3. Installing DIGITAL InfoServer Client for DIGITAL UNIX

This chapter describes the procedures for installing DIGITAL InfoServer Client for DIGITAL UNIX software. Before you start, read Chapter 2, which describes the general options and requirements that apply to installing DIGITAL InfoServer Client for DIGITAL UNIX software.

DIGITAL InfoServer Client for DIGITAL UNIX software can be installed in a number of ways:

- Locally from CD-ROM. Section 3.1 explains how to do a local installation.
- Remotely into a Diskless Management Services (DMS) or RIS server area for future client use. Before you use these installation procedures, you must create your server environment and be ready to add DIGITAL InfoServer Client for DIGITAL UNIX to it. Section 3.2 explains how to do a DMS and RIS server installation.

3.1 Installing Locally

This installation procedure loads DIGITAL InfoServer Client for DIGITAL UNIX files on a disk that belongs to the system on which you perform the installation. When DIGITAL InfoServer Client for DIGITAL UNIX is run, its executable images are mapped into memory on this system.

This section explains how to start a local installation procedure and how to respond to installation procedure prompts.

3.1.1 Starting the Installation Procedure

If you are installing DIGITAL InfoServer Client for DIGITAL UNIX from disk, start with Section 3.1.1.1.

If you are installing DIGITAL InfoServer Client for DIGITAL UNIX on a client system using a RIS kit, start with Section 3.1.1.2

3.1.1.1 Using CD-ROM Consolidated Distribution Media

If you are installing DIGITAL InfoServer Client for DIGITAL UNIX software from disk, start the installation procedure as follows:

1. Insert the media into the appropriate CD-ROM disk drive.
2. Log in as superuser (login name root) to the system on which you are installing DIGITAL InfoServer Client for DIGITAL UNIX.
3. Make sure that you are at the root (`/`) directory by entering the following command:

   ```
   # cd /
   ```

4. Specify the `/mnt` directory to be the mount point for the distribution file system on the drive. If your drive is `ra1`, enter the following command:

   ```
   # mount -r /dev/ra1c /mnt
   ```

5. Enter a `setld` command that requests the load function and identifies the directory in the mounted file system on which DIGITAL InfoServer Client for DIGITAL UNIX subsets are located. For example:

   ```
   # setld -l /mnt/LAD100
   ```

See Section 3.1.2 to continue the installation.

3.1.1.2 Installing from a RIS Server

To install DIGITAL InfoServer Client for DIGITAL UNIX software from a Remote Installation Services (RIS) server to a RIS client, you must first install DIGITAL InfoServer Client for DIGITAL UNIX software in your RIS server environment. See your RIS manager if DIGITAL InfoServer Client for DIGITAL UNIX software is not already installed in the RIS server.

To install DIGITAL InfoServer Client for DIGITAL UNIX subsets that reside in a `/var/adm/ris` distribution area on a remote system, start the installation procedure as follows:

1. Log in as superuser (login name root) to the system on which you are installing DIGITAL InfoServer Client for DIGITAL UNIX.
2. Make sure that you are at the root (`/`) directory by entering the following command:

   ```
   # cd /
   ```

3. Enter a `setld` command that requests the load function and identifies the system on which DIGITAL InfoServer Client for DIGITAL UNIX subsets are located. For example, if you are loading DIGITAL InfoServer Client for DIGITAL UNIX subsets from a RIS distribution area on node bigsys, enter the following command:

   ```
   # setld -l bigsys:
   ```

If you receive an error, verify that you correctly followed the preparation steps in Section 2.2.

See Section 3.1.2 to continue the installation.

3.1.2 Responding to Installation Procedure Prompts

This section explains the installation procedure prompts and displays.

3.1.2.1 Selecting Subsets

After you enter the `setld` command for local (node-specific) installations or after you start the `dms` or `ris` utility for server installations, the installation procedure displays the names of DIGITAL InfoServer Client for DIGITAL UNIX subsets and asks you to specify the subsets that you want to load:

```
*** Enter Subset Selections ***

The subsets listed below are optional:

There may be more optional subsets than can be presented on a
single screen. If this is the case, you can choose subsets screen
by screen, or all at once on the last screen. All of the choices
you make will be collected for your confirmation before any subsets
are installed.

  1) InfoServer Client Drivers
  2) InfoServer Client Manuals
```

```
Or you may choose one of the following options:

  3) All of the Above
  4) Cancel selections and redisplay menus
  5) Exit without installing any subsets


Enter your choices or press RETURN to redisplay menus.

Choices (for example, 1 2 4-6): 3
```

When installing from a RIS server, note that the subset numbers may vary depending on what products are available in the RIS area.

If you specify more than one number at the prompt, separate each number with a space, not a comma.

Next, the script lets you verify your choice. For example, if you enter 3 in response to the previous prompt, you will see the following display:

```
You are installing the following optionalsubsets:

       InfoServer Client Drivers
       InfoServer Client Manuals

Is this correct? (y/n):
```

- If the displayed subsets are not the ones you intended to choose, enter `n`. In this case, the subset selection menu is again displayed, and you can correct your choice of optional subsets.
- If the displayed subsets are the ones you want to load, enter `y`.

3.1.2.2 Monitoring Displays During the Subset Loading Process

The procedure displays a message that the installation is starting.

Chapter 4 discusses the post-installation requirements specified in final informational messages from the procedure.

If, during the course of the installation, you encounter errors from the `setld` utility, see the Diagnostics section of the setld(8) reference page for an explanation of the error and the appropriate action to take.

If the verification process fails, you can look in the file `/usr/var/adm/fverify` to find information that can help you diagnose the problem.

3.2 Installing into a Server Environment

This section explains how to start the installation procedure and load software subsets when you are installing DIGITAL InfoServer Client for DIGITAL UNIX into an environment controlled by DMS or RIS.

If installing from media, mount the distribution kit as follows:

For the CD-ROM media kit, mount the media on the appropriate device on the server node. Then use the `mount` command to identify the special file for the device on which you mounted the consolidated media. For example, if you mount the disk on drive ra1, enter the following command:

```
# mount -r /dev/ra1c /mnt
```

Section 3.2.1 explains how to install DIGITAL InfoServer Client for DIGITAL UNIX into a DMS server environment. Section 3.2.2 explains how to install DIGITAL InfoServer Client for DIGITAL UNIX into a RIS server environment.

3.2.1 DMS Server Installation

The following procedure lets you install DIGITAL InfoServer Client for DIGITAL UNIX with the `dms` utility into the diskless server area. The examples in this section show how to install the subsets to `/var/adm/dms/dms0.alpha`.

1. Log in and become the superuser.
2. To invoke the `dms` utility, enter the following command:

   ```
   # dmu
   ```

3. Select the Install Software option from the following menu by typing **i**:

   *** DMU Main Menu ***

   ```
   a -  ADD a client
   c -  CONFIGURE software environments
   d -  DELETE software environments
   i -  INSTALL software environments
   l -  LIST registered clients
   m -  MODIFY a client
   r -  REMOVE a client
   s -  SHOW software environments
   x -  Exit

   Enter your choice: i
   ```

4. Choose option 2 in the following menu:

   ```
   DMU Software Installatin Menu:

     1) Install software into a new area
     2) Add software into an existing area
     3) Perform configuration phase on an existing area
     4) Return to previous menu

   Enter your choice: 2
   ```

5. The following message lists the available installation directories:

```
You have chosen to install a product into an existing
environment.  The existing environment is
/var/adm/dms/dms0.alpha.
```

If there is more than one installed `dms0.alpha` directory in the dataless server area, choose the appropriate directory from the menu that lists existing `dms0.alpha` directories. For example:

Select the remote dataless environment:

```
   1. /var/adm/dms/dms0.alpha
      'Digital Operating System (Rev 106)'

   2. /var/adm/dms/dms1.alpha
      'Digital Operating System (Rev 106)'
      'Sort Runtime Library'

Enter your choice: 1
```

6. You are next prompted for an input device name or directory path where the software is located.

```
Enter the device special file name or path of the directory
where the software is located (for example, /mnt/ALPHA/BASE):
/mnt/LPA100
```

7. If you want all registered clients to automatically have access to DIGITAL InfoServer Client for DIGITAL UNIX, enter y to the following question:

```
The product software will automatically be propagated to every
registered client. Is this all right? (y/n):   y
```

If you answer `n`, DMS returns you to the main menu.

8. Select the software subsets from the DIGITAL InfoServer Client for DIGITAL UNIX that you want to install. See Section 3.1.2.1 to specify the subsets you want to load. See Section 3.1.2.2 to monitor the displays during the subset load process and to complete the installation procedure.

Repeat these installation procedures for each `dmsn.alpha` area you plan to set up.

The `dms` main menu appears for your next selection.

3.2.2 RIS Server Installations

The following sample session describes how to add the DIGITAL InfoServer Client for DIGITAL UNIX product to the `ris0.alpha` area:

1. Log in and become the superuser.
2. Invoke the `ris` utility by entering the following command:

   ```
   # ris
   ```

3. Select the INSTALL Software option from the Remote Installation Services (RIS) main menu by typing **i**:

   ```
   Checking accessibility of RIS areas .... done

   *** RIS Utility Main Menu ***
   a -  ADD a client
   d -  DELETE software products
   i -  INSTALL software products
   l -  LIST registered clients
   m -  MODIFY a client
   r -  REMOVE a client
   s -  SHOW software products in remote installation environments
   x -  Exit

   Enter your choice: i
   ```

4. Choose option 2 from the RIS Software Installation Menu:

   ```
   RIS Software Installation Menu:

      1  Install Software to a New Area.
      2  Add Software to an Existing Area.
      3  Return to Previous Menu

   Enter your choice: 2
   ```

5. A list of available environments appears from which you might select `ris0.alpha`:

   ```
   You have chosen to add a new product into an existing
   environment.

   Select the remote installation environment:

   1  /usr/var/adm/ris/ris0.alpha
      'DEC C++ Class Libraries Version 4.0 for Digital UNIX'

   2  /usr/var/adm/ris/ris1.alpha
      'Free Software Foundation GNU Source for Digital UNIX'

   Enter your choice or press RETURN to quit:  2
   ```

6. You are next prompted for an input device name:

```
Enter the device special file name or the path of the directory
where the software is located, for example, /mnt/ALPHA/BASE:
/mnt/ALPHA/LPA100

Choose one of the following options:

1)  Extract software from /mnt/ALPHA/LPA100

2)  Create symbolic link to /mnt/ALPHA/LPA100

Enter your choice: 1
```

7. The next message lists the software subsets you select for automatic installation. See Section 3.1.2.1 to specify the subsets you want to load. See Section 3.1.2.2 to monitor the displays during the subset load process and to complete the installation procedure.

8. Repeat the following steps a through f for each RIS client allowed to install DIGITAL InfoServer Client for DIGITAL UNIX. You may be asked for more information than is displayed here based on your client's configutation, RIS setup, and the software products you want to make available for installation.

   a. The `ris` main menu appears for your next selection. Select the MODIFY a client option from the Remote Installation Services (RIS) menu by typing **m**:

   ```
   *** RIS Utility Main Menu ***
   a -  ADD a client
   d -  DELETE software products
   i -  INSTALL software products
   l -  LIST registered clients
   m -  MODIFY a client
   r -  REMOVE a client
   s -  SHOW software products in remote installation
   environments
   x -  Exit

   Enter your choice: m
   ```

   b. Enter the name of the client to be modified from the list of available clients:

   ```
   The following clients are available to modify:

   clienta clientb

   Enter the client processor's hostname or press RETURN to
   quit:  clienta
   ```

   c. Choose the environment to which you want to add the client. If there is only one environment, RIS will skip this prompt.

   ```
   Select the remote installation environment:

   1  /usr/var/adm/ris/ris0.alpha
      'DEC C++ Class Libraries Version 4.0 for Digital UNIX'
   ```

```
   ‘InfoServer Client for Digital UNIX’

2  /usr/var/adm/ris/ris1.alpha
   ‘Free Software Foundation GNU Source for Digital UNIX’

Enter your choice or press RETURN to quit:  1
```

d. The system shows you the environment(s) and products that the client can already access. At the prompt, enter the products you would like this client to be able to install including the DIGITAL InfoServer Client for DIGITAL UNIX software. Separate each choice with a space.

```
Client clienta currently can install the following products
from /usr/var/adm/ris/ris0.alpha:

'DEC C++ Class Libraries Version 4.0 for Digital UNIX’
Select one or more products for the client to install
from/usr/var/adm/ris/ris0.alpha:

    Product   Description

       1      ‘DEC C++ Class Libraries Version 4.0 for
               Digital UNIX’
       2      'InfoServer Client for DIGITAL UNIX '

Enter one or more choices as a space separated list
(for example, 1 2 3) or “all” for all products [all]: all
```

e. Confirm your choice of products for this client.

```
You chose the following products:

   1    'DEC C++ Class Libraries Version 4.0 for
          Digital UNIX’
   2    'InfoServer Client for DIGITAL UNIX '

Is that correct? (Y/N) [Y]: Y
```

f. Select your network type.

```
Network type:
      1) Ethernet or FDDI
      2) Token Ring

Enter your choice: 1

Client clienta has been modified.
```