

Express Installation Guide

iPlanet™ Unified Development Server

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Preface

iPlanet UDS provides a platform-specific installation program to install Express on each iPlanet UDS node type. The installation programs and the iPlanet UDS source files they install are included with the Express CD.

This *Express Installation Guide* provides instructions for:

- installing Express Release 5 for the first time onto your existing iPlanet UDS Release 5 installation
- upgrading to Express Release 5

This preface contains the following sections:

- “Product Name Change” on page 7
- “Audience for This Guide” on page 8
- “Text Conventions” on page 8
- “Other Documentation Resources” on page 9
- “iPlanet UDS Example Programs” on page 10
- “Viewing and Searching PDF Files” on page 11

Product Name Change

Forte 4GL has been renamed the iPlanet Unified Development Server. You will see full references to this name, as well as the abbreviations iPlanet UDS and UDS.

Audience for This Guide

This manual is intended for the engineer responsible for installing Express.

Organization of This Guide

The following table briefly describes the contents of this guide:

Chapter	Description
<i>"Installing Express"</i>	Provides instructions for installing Express.

Text Conventions

This section provides information about the conventions used in this document.

Format	Description
<i>italics</i>	Italicized text is used to designate a document title, for emphasis, or for a word or phrase being introduced.
monospace	Monospace text represents example code, commands that you enter on the command line, directory, file, or path names, error message text, class names, method names (including all elements in the signature), package names, reserved words, and URLs.
ALL CAPS	Text in all capitals represents environment variables (FORTE_ROOT) or acronyms (UDS, JSP, iMQ). Uppercase text can also represent a constant. Type uppercase text exactly as shown.
Key+Key	Simultaneous keystrokes are joined with a plus sign: Ctrl+A means press both keys simultaneously.
Key-Key	Consecutive keystrokes are joined with a hyphen: Esc-S means press the Esc key, release it, then press the S key.

Other Documentation Resources

In addition to this guide, there are additional documentation resources, which are listed in the following sections. The documentation for all iPlanet UDS products (including Express, WebEnterprise, and WebEnterprise Designer) can be found on the iPlanet UDS Documentation CD. Be sure to read “[Viewing and Searching PDF Files](#)” on page 11 to learn how to view and search the documentation on the iPlanet UDS Documentation CD.

iPlanet UDS documentation can also be found online at <http://docs.iplanet.com/docs/manuals/uds.html>.

The titles of the iPlanet UDS documentation are listed in the following sections.

iPlanet UDS Documentation

- *A Guide to the iPlanet UDS Workshops*
- *Accessing Databases*
- *Building International Applications*
- *Esript and System Agent Reference Guide*
- *Fscript Reference Guide*
- *Getting Started With iPlanet UDS*
- *Integrating with External Systems*
- *iPlanet UDS Java Interoperability Guide*
- *iPlanet UDS Programming Guide*
- *iPlanet UDS System Installation Guide*
- *iPlanet UDS System Management Guide*
- *Programming with System Agents*
- *TOOL Reference Guide*
- *Using iPlanet UDS for OS/390*

Express Documentation

- *A Guide to Express*
- *Customizing Express Applications*
- *Express Installation Guide*

WebEnterprise and WebEnterprise Designer Documentation

- *A Guide to WebEnterprise*
- *Customizing WebEnterprise Designer Applications*
- *Getting Started with WebEnterprise Designer*
- *WebEnterprise Installation Guide*

Online Help

When you are using an iPlanet UDS development application, press the F1 key or use the Help menu to display online help. The help files are also available at the following location in your iPlanet UDS distribution:

`FORTE_ROOT/userapp/forte/cln/* .hlp.`

When you are using a script utility, such as Fscript or Escript, type help from the script shell for a description of all commands, or help *<command>* for help on a specific command.

iPlanet UDS Example Programs

A set of example programs is shipped with the iPlanet UDS product. The examples are located in subdirectories under `$FORTE_ROOT/install/examples`. The files containing the examples have a `.pex` suffix. You can search for TOOL commands or anything of special interest with operating system commands. The `.pex` files are text files, so it is safe to edit them, though you should only change private copies of the files.

Viewing and Searching PDF Files

You can view and search iPlanet UDS documentation PDF files directly from the documentation CD-ROM, store them locally on your computer, or store them on a server for multiuser network access.

NOTE You need Acrobat Reader 4.0+ to view and print the files. Acrobat Reader with Search is recommended and is available as a free download from <http://www.adobe.com>. If you do not use Acrobat Reader with Search, you can only view and print files; you cannot search across the collection of files.

➤ **To copy the documentation to a client or server**

1. Copy the `doc` directory and its contents from the CD-ROM to the client or server hard disk.

You can specify any convenient location for the `doc` directory; the location is not dependent on the iPlanet UDS distribution.

2. Set up a directory structure that keeps the `udsdoc.pdf` and the `uds` directory in the same relative location.

The directory structure must be preserved to use the Acrobat search feature.

NOTE To uninstall the documentation, delete the `doc` directory.

➤ **To view and search the documentation**

1. Open the file `udsdoc.pdf`, located in the `doc` directory.
2. Click the Search button at the bottom of the page or select Edit > Search > Query.

3. Enter the word or text string you are looking for in the Find Results Containing Text field of the Adobe Acrobat Search dialog box, and click Search.

A Search Results window displays the documents that contain the desired text. If more than one document from the collection contains the desired text, they are ranked for relevancy.

NOTE For details on how to expand or limit a search query using wild-card characters and operators, see the Adobe Acrobat Help.

4. Click the document title with the highest relevance (usually the first one in the list or with a solid-filled icon) to display the document.

All occurrences of the word or phrase on a page are highlighted.

5. Click the buttons on the Acrobat Reader toolbar or use shortcut keys to navigate through the search results, as shown in the following table:

Toolbar Button	Keyboard Command
Next Highlight	Ctrl+]]
Previous Highlight	Ctrl+[[
Next Document	Ctrl+Shift+]]

To return to the `udsdoc.pdf` file, click the Homepage bookmark at the top of the bookmarks list.

6. To revisit the query results, click the Results button at the bottom of the `udsdoc.pdf` home page or select Edit > Search > Results.

Installing Express

The Express software comes on the Express CD. You will need a CD-ROM drive accessible to your target installation node to install Express from the CD.

To install Express, you must already have installed iPlanet UDS System Software on your target node. The Express installer programs will not execute on machines without an installation of the iPlanet UDS system software.

For a list of platforms that the iPlanet UDS system software supports, see the platform matrix at <http://www.forte.com/support/platforms.html>.

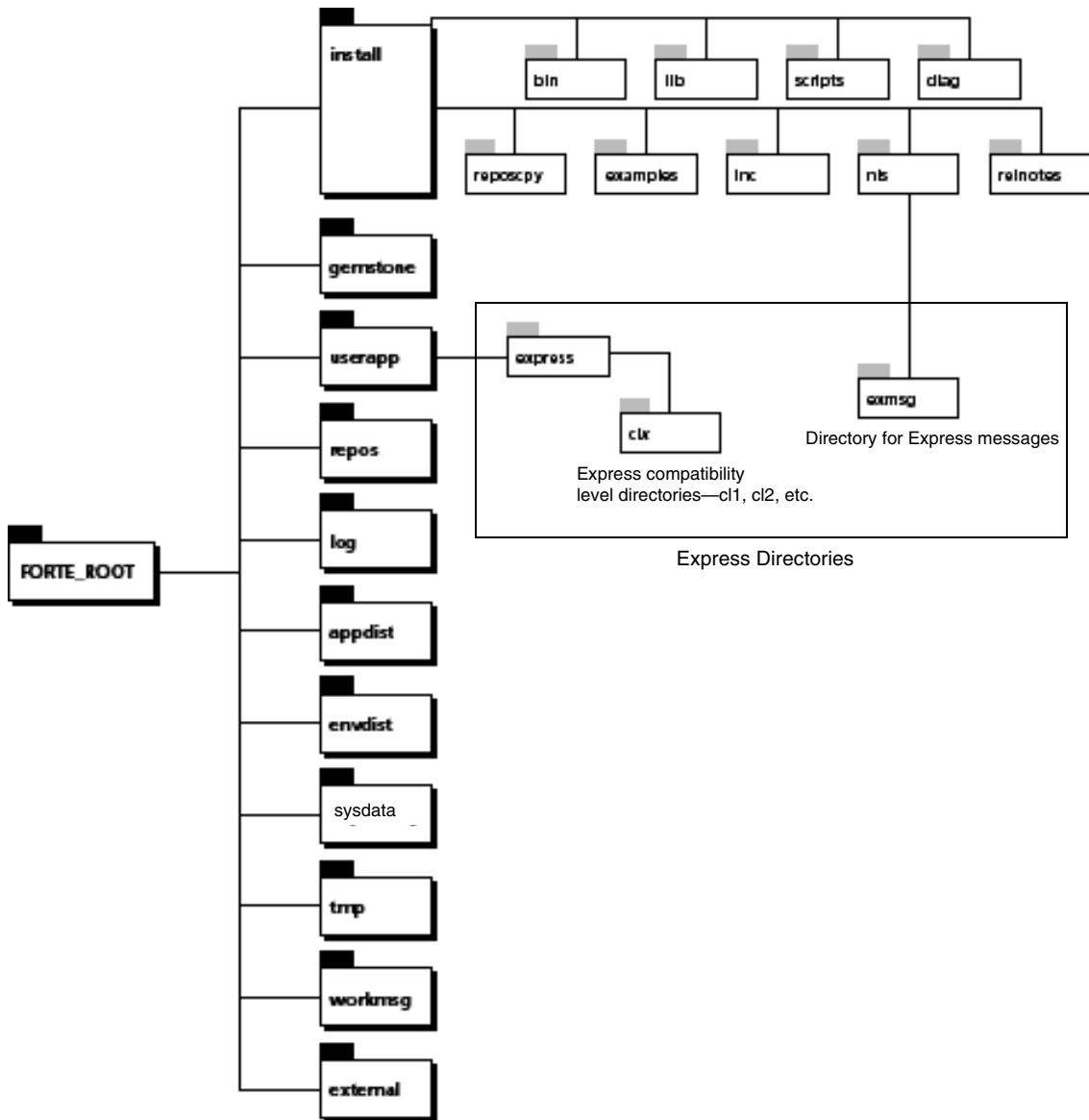
If you are upgrading Express, see “Upgrading Express” on page 16.

Understanding the Express Directory Structure

The figure below shows a typical iPlanet UDS System Software directory structure. The FORTE_ROOT structure includes a userapp directory, where the Express installer places Express files. In the userapp directory, the Express installer creates an express directory. Within the express directory, the installer creates a clx directory, representing the compatibility level of the Express installation, and containing the Express image repositories.

The Express installer adds a compatibility level directory for each successive version of Express you install, rather than replacing existing directories. This way, you can refer to a prior Express release when necessary. For example, when you install Express for the first time, the installer creates a cl0 directory; when you install a succeeding version of Express, the installer creates a cl1 compatibility level directory, and then a cl2 directory, and so on.

Figure 1 Typical iPlanet UDS System Software Directory Structure with Express



Installing Express for the First Time

You install Express from the Express CD. The Express CD provides the Express software for every platform iPlanet UDS supports. The CD meets the ISO 9660 standard, meaning that it is readable on UNIX, OpenVMS, and Windows platforms.

The CD contains platform-specific installation programs. Each directory on the Express CD, as shown in [Figure 1 on page 14](#), contains the Express software and installer for its respective platform. The `ALL_UNIX` directory, for example, contains the Express software and installer for all the UNIX platforms iPlanet UDS supports.

UNIX

► To install Express on a UNIX node

1. Mount the Express CD.
2. Set your current directory to the `ALL_UNIX` directory on the CD.

Depending on your platform, the directory or command names may be in upper or lower case.

3. Type the following command.

```
./exinstal.sh
```

This starts the Express installer for UNIX, which prompts you through the Express installation process.

Windows

► To install Express on a Windows node

1. Mount the Express CD.
2. From the Program Manager, select File > Run.

This raises the Run dialog box.

3. Type the following command in the Run dialog box and click OK.

```
F:\PC_NT\SETUP
```

VAX/OpenVMS or Alpha/OpenVMS

► To install Express on a VAX/OpenVMS or an Alpha/OpenVMS node

1. Mount the Express CD.

Running the following DCL script will assist with the mount command for the CD-ROM.

```

$! Forte_CD.com:
$! Mount a Forte software distribution CD-ROM on an
$! OpenVMS node without specifying the volume name.
$! usage:
$! @Forte_CD device_name
$! example:
$! @FORTE_CD DKA600:
$!
$$ devnam = f$getdvi(p1,"DEVNAM")
$ mount/noassist/override=identification 'devnam'
$ volume = f$getdvi(devnam,"VOLNAM")
$ dismount 'devnam'
$ mount/system/media=cdrom/undefined_fat=(FIXED:NONE:32256) -
' devnam' 'EXPRESS' cd

```

2. Start the Express installer, VMSINSTAL, using FTEXP as the saveset name.

Take the following commands as an example. For VAX/OpenVMS:

```
$ SYS$UPDATE:VMSINSTAL FTEXP CD_ROM_device_name: [VAX_VMS]
```

For Alpha/OpenVMS:

```
$ SYS$UPDATE:VMSINSTAL FTEXP CD_ROM_device_name: [AXP_VMS]
```

Upgrading Express

When you conduct an Express installation atop an existing version of Express, the installer upgrades the installation. The Express installer upgrades an Express installation in part by integrating new versions of the following projects into the system baseline of your development repository:

- AppModel
- ExpressDBBrowser

- ExpressDomains
- ExpressServices
- ExpressWindows

CAUTION To integrate these projects, the installer must check out all the classes in each of the projects listed above. If you have any classes in these projects checked out already, then the upgrade procedure will fail. You must undo the checkouts for all classes in the projects before starting the upgrade procedure.

Starting Express Release 5 with Non-Release 5 Projects

You may have Express projects in your workspace that are not Express Release 5 projects if:

- you created projects with iPlanet UDS before using Express
- you created projects with earlier releases of Express

In these cases, you must upgrade your workspace and your repository.

Upgrading Your Repository

► **To upgrade your repository**

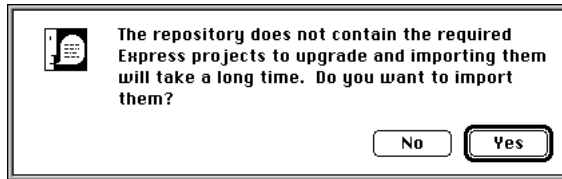
1. Start the Express Release 5 application.

Express prompts you with the following dialog:



2. Click Yes to tell Express to proceed with the upgrade.

Express then prompts you with another dialog:



3. Click Yes to tell Express to proceed with upgrading the repository.
Progress messages appear until the upgrade is complete.

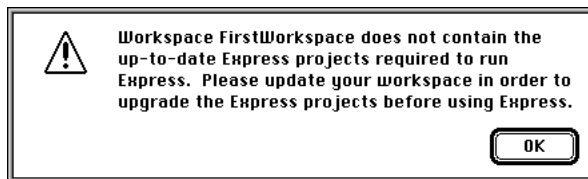
Updating Your Workspace

If you share with others a repository of Express projects created with earlier releases of Express, and someone in your group has already upgraded it to Release 5, you need only update your own workspace.

► To determine whether you need to update your workspace

1. Start the Express Release 5 application.
2. Choose the File > Open Workspace command.

If your workspace needs updating, Express prompts you with the following dialog:



3. Click OK to close the window.

► To update your workspace

1. In the Repository Workspace, choose File > Update Workspace command.