



# OpenVMS Enterprise Directory for eBusiness

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## Installing

**Revision/Update Information:** Version 5.0

Checklist:

1. Read the *Read Before Installing* document
2. Check prerequisite software, diskspace, and licenses
3. Install V5.0 of the Directory  
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

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## Prerequisite Software

Before you install the OpenVMS Enterprise Directory for eBusiness make sure you have the following installed and working on your system:

- OpenVMS™ for Alpha V7.2-1, or later.
- DECnet-Plus V7.2-1 ECO2 for OpenVMS Alpha or later, including the application option (OSAK).
- For LDAP or other protocols that use RFC1006 connections, Compaq TCP/IP Services for OpenVMS V5.0A or later.

## 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.

## 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 OpenVMS Enterprise Directory for eBusiness

Log in to an account with SETPRV and type:

```
$ @SYS$UPDATE:VMSINSTAL DXDA050 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. 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 if present. 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 *OpenVMS Enterprise Directory for eBusiness — 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 *OpenVMS Enterprise Directory for eBusiness — Management*.

If you are reinstalling or upgrading, 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.

```
SYSSCOMMON:[SYSSSTARTUP]DXD$DSA_STARTUP.NCL
SYSSCOMMON:[SYSSSTARTUP]DXD$DSA_STARTUP.COM
SYSSCOMMON:[SYSSSTARTUP]DXD$DSA_SHUTDOWN.NCL
SYSSCOMMON:[SYSSSTARTUP]DXD$TEMPLATE_STARTUP.NCL
DXD$DIRECTORY:DXD$ACL_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 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 V5.0 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.

## No AutoAnswer Support in Installation

AutoAnswer files can only be used on installations that follow the pattern of previous installations. AutoAnswer files created during a first-time installation (that is, installation on a system that had no Directory previously), are not available during an upgrade. AutoAnswer files created during an upgrade will be available at the time of the next upgrade and any subsequent upgrade.

## Further Information

*OpenVMS Enterprise Directory for eBusiness — 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.