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Digital X.500 Directory Service

Installing on an OpenVMS VAX System

Order Number: AV-PUCHG-TE

Revision/Update Information: Version 3.1

Checklist:

1. Read the *Read Before Installing* document.
2. Check prerequisite software, diskspace, and licenses.
3. Install V3.1 of the Directory Service.

   Print the release notes and run the IVP during the installation.
4. Edit SYSTARTUP_VMS.COM to submit the directory startup procedure during system startup.
5. If upgrading or reinstalling, recustomize any customized files, specifically:

   The schema files (recompile the schema if you customize it)
   DXD$DSA_STARTUP.NCL
   DXD$TEMPLATE_STARTUP.NCL

   Other files that might have been customized in a previous version are saved during installation. See Saving Files on Reinstallation.
6. Start the Directory Service.

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Prerequisite Software

- OpenVMS™ for VAX™ V6.1, or later
- DECnet™/OSI® V6.2 for OpenVMS VAX or later, including the applications option

Information Required

Before installing, make sure you have the following information:

- The name of the device where the installation media will be loaded.
- The UIC to be assigned to the DXD$SERVER account.
- The name of the disk where the DXD$SERVER directory is to be created.
- For clusters, the server node name. See Installing on Clusters.

Disk Space, Resource, and Time Requirements

You need 40000 free blocks on the system device or Alternate Working Device that you use for the installation. After installation, the components require disk space permanently on the system disk. Some components need global pages and sections. These requirements are cumulative.

Component	Free Blocks	Global Pages	Global Sections
Base (mandatory component)	6000	1400	8
Server	18000	-	-
Admin	7000	1800	4
API	1000	-	-
LUC	5000	-	-

Before installing, ensure that the system resources allow for all of the components you install, remembering that the Base component is mandatory.

You are recommended to back up your system disk before you begin the installation. Installation of all components takes approximately 15 minutes.

Product Licenses

Before installation, register one or more of the following licenses: X500-DIRECTORY-SERVER, X500-SERVER-USAGE, and X500-ADMIN-FACILITY.

Release Notes and Read Before Installing Document

Read the release notes before installing the software. Use VMSINSTAL OPTIONS N to print the release notes.

The product documentation includes a *Read Before Installing* document, which you must also read.

Installing the Digital X.500 Directory Service

Log in to an account with SETPRV and type:

```
$ @SYS$UPDATE:VMSINSTAL DXDV031 device OPTIONS N
```

The installation procedure displays a menu. Select the components that you want to install, and follow the instructions. The Base component is mandatory on all systems on which you want to run directory applications, such as Digital's MAILbus 400 MTA. It is installed automatically when you select any other component.

Note that, with the exception of the Base, components you do not specify are deinstalled. You must specify all components that you want on the system, including any that are already present.

Handling Errors

If an error occurs during installation, check the prerequisites and refer to *Digital X.500 Directory Service Problem Solving* for details of installation problems.

Verifying the Installation

To verify the installation, run SYS$TEST:DXD$IVP.COM.

Tasks After Installation

Edit SYS$STARTUP:SYSTARTUP_VMS.COM to include the following command line:

```
$ SUBMIT SYS$STARTUP:DXD$COMMON_STARTUP.COM
```

You also need to run that Directory Service startup file before configuring the product as described in *Digital X.500 Directory Service Management*.

If you are reinstalling or upgrading from a previous version, then you might have old copies of customized schema files. You need to incorporate your customizations into the newly installed schema files, and recompile the schema before starting the DSA. The *Read Before Installing* document provides further information about upgrading.

Saving Files on Reinstallation

The installation procedure saves copies of the following files if you reinstall the Directory Service.

SYS$COMMON:[SYS$STARTUP]DXD$DSA_STARTUP.NCL
SYS$COMMON:[SYS$STARTUP]DXD$DSA_STARTUP.COM
SYS$COMMON:[SYS$STARTUP]DXD$DSA_SHUTDOWN.NCL
SYS$COMMON:[SYS$STARTUP]DXD$TEMPLATE_STARTUP.NCL
DXD$DIRECTORY:DXD$ACI_TEMPLATE.DXIM

Each file is renamed by inserting _SAV*n* into the file name, where *n* is a number.

If the installation procedure finds schema files, these are moved to a subdirectory called SAV*n*, for example, DXD$DIRECTORY:[DXD$SERVER.SAV1]. The procedure only moves schema files that were installed by the Directory Service product. Any schema files created by the customer are unaffected.

Installing on Clusters

Only one node in a cluster can run the server. The installation prompts you for the server node name, and edits DXD$LOGICALS_STARTUP.COM to define a logical based on your answer.

On a cluster that has multiple system disks (including mixed architecture clusters), you must repeat the installation for each system disk. All system disks must run V3.1 of the Directory Service. You must install the same components and specify the same server node during each installation.

The installation registers the DXIM command. To make the command available to all cluster nodes, use the following command on each node:

```
$ INSTALL SYS$SHARE:DCLTABLES /REPLACE
```

If you prefer, you can use the SYSMAN utility for this task.

Further Information

Digital X.500 Directory Service Problem Solving contains a list of the files installed on your system, their locations and approximate sizes. The guide also lists errors that you might see during installation and verification and explains what to do if they occur.