterprise. It does not need to be uninstalled, but can be directly upgraded by installing the Altus AD version (6.0.2) of the tool.

8 - Install new client software

Upgrading to an Altus AD 1.1 or above client removes any locally cached secrets and credential data on the target computer. However, as long as the computer has access to an Altus AD Server, this should not affect the user since the information will be refreshed from the server. However, if the Altus AD client does not have access to an Altus AD Server (due to network problems or licensing issues), they will not be able to logon to Windows with their Altus AD managed credentials or use any Password Manager logons.

- When using AD push to remotely install clients, any installations of the DigitalPersona Pro Administration Tools or Password Manager Admin Tool should be uninstalled before upgrading. If these tools are need to manage Pro clients remaining in the new environment, the client machine used as an Administrative workstation should not be upgraded and a new Administrative workstation should be created with Altus AD workstation and the desired administrative tools.
- Pro clients should *not* be uninstalled but directly upgraded by installing the Altus AD client. Simply uninstalling the software instead of upgrading it will remove the user's stored data for any Password Manager managed or personal logons.

- Altus AD requires that kiosk users logging into the Altus AD Kiosk must be enrolled through the Attended Enrollment client or self-enrolled through the Altus AD Workstation. However, after upgrade, any previously enrolled Pro Kiosk users will still be able to log into the Altus AD Kiosk shared account without re-enrolling.

To upgrade clients to Altus AD

- 1 Check the Readme.txt file for known issues or limitations of the current version.
- 2 Run **setup.exe** from the Altus AD Workstation or Altus AD Kiosk folder in the product package.

For detailed instructions on installation of specific DigitalPersona Altus AD clients and their components, see the DigitalPersona Altus AD Administrator Guide.

9 - Clear Pro policies from AD

Once all of your Pro Enterprise clients have been upgraded to Altus AD clients, you should verify that all of your policies and settings are configured correctly and work as expected.

You can then use the Altus AD Policy Migration Tool to remove the Pro Enterprise policies from Active Directory.

- 1 Launch the Altus AD Policy Migration Tool, **TransferPolicy.exe**.
- 2 Click *Clear Pro policies*.

Pro/Altus AD feature comparison

2

The following table does not list all features of either DigitalPersona Pro Enterprise 5.5.1 or Altus AD 1.1. It lists the important differences in features and settings between the two products, as well as a few of the features or settings that exist in both but administrators may want to confirm as such. For detailed information on all the features and settings in Altus AD, see the DigitalPersona Altus AD Administrator Guide.

Feature/Policy/Setting	Pro	Altus AD	Comments
Windows XP compatible	<input checked="" type="checkbox"/>		
Supports latest version of the Chrome browser		<input checked="" type="checkbox"/>	
Supports latest version of the Firefox browser		<input checked="" type="checkbox"/>	
Evaluation version available	<input checked="" type="checkbox"/>		
Kiosk user enrollment through Altus AD Workstation		<input checked="" type="checkbox"/>	In Altus AD, kiosk users must be enrolled through the Attended Enrollment component before they can log on to a kiosk client.
DP Reports Status Events	<input checked="" type="checkbox"/>		Status Events are not available in DP Reports as released with Altus AD.
User Recovery	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Administrator feature
Administration Tools package			
Attended Enrollment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	In Altus AD, Attended Enrollment is no longer a separate install, but an optional component within the Altus AD Workstation installation.
XML Configuration		<input checked="" type="checkbox"/>	
End-User features			
Supports local users	<input checked="" type="checkbox"/>		
Local Administration Console	<input checked="" type="checkbox"/>		
Local Authentication Policies	<input checked="" type="checkbox"/>		
Credential Settings	<input checked="" type="checkbox"/>		
Application Settings	<input checked="" type="checkbox"/>		

Feature/Policy/Setting	Pro	Altus AD	Comments
Password randomization	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Previously through ESPM add-on component, now through XML configuration.
Dashboard Status	<input checked="" type="checkbox"/>		
Modern credential grabbing		<input checked="" type="checkbox"/>	Software can “grab” and save credentials when entered instead of having to enter them into a separate dialog as was necessary in Pro.
Advanced menu item, with Preferences	<input checked="" type="checkbox"/>		
Type your own passphrase	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	In Password Recovery, typing your own passphrase is not available in the Japanese, Chinese and Korean versions of Altus AD.
Backup and Restore	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Allow auto updates	<input checked="" type="checkbox"/>		
Disable local administration	<input checked="" type="checkbox"/>		
Policies and settings - Computer Configuration/Software Settings			
DP Client\Licenses	<input checked="" type="checkbox"/>		Legacy for Pro Enterprise v5.4.
Policies and settings - Computer Configuration\Administrative Templates			
DP Client\Event Logging	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Pro Enterprise included “DP Reporter,” while Altus AD renamed the component “DP Reports.”
DP Client\General Administration			
- Do not allow to run local administration tools	<input checked="" type="checkbox"/>		
- One Touch Lock		<input checked="" type="checkbox"/>	
- Quick Actions\Compatability with MS fingerprints support		<input checked="" type="checkbox"/>	
DP Client\Kiosk Administration	<input checked="" type="checkbox"/>		Legacy for Pro Enterprise v5.4.

Feature/Policy/Setting	Pro	Altus AD	Comments
DP Client\Managed Applications\Privacy Manager	<input checked="" type="checkbox"/>		The Privacy Manager application is EOL and not included with Altus AD.
DP Client\Security\Authentication	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	These settings are still available, but have been moved to the Software Settings\DigitalPersona Altus Client\Security node.
- Logon Authentication Policy	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
- Session Authentication Policy	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
DP Client\Security\Features	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
- Enable multi-factor authentication in Windows logon	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
DP Server\Identification Server settings	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Default of <i>off</i> in Pro Enterprise was changed to <i>on</i> in Altus AD.
Policies and settings - User Configuration\Administrative Templates			
DP Client\Security\Authentication			
- Session Authentication Policy	<input checked="" type="checkbox"/>		

Clearing Altus policies from Active Directory

3

*Note that generally you will **not** want to clear Altus policies from AD. This feature is provided in case you are uninstalling Altus AD and therefor wish to remove the Altus policies from Active Directory.*

To clear Altus policies from AD

- 1 Launch the Altus AD Policy Migration Tool, **TransferPolicy.exe**.
- 2 Click *Clear Altus policies*.