

# Tru64 UNIX

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## *Configuring Tru64 UNIX and Windows Single Sign On*

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This Best Practice describes how to configure Single Sign On (SSO) on a system running the Tru64™ UNIX operating system software. SSO is an optional, user-authentication security feature for the Tru64 UNIX operating system that allows Tru64 UNIX user authenticate by a Windows NT Version 4.0 Server or by a Windows 2000 Server.



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## ***Configuring Tru64 UNIX and Windows Single Sign On***

Authentication is a process in which a system attempts to validate a user-supplied name and password with an entry in a user account database on behalf of a secure application or resource. A secure application or resource requires user authentication before use. An entry for a user is created in a user account database when the administrator creates the user account. If there is no matching entry in the user account database, the user is not authenticated. If there is a matching entry in the user account database, the user is authenticated and can proceed with the request.

In many Intranet environments, users use secure Tru64 UNIX and Windows applications and resources interchangeably. However, Tru64 UNIX and Windows user account information is independently stored and managed by each system. As a result, a user must have a user account on each system from which to access secure applications or resources. For example, a PC user might connect to a disk share on a Windows system and copy a file, then print the file to a printer share hosted by a Tru64 UNIX system. This transaction requires the user to have a user account on the Tru64 UNIX system and the Windows system, because each system must authenticate the user. These systems do not share user account information.

With SSO technology, the Tru64 UNIX system does not need its own user account database, because it directs all Tru64 UNIX user authentication requests to a Windows NT Version 4.0 Server or to a Windows 2000 Server. The Windows NT Version 4.0 Server or Windows 2000 Server authenticates the user by using the information in its user account database and sends the results back to the Tru64 UNIX system.

If a user does not have a user account on the Windows system, the Tru64 UNIX operating system software attempts to authenticate the user by using Tru64 UNIX user authentication methods. For example, if Windows authentication fails, the Tru64 UNIX operating system software attempts to authenticate the user by using Network Information Service (NIS) information or the information in the `/etc/passwd` file.

This Best Practice describes the software to install to configure the Tru64 UNIX operating system software to use either a Windows NT Version 4.0 Server or a Windows 2000 Server to authenticate Tru64 UNIX users. The Tru64 UNIX operating system software cannot use a Windows NT Version 4.0 Server and a Windows 2000 Server to authenticate Tru64 UNIX users.

## Is This Best Practice Right for You?

Not all Best Practices apply to all configurations. You must be sure that this Best Practice is appropriate for your system and circumstances. To use this Best Practice, you must meet the requirements described in the following table:

Requirement	Description
Operating System	Tru64 UNIX Version 5.1A or higher.
System Configuration	The system must not be running enhanced security.
Impact on Availability	None.
User Prerequisite	You must have root privilege and be able to install Tru64 UNIX subsets.
Media Prerequisite	You must have the Tru64 UNIX Associated Products Volume 2 CD-ROM.
User Account	You must create a user account on the Windows server that you want the Tru64 UNIX operate system software to use for authentication (Windows NT Version 4.0 Server or Windows 2000 Server). See your Windows documentation for more information on creating user accounts.

If you do not meet the previous requirements, see *Alternative Practices* for information.

## Applying the Best Practice

You must install software on the system running the Tru64 UNIX operating system software to enable it to use SSO. The software that you install depends on whether you want the Tru64 UNIX operating system software to use a Windows NT Version 4.0 Server or a Windows 2000 Server for Tru64 UNIX user account authentication. The Tru64 UNIX operating system software cannot use both.

## Configuring Windows NT Version 4.0 Server Authentication

To configure the Tru64 UNIX operating system software to use a Windows NT Version 4.0 Server for authentication, you must install the ASU SIA software on the system running the Tru64 UNIX operating system software. The ASU SIA software is in a subset provided with the ASU software. The ASU software and documentation is located on the Tru64 UNIX Associated Products Volume 2 CD-ROM in the /Advanced\_Server directory.

The ASU SIA subset requires that the ASU software (ASU server and transports subsets) also be installed. In addition to providing Windows NT Version 4.0 Server authentication, the ASU software allows you to share Tru64 UNIX directories and printers with Windows users. See the *ASU Installation and Administration Guide* for information on installing the ASU software.

## Configuring Windows 2000 Server Authentication

To configure the Tru64 UNIX operating system software to use a Windows 2000 Server for authentication, you must install the Windows 2000 SSO software on the system running the Tru64 UNIX operating system software. The Windows 2000 SSO software and documentation is located on the Tru64 UNIX Associated Products Volume 2 CD-ROM in the /Windows2000\_SSO directory.

See the Windows 2000 SSO *Installation and Administration Guide* for information on installing the Windows 2000 SSO software.

You can optionally install the ASU software on the system running the Tru64 UNIX operating system software. The ASU software allows you to share Tru64 UNIX directories and printers with Windows users. If you install the Windows 2000 SSO software and the ASU software, you must:

- Not install the ASU SIA subset.
- Enable the ASU UseActiveDirectory registry entry, which is disabled by default, so that the ASU server also uses the Windows 2000 Server for Tru64 UNIX user account authentication.

## Enabling the UseActiveDirectory Registry Entry

The UseActiveDirectory registry entry is located in the SYSTEM/CurrentControlSet/Services/AdvancedServer/UserServiceParameters registry path.

Follow these steps to use the regconfig registry editor to enable the UseActiveDirectory registry entry. The backslash ( \ ) at the end a line indicates continuation. Enter the entire command, then press the Enter key.

1. Enable the UseActiveDirectory registry entry by entering the following command:

```
# regconfig SYSTEM/CurrentControlSet/Services/\
AdvancedServer/UserServiceParameters \
UseActiveDirectory REG_DWORD 1
```

2. Restart the ASU server by entering the following commands:

```
# net stop server
# net start server
```

See the ASU *Installation and Administration Guide* for more information on installing the ASU software and enabling registry entries.

## Verifying Success

After you apply the Best Practice for Configuring Tru64 UNIX and Windows Single Sign On, you can verify whether it was successful if users can log in to a Tru64 UNIX application by specifying the name of the Windows domain that contains their user account and their user name. For example:

```
\\domain_name\user_name
```

The double backslashes (\\) are optional. Users can omit \\*domain\_name* if they are logged in to the domain that contains their domain user account.

If the ASU software is installed, you can specify a default domain by editing the lanman.ini file and adding the following entry under the [ workstation ] section:

```
[ workstation ]
defaultdomain=domain_name
```

Replace *domain\_name* with the name of the default domain.

See the ASU *Installation and Administration Guide* for more information about the lanman.ini file.

If the Best Practice for Configuring Tru64 UNIX and Windows Single Sign On was not successful, see *Troubleshooting* for information about identifying and solving problems.

## Troubleshooting

If you determine that the Best Practice was not successful, as described in *Verifying Success*, use the following table to identify and solve problems:

Problem	Possible Solutions
User cannot log in to the Tru64 UNIX system	<p>Make sure that the user has a user account in the specified Windows domain.</p> <p>See your Windows documentation for more information on creating user accounts.</p>
User cannot access an ASU or Windows shared resource	<p>Make sure that:</p> <ul style="list-style-type: none"><li>• The resource is shared and the user has permissions to use the shared resource.</li><li>• The user has a user account in the specified Windows domain.</li></ul> <p>See your ASU or Windows documentation for more information on sharing resources.</p> <p>See your Windows documentation for more information on creating user accounts.</p>

## Alternative Practices

Although this Best Practice is the recommended method for configuring Tru64 UNIX and Windows Single Sign On, you can use an alternate method if your system does not meet the requirements described in *Is This Best Practice Right for You?* You can create a Tru64 UNIX user account on the Tru64 UNIX system and a Windows user account in the Windows domain for each user. Be sure that the user name and password are the same for each account.

See the *System Administration* guide for information on creating Tru64 UNIX user accounts. See your Windows documentation for information on create Windows user accounts.

## Comments and Questions

We value your comments and questions on the information in this document. Please mail your comments to us at this address:

`best_practices@zk3.dec.com`

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