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</tr>
<tr>
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<td>39</td>
</tr>
</tbody>
</table>
This file (READ.ME) provides TME 10 Software Distribution, Version 3.1.5 information and limitations.

**Note:** Certain characters in this file may not print correctly or at all, depending on your printer configuration, for example, the backslash (\), brackets ([ ]), the tilde (˜) and the at symbol (@).

### AIX Software

This README file contains information relevant to all supported operating systems. However, users should be aware that the TME 10 Software Distribution, Version 3.1.5 for Windows, OS/2 and Netware (CD Label LK3T-5087-00) is distributed on a separate CD-ROM to the TME 10 Software Distribution, Version 3.1.5 for AIX (CD Label LK3T-5088-00).

### Coexistence with Other TME 10 Software Distribution Products

Currently, TME 10 Software Distribution, Version 3.1.5 cannot coexist on the same workstation with:

- NetFinity Server 4.0, or later
- SystemView for OS/2
- NetView Distribution Management Agent for Windows
- NetView Distribution Management Agent for Windows NT
What's New in This Release

Release 3.1.5 of TME 10 Software Distribution contains the following new or changed functionalities:

Support for New Platforms

TME 10 Software Distribution, Version 3.1.5 adds support for the following platforms:

- Windows 2000 (Professional and Server)
- Windows NT 4.0 (Service Pack 5 and 6a)
- OS/2, version 4.5 (Warp server for e-business)
- AIX, version 4.3.x

New Pristine Scenarios

TME 10 Software Distribution, Version 3.1.5 Client can be installed on a pristine workstation in the following environments:

- Windows 2000 Professional
- Windows 2000 Server
- Windows NT 4.0 Server/Workstation
- OS/2 4.5 (Warp Server for e-business)
- AIX 4.3.3

This is in addition to the following pristine installation environments, which are maintained from the previous release:

- Windows 3.1
- Windows 95
- Windows NT Version 3.51
- OS/2 3.0.x (Warp)

Complete Platform Support Table

Table 1 on page 4 shows details of the platforms on which TME 10 Software Distribution is available. The columns in the table contain the following information:

| Server Scratch | Indicates whether the Server software can be installed from scratch. Scenarios describing how to carry out the scratch installations can be found in the relevant Quick Beginnings manuals. |
| Server Upgrade  | Indicates which version of the TME 10 Software Distribution Server can be upgraded, by supplying a reference that can be looked up in Table 2 on page 5. Scenarios describing how to carry out the upgrade can be found in the README file. |
| Client Scratch  | Indicates whether the Client software can be installed from scratch. Scenarios describing how to carry out the scratch installations can be found in the Client Installation and Customization manual. |
**Support for New Platforms**

**Client Pristine** Indicates whether the Client software can be installed on a pristine workstation (i.e. a workstation with no operating system installed). Scenarios describing how to carry out the pristine installations can be found in the Pristine and Migration Scenarios manual or the Installation Scenarios for AIX manual.

**Client Upgrade** Indicates which version of which Client software can be upgraded, by supplying a reference that can be looked up in Table 2 on page 5. Scenarios describing how to carry out the upgrade can be found in the relevant README files.

<table>
<thead>
<tr>
<th>Platform</th>
<th>OS</th>
<th>Version</th>
<th>Server</th>
<th>Upgrade</th>
<th>Client</th>
<th>Pristine</th>
<th>Upgrade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows</td>
<td>2000 Professional</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2000 Server</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NT 4.0 (SP5 &amp; 6a)</td>
<td>Y</td>
<td>1</td>
<td>Y</td>
<td>Y</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NT 3.51</td>
<td>Y</td>
<td>1</td>
<td>Y</td>
<td>Y</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>98</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>95</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3.11</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OS/2</td>
<td>3.0x</td>
<td>Y</td>
<td>2</td>
<td>Y</td>
<td>Y</td>
<td>8, 11</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4.0</td>
<td>Y</td>
<td>2</td>
<td>Y</td>
<td></td>
<td>8, 11</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4.5 (Warp server for e-business)</td>
<td>Y</td>
<td></td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AIX</td>
<td>3.2.5 - 4.2.1</td>
<td>Y</td>
<td>3</td>
<td>Y</td>
<td>9</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4.3.3</td>
<td>Y</td>
<td>3</td>
<td>Y</td>
<td>Y</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>NetWare</td>
<td>4.11 - 4.2x</td>
<td>Y</td>
<td>4</td>
<td>Y</td>
<td>10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table 2 on page 5 shows the products (and versions) that can be upgraded to TME 10 Software Distribution, Version 3.1.5; the Reference column refers to Table 1.
Deletion of Pending Requests from Host

In the circumstances where TME 10 Software Distribution is executing software distribution requests from a focal point running Tivoli NetView Distribution Manager (NetView DM for MVS) Release 7, the MVS focal point can now issue a request to delete any distribution requests that are waiting to be processed or are being processed at the TME 10 Software Distribution server.

- In the case of a distribution request waiting to be processed, the original request will be deleted, and a report sent to the focal point confirming the deletion.
- In the case of a distribution request that is in execution when the deletion request arrives, the original request will be completed, and a report sent to the MVW focal point confirming the successful completion of the original request; no report concerning the unfulfilled deletion request will be sent.

In the case of nodes in a distribution network that are not running TME 10 Software Distribution, Version 3.1.5 (i.e. older versions of TME 10 Software Distribution or NetView DM/2) the deletion requests from the MVS focal point will be ignored.

This functionality runs in the background with no intervention required by the operator of the TME 10 Software Distribution server.

**Note:** As a consequence of this new functionality global names starting with $DELETE.$PENDING are reserved, and may not be used.

---

### Table 2. Products from which TME 10 Software Distribution, Version 3.1.5 can be upgraded

<table>
<thead>
<tr>
<th>Reference (see Table 1)</th>
<th>Version installed</th>
<th>CSD or Fix Pack installed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TME 10 Software Distribution</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>3.1.3 Server for Windows NT</td>
<td>XR21923</td>
</tr>
<tr>
<td>2</td>
<td>3.1.3 Server for OS/2</td>
<td>XR21923</td>
</tr>
<tr>
<td>3</td>
<td>3.1.4 Server for AIX</td>
<td>99/10</td>
</tr>
<tr>
<td>4</td>
<td>3.1.3 Server for NetWare</td>
<td>XR21924</td>
</tr>
<tr>
<td>5</td>
<td>3.1.3 Client for Windows NT</td>
<td>XR21923</td>
</tr>
<tr>
<td>6</td>
<td>3.1.3 Client for Windows 9x</td>
<td>XR21923</td>
</tr>
<tr>
<td>7</td>
<td>3.1.3 Client for Windows 3.1</td>
<td>XR21923</td>
</tr>
<tr>
<td>8</td>
<td>3.1.3 Client for OS/2</td>
<td>XR21923</td>
</tr>
<tr>
<td>9</td>
<td>3.1.4 Client for AIX</td>
<td>99/10</td>
</tr>
<tr>
<td>10</td>
<td>3.1.3 Client for NetWare</td>
<td>XR21924</td>
</tr>
<tr>
<td><strong>NetView DM/2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>2.1</td>
<td></td>
</tr>
</tbody>
</table>
The `stattg` command gives details of the status of the agent at the local target. A new parameter has been added to the command to reveal additional information.

In the previous releases, and when used without the new parameter, the command reports these statuses:

- **Available**: Agent running and ready to process a request
- **Not Available**: Agent not running or not accessible
- **Busy**: Agent running a request and not available to process any other request.

There are circumstances in which it is possible for the server to have in its database more than one workstation name for the same agent.

For example, if a workstation has been re-defined to the server for some reason, the operator may have supplied a different workstation name than that originally used, but have used the original hostname. In this event, the agent now has the new workstation name, but the server has both workstation names defined; prior to this release the agent reported itself as being **Available** under both workstation names.

With this release, by using the parameter `-c`, in the event that the agent is **Available** and not **Busy**, the command now returns the status **Unknown** if the hostname of the agent is correct but the workstation name in the status request does not match the workstation name of the agent. Thus, by using the `-c` parameter, polling both workstation names will allow you to identify which is the correct one, as one will return the status **Available** and the other **Unknown**. If the parameter is not used, the original functionality is maintained.

However, before using this parameter you should consider the question of the timing of the `stattg` requests. When an agent receives a `stattg` request it sends the status to the server but is then not immediately available to satisfy another request. This means that a second request, received within, say, one minute of the first request, will return the status **Not Available**. If you are polling two suspect workstation names you should wait for this period before sending the second request.

This also means that if you send a `stattg` request using the asterisk wildcard to obtain the status of all or a group of workstations, the results received will depend on whether the **incorrect** workstation name comes before or after the **correct** one in the server's database:

**Incorrect workstation name is polled first**

The status of the **incorrect** workstation name will be given as **Unknown**, while the **correct** workstation will give **Not Available**

**Correct workstation name is polled first**

The status of the **correct** workstation name will be given as **Available** while the **incorrect** workstation will give **Not Available**

Thus, after using the asterisk wildcard with the `-c` parameter, you should individually poll each workstation name given as **Not Available**, waiting for approximately one minute before issuing each command. Workstations that are genuinely unavailable will report the same status as before;
workstations that were unavailable while they were recovering from a previous stattg command will now report their true status.

The full details of the stattg command are given in TME 10 Software Distribution Command Reference, TME 10 Software Distribution for NetWare Command Reference and TME 10 Software Distribution for AIX Reference.
TME 10 Software Distribution, Version 3.1.5 for OS/2

This section of the README contains information relevant to systems running OS/2

OS/2 Support and Limitations

On OS/2, you cannot use the ls and lscf commands via TELNET remote session with TCP/IP 4.0, because the server stops.

Using TME 10 Software Distribution, Version 3.1.5 for OS/2 Client with Windows NT Server Multi processor via NetBIOS

If you use the TME 10 Software Distribution, Version 3.1.5 for OS/2 Client via NetBIOS on a less powerful workstation, you might experience connection problems. To avoid these problems, set the following variable in the CONFIG.SYS file:

set FNDNBO2 = YES

Then restart the workstation.

Software Preparation GUI for OS/2 Available on OS/2 Warp 3.0, or Later

You can use the graphical user interface to software preparation for OS/2 only on OS/2 Warp 3.0, or later.

DiskCamera for OS/2 Available on OS/2 Warp 3.0, or Later

You can use DiskCamera for OS/2 only on OS/2 Warp 3.0, or later.

To use DiskCamera to install a change file, you must have the operating system installed in the same path on both the preparation site and target where you want to install the change file.

Using DiskCamera

If one of the three steps that you perform by using DiskCamera fails, delete the \BIN\DSKCAM.TMP file before using DiskCamera again.

Installation Scenarios for OS/2

The following information explains how to install TME 10 Software Distribution, Version 3.1.5.

The steps to be performed depend on whether:

• You are installing TME 10 Software Distribution, Version 3.1.5 for the first time.
• You have already installed TME 10 Software Distribution, Version 3.1.3 plus the XR21923 CSD.

This scenario tells you which steps to follow in each case.
Installation Scenarios for OS/2

Prerequisites

For these scenarios it is assumed that you have the TME 10 Software Distribution, Version 3.1.5 CID code images on a preparation site workstation.

General Assumptions

These scenarios assume the following conditions:

- The code images are stored on the TME 10 Software Distribution, Version 3.1.3 for OS/2 server workstation.
- The TME 10 Software Distribution, Version 3.1.3 + CSD XR21923 for OS/2 server is also used as a preparation site.
- The TME 10 Software Distribution, Version 3.1.5 images are stored in the D:\CID\IMG\SD4OS2 directory.

Step 1. Downloading the TME 10 Software Distribution, Version 3.1.5 Code Images

To download the TME 10 Software Distribution, Version 3.1.5 (CD-ROM LK3T-5087-00) code images to the preparation site, create the D:\CID\IMG\SD4OS2 directory on the preparation site workstation and from this directory enter the following command:

\XCOPY <CD-ROMdrive>\SD4OS2\*./* /s

After completing this step, the following structure is created under the D:\CID\IMG directory:
If you are installing TME 10 Software Distribution, Version 3.1.5 for the first time, use the updated code images to install TME 10 Software Distribution, Version 3.1.5 in the server and client environments.

To install TME 10 Software Distribution, Version 3.1.5, use the D:\CID\IMG\SD4OS2\IMAGES directory as the source directory.

The server installation scenario is described in the TME 10 Software Distribution, Version 3.1.5 Quick Beginnings manual. The client installation scenario is described in the TME 10 Software Distribution, Version 3.1.5 Installation and Configuration manual. The pristine installation scenario is described in the Pristine and Migration Scenarios INF file. To see the Pristine and Migration Scenarios INF file, click on the Scenarios icon in the Documentation folder. Skip all the other steps of this section.

If you have already installed TME 10 Software Distribution, Version 3.1.3 for OS/2 plus the XR21923 CSD, do the following:

1. Backup the existing installation of the software product (you can do this simply by copying all files and subdirectories within the program folder to an alternate location on the system).
Installation Scenarios for OS/2

2. If the installation is unattended, you can skip the following steps and proceed to the next section. For an attended installation, continue following the steps in this section.

3. When you are using the TME 10 Software Distribution, Version 3.1.5 attended installation program to update the product, upon starting the program, select the checkbox marked 'Overwrite Files'.

4. A message box will appear confirming the presence of an existing Software Distribution installation and forcing you to keep the same product directory.

5. Next, you will need to select which components to install. One of the following is mandatory, depending on the type of installation:
   - The 'Distribution Server Component' for a server installation.
   - The 'Distribution Client Component' for a client installation.
   - The 'Distribution Mobile Client Component' for a mobile client installation.

Step 2. Using CID Change File Profiles to Prepare Change Files to Install TME 10 Software Distribution, Version 3.1.5 Server, Client, and Mobile Client

Backup the existing installation of the software product (you can do this simply by copying all files and subdirectories within the program folder to an alternate location on the system).

To update the TME 10 Software Distribution for OS/2 server, clients, and mobile clients to Version 3.1.5, use the CID change file profile and response files examples stored in the following directories:

D:\CID\IMG\SD4OS2\SAMPLES

Customize the client and server change file profiles examples by modifying the paths and the file names to match your environment.

Use the following CLIENT.PRO change file profile example stored on the D:\CID\IMG\SD4OS2\SAMPLES directory to build and install the TME 10 Software Distribution, Version 3.1.5 client:

```
GLOBAL NAME: TME10.SD4OS2.OS2CLIENT.REF.315.US_EN
DESCRIPTION: TME 10 SD Client for OS/2 3.1.5 - CSD XR21925
LOCAL NAME: $(REPOSITORY)\clt315.csd
CHANGE FILE TYPE: OS2CID

PREREQ COMMAND: cidmount SRVIFS $(FREEDRIVE2) $(FREEDRIVE3) ▶
bichi distimg distlog
POSTREQ COMMAND: cidunmnt SRVIFS $(FREEDRIVE2) $(FREEDRIVE3)

INSTALL PROGRAM:
  PROGRAM NAME: $(FREEDRIVE2)\SD4OS2\IMAGES\INSTALL.EXE
  PARAMETERS: /S:$(FREEDRIVE2)\SD4OS2\IMAGES /R:$(RSPFILE) ▶
               /TU:$(BOOTDRIVE)\
               /L1:$(FREEDRIVE3)\LOG\CLT\$(TARGET).L1
               /L2:$(FREEDRIVE3)\LOG\CLT\$(TARGET).L2 /A:I /X
  RESPONSE FILE: D:\CID\IMG\SD4OS2\SAMPLES\CLIENT.RSP
```
Use the following SERVER.PRO change file example stored on the D:\CID\IMG\SD4OS2\SAMPLES directory, to install the TME 10 Software Distribution, Version 3.1.5 server:

<table>
<thead>
<tr>
<th>GLOBAL NAME:</th>
<th>TME10.SD4OS2.OS2SERVER.REF.315.US_EN</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESCRIPTION:</td>
<td>TME 10 SD Server for OS/2 3.1.5 - CSD XR21925</td>
</tr>
<tr>
<td>LOCAL NAME:</td>
<td>$(REPOSITORY)\srv315.csd</td>
</tr>
<tr>
<td>CHANGE FILE TYPE:</td>
<td>OS2CID</td>
</tr>
</tbody>
</table>

**INSTALL PROGRAM:**

<table>
<thead>
<tr>
<th>PROGRAM NAME:</th>
<th>D:\CID\IMG\SD4OS2\IMAGES\INSTALL.EXE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PARAMETERS:</td>
<td>/S:D:\CID\IMG\SD4OS2\IMAGES /R:$(RSPFILE) /TU:$(BOOTDRIVE) /L1:D:\CID\IMG\LOG\SRV$(TARGET).L1 /L2:D:\CID\IMG\LOG\SRV$(TARGET).L2 /A:I /X</td>
</tr>
</tbody>
</table>

**RESPONSE FILE:** D:\CID\IMG\SD4OS2\SAMPLES\SERVER.RSP

On the TME 10 Software Distribution, Version 3.1.3 server, enter the start command to start the TME 10 Software Distribution, Version 3.1.3 command line interface if the product has not yet started, as follows:

```plaintext
nvdm start
```

Check whether the server and the client response files contain the components you want to update, and modify them if needed.

Use the TME 10 Software Distribution for OS/2 command line interface to enter the following command for each change file profile you want to build:

```plaintext
nvdm bld D:\CID\IMG\SD4OS2\SAMPLES\SERVER.PRO

nvdm bld D:\CID\IMG\SD4OS2\SAMPLES\CLIENT.PRO
```

**Step 3. Installing the Cataloged Change File for the Server**

To install the server change file (cataloged in Step 2), as not removable in the active area on the TME 10 Software Distribution, Version 3.1.3 server workstation, enter the following command:

```plaintext
nvdm inst TME10.SD4OS2.OS2SERVER.REF.315.US_EN –n
```

During the execution of this command, the server workstation will reboot to make the code changes active.

After the installation process, the Tivoli TME 10 Software Distribution panel displays a reboot warning message for 60 seconds. Do not select the **Activate Now** button, because if selected, the TME 10 Software Distribution folder icons will not be saved in the TME 10 Software Distribution folder after the reboot process.

If you select the **Activate Now** button in error, you can recover by running the **fndicons.cmd** tool that is stored in the `<CD-ROM LK3T-5087-00 drive>\SD4OS2\TOOLS` directory.
Step 4. Installing the Cataloged Change Files for the Client and the Mobile Client

Perform this step only if Step 2 and Step 3 have been successfully executed.

Before you install the mobile client, connect it to the server by entering the following command from the server workstation:

```
nvdm connect <client_name>
```

To install the change files (cataloged in step 1) as not removable in the active area on each TME 10 Software Distribution, Version 3.1.5 client and mobile workstation, enter the following command:

```
nvdm inst TME10.SD4OS2.OS2CLIENT.REF.315.US_EN -n -w <client_name>
```

During the execution of this step the client workstations will reboot automatically in order to make the code changes active.

After the installation process, the Tivoli TME 10 Software Distribution panel displays a reboot warning message for 60 seconds. Do not select the **Activate Now** button, because if selected, the TME 10 Software Distribution folder icons will not be saved in the TME 10 Software Distribution folder after the reboot process.

If you select the **Activate Now** button in error, you can recover by running the `fndicons.cmd` tool that is stored in the `<CD-ROM LK3T-5087-00 drive>\SD4OS2\TOOLS` directory.

By performing the previous steps, you have applied the TME 10 Software Distribution, Version 3.1.5 CSD on each target in the TME 10 Software Distribution, Version 3.1.5 server domain.

---

**APARS Fixed in TME 10 Software Distribution, Version 3.1.5 for OS/2**

- PJ26209 - Def12278 FIELDS NOT REMOVED IF PRESENT IN OTHER FILE INSTALLATION
- PJ26942 - Def12278 FILES NOT REMOVED IF PRESENT IN OTHER FILE INSTALLATION
- PJ26972 - Def12279 COMMAND LINE RETURNS WITH THE RC=0 EVEN IN CASE OF ERROR
- PJ26973 - Def12279 COMMAND LINE RETURNS WITH RC=0 EVEN IN CASE OF ERROR
- PJ26401 - Def12117 NVDM START/STOP LOOP LEADS TO TRAP
- PJ26677 - Def12187 MAX LOCAL TARGETS IN QUICK BEGINNINGS FOR OS/2 -NW
- PJ26877 - Def12275 DISPLAY OF ‘FOCAL POINT’ IS MISSING IN CONFIGURATION
- PJ26898 - Def12259 FNDC TRAP IF CMSTOP ISSUED DURING FILE TRANSFER
- PJ26970 - Def12280 SET FNDACTIMMEDIATE FOR SD OS/2 CLIENT
- PJ27327 - Def12352 MESSAGE FNDRQ036I IS CONTINUALLY LOGGED WHEN DYNAMIC TRACES ARE SET
- PJ27140 - Def12291 ENVIRONMENT VARIABLES OF TME10 SOFTWARE DISTRIBUTION 3.1.X
- PJ26045 - Def12125 FIELD 'DESTINATION' OF STRUCTURE RR_INFO IS NOT FILLED (USER EXIT)
• PJ26046 - Def12125 FIELD 'DESTINATION' OF STRUCTURE RR_INFO IS NOT FILLED (USER EXIT)
• PJ26949 - Def12053 DUMP DECOMPRESSING SNA COMPRESSED FILE
• PJ27067 - Def12005 WIN98: MACHINE TYPE WINDOWS 98 NOT AVAILABLE IN SD
• PJ27068 - Def12199 SOFTWARE DISTRIBUTION COMPLETION REPORTS FOR EXECF COMMANDS
• PJ27069 - Def12207 CHANGE FILE ERROR
• PJ27070 - Def12212 PROBLEMS WITH LONG GLOBAL NAMES IN NVDM
• PJ27065 - Def12127 UNSOLICITED AUTO -REGISTRATION REPORT
• PJ27152 - Def12285 DYNAMIC CHANGE FILE INSTALLS EVEN IF CONDITION NOT SATISFIED
• PJ27148 - Def12216 SIGNAL 11 DURING CATALOG CANCELLATION
• PJ27151 - Def12124 THE TARGET STATUS IS 'AVAILABLE' IN GUI INSTEAD OF 'BUSY' AS CLI
• PJ27149 - Def12193 THE UNBUILD OPERATION SUCCESSFULLY CREATES THE DIRECTORY STRUCTURE
• PJ27150 - Def12091 DOMAIN ADDRESS DISAPPEARS ADDING A TARGET FROM GUI
• PJ27290 - Def12261 NVDM SEND RETURN RC=0 IN CASE OF ERROR
• PJ27060 - Def11968 GUI LOG PROBLEM AFTER FIXPACK 9807
• PJ27057 - Def12012 CORE DUMP DURING NVDM PRTYQ OPERATION
• PJ27257 - Def12288 COMMAND 'LSCM' STOPPED WHEN DELETING TARGETS
• PJ27245 - Def12230 REQUEST HANDLER ABORT WHEN CANCEL FOR A DELETED REQUEST
• PJ27241 - Def12277 SELECT TARGETS WITH FILTER WINDOW IS MISSING
• PJ27145 - Def12114 REQUEST HANDLER ABORTS - FNDREQ018E: USERREQ CORRUPTED
This section of the README contains information relevant to systems running Microsoft Windows 3.1x/9x/NT/2000

Windows Support and Limitations
The following section provides details of the support and limitation criteria for TME 10 Software Distribution, Version 3.1.5 running under Microsoft Windows

Windows NT 4.0 Support
Windows NT 4.0 is supported only if you installed Service Pack 2, or later.

Limitations on Windows 2000

Limitations on Windows 98
TME 10 Software Distribution for Windows 98 has the following limitation:
the IPX protocol does not work correctly for Windows 98.

Limitations on Windows NT 4.0 and Windows 95
On Windows NT and Windows 95, you might experience problems when using the Windows pull-down menu to switch from a main window to another window.

Software Preparation GUI Not Available on Windows 3.1x
The graphical user interface for software preparation is not available on Windows 3.1x clients. Use the command line interface or the Administration GUI, instead.

Dynamic Change Files Preparation not Available on Windows Administration GUI
On Windows platforms, the dynamic change files preparation function for the Administration GUI is currently not available. It will be available at a later date.

Using the Command Line API Interface with TME 10 Software Distribution, Version 3.1.5 for Windows 3.1x
You can use the command line API interface with TME 10 Software Distribution, Version 3.1.5 for Windows 3.1x to redirect the output of a command line command to a file. To build an executable file that uses the command line API interface function, use the FNDNVDM.LIB and the DVAAPI.H files, which are stored in the <CD-ROMdrive>\sd4w31\refresh\client.
Windows Support and Limitations

**FNDNVDM.LIB** Contains the library that builds the program that calls the command line API function. This file must be linked to the executable file you create to use the output command line API function.

**DVAAPI.H** Contains the prototype of the output command line API function.

For example, to redirect the output of the `nvdm ls *` command to a file by using the API function, insert the following instructions into your program:

```c
#include <stdio.h>
#include <stdlib.h>
#include <windows.h>
#include <dvaapi.h>
...
...
main(int argc, char *argv[], char *envp[])
{
    char command[100];
    char *a_argv[100];
    int a_argc, rc, i=0;
    ...
    ...
    /**********************************************************************************/
    /* The instructions to insert in your file to use the output command line function follow: */
    /**********************************************************************************/
...
#include <stdio.h>
#include <stdlib.h>
#include <windows.h>
#include <dvaapi.h>
...
...
main(int argc, char *argv[], char *envp[])
{
    char command[100];
    char *a_argv[100];
    int a_argc, rc, i=0;
    ...
    ...
    /**********************************************************************************/
    /* at this point the program calls the API */
    /**********************************************************************************/
    /* to redirect the output of the command "nvdm ls *" on the file "test" */
    /**********************************************************************************/
    strcpy(command, "nvdm_api ls *");
    a_argc = build_command(a_argv, command);
    rc = nvdm_api(a_argc, a_argv, "test");
    ...
    ...
    return(rc);
}

int build_command (char **arg, char *Buffer)
{
    char *tok, *tbuff;
    int rc=0;
    tbuff = (char *) malloc(strlen(Buffer) + 1);
    strcpy(tbuff, Buffer);
...
The `a_argv` parameter contains the command string. In the example the command is `nvdm ls *`.

The `filename` parameter contains the name of the file to which you redirect the output of the command. The filename can be from one to eight characters long plus an extension of up to three characters. In the example the file name is `test`.

**Using Message Log via Administration GUI on Windows**

On Windows platforms, if you use the Message Log via Administration GUI you might experience performance problems.

**Using DiskCamera**

To use DiskCamera to install a change file, you must have the operating system installed in the same path on both the preparation site and target where you want to install the change file.

If one of the three steps that you perform by using DiskCamera fails, delete the `\BIN\DSKCAM.TMP` file before using DiskCamera again.

If you run DiskCamera on Windows 3.1x, the `DPFPRE.EXE` and `DPFPOST.EXE` files create the `DSKCAM.LOG` file in different directories. Usually, `DPFPRE.EXE` creates the `DSKCAM.LOG` file under `<DRIVE>\SOFTDIST\BIN`, and `DPFPOST.EXE` creates the `DSKCAM.LOG` file under `C:\WINDOWS`.

**Using the Administration GUI on Windows**

On Windows platforms, to improve the performance of the Administration GUI and enable you to use the windows effectively, it is recommended that you use a workstation with a Super VGA display and a Pentium processor.

**Using Directory and File Names with Embedded Spaces on Windows**

If you create, refresh, update, or fix a change file by adding new files to it, you might experience problems when using directory or files names with embedded spaces.

1. On Windows NT 4.0, Windows 2000, Windows 98, or Windows 95,
Installation Scenarios for Windows platforms

if you select Catalog ▶ Change File ▶ Create New ▶ Refresh or Update or Fix ▶ Change File Type, the Change File window appears.

2. Select the Files push button. The Files in Change File window appears.

3. Select Find. The Open window appears. If the name of the directory you use has an embedded space, as in the following example:

   aname bname

   the name is shown in the list of directories as follows:

   anameb˜1

   If you have a file name like the following:

   afile bname

   the name is shown in the list of files as follows:

   afileb˜1

When you install the change file in the aname bname directory, either one of the following happens:

- The change file is installed in the aname bname directory, if the directory was created from the command prompt.
- The change file is installed in the anameb˜1 directory, if the directory does not exist.

On Windows NT 3.51, the directory and file names with embedded spaces are not shown in the directory list or file list.

On Windows platforms, to avoid this problem, do not use blanks for directory or file names. As an alternative, you can write the path and file name directly in the Name field of the Change File window.

Windows 3.1x Client Information

On Windows 3.1x clients:

- You cannot specify an operating system command directly as a pre- or post- command or request. You can specify a batch file that contains the operating system command, instead.
- To use the Mounting File Systems (cx_mount_fs) user exit, LAN Requester must be installed.
- After having installed the Windows 3.1x Distribution Client Mobile component and restarted the workstation, go to the product group and double-click on the Mobile Client DB Reset icon. This completes the installation of the mobile client.


The following two scenarios explain how to install TME 10 Software Distribution, Version 3.1.5 on Windows NT, Windows 2000, Windows 98, and Windows 95. The installation scenario for the Windows 3.11 platform is described in the TME 10 Software Distribution Clients Installation and Configuration.

- To install the product on a new machine use the Setup Procedure, Scenario One
Installation Scenarios for Windows platforms

- To install the product on a machine where a version of the product is already installed use either the Setup Scenario or the SDUPD.BAT Procedure, Scenario Two.

Scenario One: Using the Setup Procedure

You may use this procedure if the machine on which you wish to install TME 10 Software Distribution, Version 3.1.5 is running one of the following operating systems:

- Windows NT 4.0 (up to Service Pack 6a)
- Windows 2000 Professional or Server
- Windows 98
- Windows 95

If you wish to install TME 10 Software Distribution, Version 3.1.5 on a completely new machine without any version of the Operating System previously installed follow the procedures described in Software Distribution 3.1.5 Pristine & Migration Scenarios.

If you wish to install TME 10 Software Distribution, Version 3.1.5 on a machine which already has one of the operating systems installed, whether or not there is a prior version of TME 10 Software Distribution, Version 3.1.5 already installed, you can use the Setup procedures described in either the TME 10 Software Distribution, Version 3.1.5 Windows NT Quick Beginnings manual, to install the server software, or in the TME 10 Software Distribution, Version 3.1.5 Clients Installation and Configuration manual, to install the client software. These Setup procedures allow you to install TME 10 Software Distribution, Version 3.1.5 in an attended way, i.e. you use the setup procedures incorporated within the installation wizard of the software product.

Scenario Two: Using the SDUPD.BAT Batch Procedure

You may use this procedure if the machine on which you wish to install TME 10 Software Distribution, Version 3.1.5 is running one of the following operating systems:

- Windows NT 4.0 (up to Service Pack 6a)
- Windows 98
- Windows 95

The following procedure can only be used if version 3.1.3 of the product is already installed on the computer, i.e. CSD XR21923 has already been installed.

The SDUPD.BAT batch script creates a set of change file profiles. Use the profiles to create the change files that will be applied over the existing product installed on your hard disk.

Generic change files are created for the following packages:

- TME 10 Software Distribution, Version 3.1.5 Server for Windows NT
- TME 10 Software Distribution, Version 3.1.5 Client for Windows NT
- TME 10 Software Distribution, Version 3.1.5 Client for Windows 9x
- TME 10 Software Distribution, Version 3.1.5 Mobile Client for Windows NT
- TME 10 Software Distribution, Version 3.1.5 Mobile Client for Windows 9x
Installation Scenarios for Windows platforms

**General Assumptions:** This scenario assumes the following conditions:

- The TME 10 Software Distribution, Version 3.1.3 plus the CSD XR21923 Server is used as preparation site.
- The code images are stored on the TME 10 Software Distribution, Version 3.1.3 server workstation.
- The TME 10 Software Distribution, Version 3.1.5 images are stored in the D:\SD_IMG directory.

**Step 1. Downloading Preparation Code and Profiles using SDUPD.BAT:** Download the code to the code server, in the D:\SD_CSD directory, as described below:

1. Insert the TME 10 Software Distribution CD-ROM LK3T-5087-00 in the code server workstation. This scenario assumes that the drive letter corresponding to the CD-ROM is F:
2. Create the D:\SD_CSD directory on the code server workstation.
3. Open a command prompt session.
4. Change the current directory to F:\SD4WNT9x
5. From this directory enter the command:
   
   SDUPD.BAT D:\SD_CSD\SD4WNT9x F:\SD4WNT9x

After completing this step, the following directory structure is created under the D:\SD_CSD directory:

```
D:\SD_CSD\  
  \<DIR>  SD4WNT9x\  
     .  
     ..  
     WNTS.PRO  
     WNTC.PRO  
     WNTM.PRO  
     W9XC.PRO  
     W9XM.PRO  
     ....  
```

The WNTS.PRO profile follows as an example.
<table>
<thead>
<tr>
<th>GLOBAL NAME:</th>
<th>IBM.SD4WNT.SERVER.REF.3150</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESCRIPTION:</td>
<td>SD Server for WNT 3.1.5 - (XR21925 level)</td>
</tr>
<tr>
<td>CHANGE FILE TYPE:</td>
<td>GEN</td>
</tr>
<tr>
<td>OBJECT:</td>
<td></td>
</tr>
<tr>
<td>SOURCE NAME:</td>
<td>F:\SD4WNT9x\update\wnts*.exe</td>
</tr>
<tr>
<td>TARGET NAME:</td>
<td>$(FILEPATH)BIN*.exe</td>
</tr>
<tr>
<td>TYPE:</td>
<td>FILE</td>
</tr>
<tr>
<td>ACTION:</td>
<td>COPY</td>
</tr>
<tr>
<td>INCLUDE SUBDIRS:</td>
<td>NO</td>
</tr>
<tr>
<td>GENERAL ATTR:</td>
<td>-A----</td>
</tr>
<tr>
<td>OBJECT:</td>
<td></td>
</tr>
<tr>
<td>SOURCE NAME:</td>
<td>F:\SD4WNT9x\update\wnts*.dll</td>
</tr>
<tr>
<td>TARGET NAME:</td>
<td>$(FILEPATH)BIN*.dll</td>
</tr>
<tr>
<td>TYPE:</td>
<td>FILE</td>
</tr>
<tr>
<td>ACTION:</td>
<td>COPY</td>
</tr>
<tr>
<td>INCLUDE SUBDIRS:</td>
<td>NO</td>
</tr>
<tr>
<td>GENERAL ATTR:</td>
<td>-A----</td>
</tr>
<tr>
<td>OBJECT:</td>
<td></td>
</tr>
<tr>
<td>SOURCE NAME:</td>
<td>F:\SD4WNT9x\update\wnts*.cat</td>
</tr>
<tr>
<td>TARGET NAME:</td>
<td>$(FILEPATH)*.cat</td>
</tr>
<tr>
<td>TYPE:</td>
<td>FILE</td>
</tr>
<tr>
<td>ACTION:</td>
<td>COPY</td>
</tr>
<tr>
<td>INCLUDE SUBDIRS:</td>
<td>NO</td>
</tr>
<tr>
<td>GENERAL ATTR:</td>
<td>-A----</td>
</tr>
<tr>
<td>OBJECT:</td>
<td></td>
</tr>
<tr>
<td>SOURCE NAME:</td>
<td>F:\SD4WNT9x\update\dkamnt*.*</td>
</tr>
<tr>
<td>TARGET NAME:</td>
<td>$(FILEPATH)BIN*.*</td>
</tr>
<tr>
<td>TYPE:</td>
<td>FILE</td>
</tr>
<tr>
<td>ACTION:</td>
<td>COPY</td>
</tr>
<tr>
<td>INCLUDE SUBDIRS:</td>
<td>NO</td>
</tr>
<tr>
<td>GENERAL ATTR:</td>
<td>-A----</td>
</tr>
<tr>
<td>OBJECT:</td>
<td></td>
</tr>
<tr>
<td>SOURCE NAME:</td>
<td>F:\SD4WNT9x\update\wnts\ICON315.BAT</td>
</tr>
<tr>
<td>TARGET NAME:</td>
<td>$(FILEPATH)BIN\ICON315.BAT</td>
</tr>
<tr>
<td>TYPE:</td>
<td>FILE</td>
</tr>
<tr>
<td>ACTION:</td>
<td>COPY</td>
</tr>
<tr>
<td>INCLUDE SUBDIRS:</td>
<td>NO</td>
</tr>
<tr>
<td>GENERAL ATTR:</td>
<td>-A----</td>
</tr>
<tr>
<td>OBJECT:</td>
<td></td>
</tr>
<tr>
<td>SOURCE NAME:</td>
<td>F:\SD4WNT9x\update\wnts\FOLDER315.INI</td>
</tr>
<tr>
<td>TARGET NAME:</td>
<td>$(FILEPATH)FOLDER315.INI</td>
</tr>
<tr>
<td>TYPE:</td>
<td>FILE</td>
</tr>
<tr>
<td>ACTION:</td>
<td>COPY</td>
</tr>
<tr>
<td>INCLUDE SUBDIRS:</td>
<td>NO</td>
</tr>
<tr>
<td>GENERAL ATTR:</td>
<td>-A----</td>
</tr>
</tbody>
</table>

Figure 1 (Part 1 of 2). WNTS.PRO example profile
Installation Scenarios for Windows platforms

# ----------- GUI code - uncomment if needed
#OBJECT:
# SOURCE NAME: F:\SD4WNT9x\update\guints\*.*
# TARGET NAME: $(FILEPATH)BIN\*.*
# TYPE: FILE
# ACTION: COPY
# INCLUDE SUBDIRS: NO
# GENERAL ATTR: -A----

# ----------- NetFinity 5.0 code - uncomment if needed
#OBJECT:
# SOURCE NAME: F:\SD4WNT9x\update\netfwnt\*.*
# TARGET NAME: $(FILEPATH)BIN\*.*
# TYPE: FILE
# ACTION: COPY
# INCLUDE SUBDIRS: NO
# GENERAL ATTR: -A----

# ----------- Documentation files - uncomment if needed
#OBJECT:
# SOURCE NAME: F:\SD4WNT9x\update\doc\*.*
# TARGET NAME: $(FILEPATH)BIN\*.*
# TYPE: FILE
# ACTION: COPY
# INCLUDE SUBDIRS: NO
# GENERAL ATTR: -A----

Figure 1 (Part 2 of 2). WNTS.PRO example profile

The GUI component (guints) is commented out in the profiles. Remove the number sign (#) to update the GUI component.

The Netfinity component (netfwnt) is commented out in the profiles. Remove the number sign (#) to update the NetFinity files to the 5.0 version. Use NetFinity version 5.0 if there is a problem with the inventory phase of the product; if necessary, a change file can be built later to update the NetFinity files.

The documentation component (doc) is commented out in the profiles. Remove the number sign (#) to update the documentation component.

Step 2. Building Change Files from Downloaded Profiles: To update the TME 10 Software Distribution installed products to Version 3.1.5, use the change file profiles that have been downloaded in the preparation directory D:\SD_CSD\SD4WNT9x.

To build the change files to install the CSD, use the following profiles:

WNTS.PRO For a Windows NT server
WNTC.PRO For a Windows NT client
WNTM.PRO For a Windows NT mobile
W9XC.PRO For a Windows 9x client
W9XM.PRO For a Windows 9x mobile client
To start TME 10 Software Distribution, Version 3.1.3 via the command line interface, enter the following command:

```
nvdm start
```

Change the current directory to D:\SD_CSD\SD4WNT9x. Use the TME 10 Software Distribution, Version 3.1.3 command line interface to enter the following command for each change file profile you want to build:

```
nvdm bld <change_file_profile_name>
```

Do not remove the CD-ROM during the execution of the `nvdm bld` command, because the CD-ROM is accessed to get the preparation code.

### Step 3. Installing Change Files:

In Step 2 you created a set of change files that are stored under the repository of the TME 10 Software Distribution, Version 3.1.3 server, with the following names:

- IBM.SD4WNT.SERVER.REF.3150
- IBM.SD4WNT.CLIENT.REF.3150
- IBM.SD4WNT.MOBILE.REF.3150
- IBM.SD4W9X.CLIENT.REF.3150
- IBM.SD4W9X.MOBILE.REF.3150

To install the change files (which you created in the previous step), use the following commands.

**For a Windows NT Server:**

```
nvdm inst IBM.SD4WNT.SERVER.REF.3150 -n -vs -w <target_name>
```

To confirm whether the installation has been completed correctly, verify that the change management status of the IBM.SD4WNT.SERVER.REF.3150 change files is as follows:

```
IBM.SD4WNT.SERVER.REF.3150 installed not removable inactive
```

If the installation performed in the previous step has been executed successfully, perform an activate request on the Windows NT server to make the code changes active, by entering the following command:

```
nvdm act -w <target_name> -f
```

During the execution of this step, the server workstation will restart automatically in order to make the code changes active.

Once the code is activated, the Start Menu entries must be updated to correspond to the new version of the installation.

The entries for 'TME 10 SD (3.1.3) Message Log' and 'TME 10 SD (3.1.3) SW Preparation' will be updated to read '3.1.5'.

The following commands should be issued from the Server terminal:

```
nvdm cat IBM.SD4WIN.ICON315.REF.1 $<filepath>\bin\icon315.bat -d "Upgrade of the icons of SD in the Start Menu" -o PROC
```

```
nvdm exec IBM.SD4WIN.ICON315.REF.1 -w <target_name>
```

Where `<filepath>` is the location of the directory within which the product is installed and `<target_name>` is the name of the target.
Installation Scenarios for Windows platforms

- For a **Windows NT Client**:
  
nvdm inst IBM.SD4WNT.CLIENT.REF.3150 -n -vs -w <target_name>

  nvdm act -w <target_name> -f

  Once the code is activated, the Start Menu entries must be updated to correspond to the new version of the installation.

  The entries for 'TME 10 SD Client (3.1.3) Message Log' and 'TME 10 SD Client (3.1.3) SW Preparation' will be updated to read '3.1.5'.

  The following commands should be issued from the Server terminal:

  nvdm cat IBM.SD4WIN.ICON315.REF.1 $<filepath>\bin\icon315.bat -d "Upgrade of the icons of SD in the Start Menu" -o PROC

  nvdm exec IBM.SD4WIN.ICON315.REF.1 -w <target_name>

  Where <filepath> is the location of the directory within which the product is installed and <target_name> is the name of the target.

- For a **Windows NT Mobile Client**:

  nvdm inst IBM.SD4WNT.MOBILE.REF.3150 -n -vs -w <target_name>

  nvdm act -w <target_name> -f

  Once the code is activated, the Start Menu entries must be updated to correspond to the new version of the installation.

  The entries for 'TME 10 SD Client (3.1.3) Message Log' and 'TME 10 SD Client (3.1.3) SW Preparation' will be updated to read '3.1.5'.

  The following commands should be issued from the Server terminal:

  nvdm cat IBM.SD4WIN.ICON315.REF.1 $<filepath>\bin\icon315.bat -d "Upgrade of the icons of SD in the Start Menu" -o PROC

  nvdm exec IBM.SD4WIN.ICON315.REF.1 -w <target_name>

  Where <filepath> is the location of the directory within which the product is installed and <target_name> is the name of the target.

- For a **Windows 9x Client**:

  nvdm inst IBM.SD4W9X.CLIENT.REF.3150 -n -vs -w <target_name>

  nvdm act -w <target_name> -f

  Once the code is activated, the Start Menu entries must be updated to correspond to the new version of the installation.

  The entries for 'TME 10 SD Client (3.1.3) Message Log' and 'TME 10 SD Client (3.1.3) SW Preparation' will be updated to read '3.1.5'.

  The following commands should be issued from the Server terminal:

  nvdm cat IBM.SD4WIN.ICON315.REF.1 $<filepath>\bin\icon315.bat -d "Upgrade of the icons of SD in the Start Menu" -o PROC

  nvdm exec IBM.SD4WIN.ICON315.REF.1 -w <target_name>
Installation Scenarios for Windows platforms

Where `<filepath>` is the location of the directory within which the product is installed and `<target_name>` is the name of the target.

- For a **Windows 9x Mobile Client**:

  nvdm inst IBM.SD4W9X.MOBILE.REF.3150 -n -vs -w `<target_name>`

  nvdm act -w `<target_name>` -f

  Once the code is activated, the Start Menu entries must be updated to correspond to the new version of the installation.

  The entries for 'TME 10 SD Client (3.1.3) Message Log' and 'TME 10 SD Client (3.1.3) SW Preparation' will be updated to read '3.1.5'.

  The following commands should be issued from the Server terminal:

  nvdm cat IBM.SD4WIN.ICON315.REF.1 `<filepath>\bin\icon315.bat -d "Upgrade of the icons of SD in the Start Menu" -o PROC`

  nvdm exec IBM.SD4WIN.ICON315.REF.1 -w `<target_name>`

  Where `<filepath>` is the location of the directory within which the product is installed and `<target_name>` is the name of the target.

**Updating Version 3.1.3 to Version 3.1.5: Windows NT to Windows 2000 Migration Issues**

Version 3.1.3 of TME 10 Software Distribution will not operate under the Windows 2000 environment. Before migrating your operating system from Windows NT to Windows 2000 you must update Version 3.1.3 of TME 10 Software Distribution to Version 3.1.5.

To complete the updated installation of Version 3.1.5 on a platform running Windows 2000 you must stop the product and modify the base configuration file `nvdm.cfg`.

Stop the product by entering the command:

nvdm stop -x -k

Open `nvdm.cfg` in a text editor and change the MACHINE TYPE keyword so that it reads:

```
MACHINE TYPE: WIN2K
```

Restart the product with the command:

nvdm start

You must then update the target operating system by issuing the command:

nvdm updtg `<target_name>` -y WIN2K

**Updating Version 3.1.3 to Version 3.1.5 under Windows 98**

To complete the updated installation of Version 3.1.5 from Version 3.1.3 on a platform running Windows 98 you must stop the product and modify the base configuration file `nvdm.cfg`.

Stop the product by entering the command:
nvdm stop -x -k

Open nvdm.cfg in a text editor and change the MACHINE TYPE keyword so that it reads:
MACHINE TYPE: WIN98

Restart the product with the command:
nvdm start

You must then update the target operating system by issuing the command:
nvdm updtg <target_name> -y WIN98

APARs Fixed in TME 10 Software Distribution, Version 3.1.5 for Windows

- PJ26735 - Def12189 NVDM STATTTG NEEDS 'ADMINISTRATOR' USER
- PJ26750 - Def12195 SD FOR WNT NVDMGI.EXE CAN REMAIN ACTIVE IF (2) NVDMGI IS OPENED VIA 'START NVDMGI.EXE' AND CLOSED (ONLY THE 1ST NVDMGI.EXE STOPS)
- PJ26741 - Def12197 DISKCAMERA CREATE NOT ENTRIES FOR *.DAT FILES INTO PROFILE
- PJ26758 - Def12198 FNDUSER VARIABLE = "" CAUSES NT EXCEPTION
- PJ26778 - Def12199 SOFTWARE DISTRIBUTION COMPLETION REPORTS FOR EXECF COMMANDS
- PJ26789 - Def12207 CHANGE FILE ERROR
- PJ26799 - Def12212 PROBLEMS WITH LONG GLOBAL NAMES IN NVDM NT
- PJ26449 - Def12138 HKEY_CURRENT_USER NOT UPDATED BY DISKCAMERA
- PJ26205 - Def12196 SCHEDULING AN INSTALL FROM THE SD 313 NT GUI SHUTS DOWN THE GUI
- PJ26819 - Def12216 SIGNAL 11 DURING CATALOG CANCELLATION
- PJ25777 - Def12229 ON WINDOWS 98 GUI TRAPS ON CLOSURE
- PJ26832 - Def12221 SD GUI WINNT GENERATE GENERIC CHANGE FILE VIA GUI
- PJ26807 - SNA/DS ON TCP/IP NOT SUPPORTED ON NT PLATFORM
- PJ26773 - Def12193 THE UNBUILD OPERATION SUCCESFULLY CREATES THE DIRECTORY STRUCTURE
- PJ26905 - Def12261 NVDM SEND RETURN RC=0 IN CASE OF ERROR
- PJ26817 - Def12206 GUI: REFRESH DOES NOT WORK PROPERLY ON CATALOG WINDOW
- PJ26939 - Def12263 DISKCAMERA FAILED RETURNING 2 WHEN PROFILEIMAGEPATH IS DELETED
- PJ26938 - Def12091 DOMAIN ADDRESS DISAPPEARS ADDING A TARGET FROM GUI
- PJ26936 - Def12141 FNDCO034E REQUESTING HISTORY FROM GUI OF A NOT AVAILABLE TARGET
- PJ26965 - Def12124 THE TARGET STATUS IS 'AVAILABLE' IN GUI INSTEAD OF 'BUSY' AS CLI
• PJ26212 - Def12005 WIN98: MACHINE TYPE WINDOWS 98 NOT AVAILABLE IN SD
• PJ26409 - Def12127 UNSOLICITED AUTO -REGISTRATION REPORT
• PJ27085 - Def12287 PROBLEM WITH DATE FORMAT YYYY/MM/DD IN -D OPTION IN SWD SERVER
• PJ27081 - Def12287 PROBLEM WITH DATE FORMAT YYYY/MM/DD IN -D OPTION IN SWD CLIENT
• PJ26492 - Def12137 NT: REQUIREMENT TO ENABLE SILENT UNINSTALL
• PJ27030 - Def12285 DYNAMIC CHANGE FILE INSTALLS EVEN IF CONDITION NOT SATISFIED
• PJ27153 - SD FOR NT: NEW DOC PROVIDED FOR MICROSOFT SNA SERVER
• PJ27158 - MAX CONNECTIONS DESCRIPTION CONTAINS ERRATA OR INCORRECT INFO IN SH19 -4335 -01
• PJ26717 - Def12053 DISTRIBUTING A COMPRESSED FILE FROM HOST TO NT, YOU CAN GET CORE DUMP WHILE DECOMPRESSED THE FILE ON THE NT SIDE
• PJ27059 - Def11968 GUI LOG PROBLEM AFTER FIXPACK 9807
• PJ27056 - Def12012 CORE DUMP DURING NVDM PRTYQ OPERATION
• PJ27146 - Def12114 REQUEST HANDLER ABORTS - FNDRQ018E: USERREQ CORRUPTED
• PJ27061 - Def12278 FIELS NOT REMOVED IF PRESENT IN OTHER FILE INSTALLATION
• PJ27062 - Def12278 FILES NOT REMOVED IF PRESENT IN OTHER FILE INSTALLATION
• PJ27063 - Def12279 COMMAND LINE RETURNS WITH THE RC=0 EVEN IN CASE OF ERROR
• PJ27064 - Def12279 COMMAND LINE RETURNS WITH RC=0 EVEN IN CASE OF ERROR
• PJ27258 - Def12288 COMMAND 'LSCM' STOPPED WHEN DELETING TARGETS
• PJ27244 - Def12230 REQUEST HANDLER ABORT WHEN CANCEL FOR A DELETED REQUEST
• PJ27240 - Def12277 "SELECT TARGETS WITH FILTER" WINDOW IS MISSING
• PJ27058 - Def12125 FIELD 'DESTINATION' OF STRUCTURE RR_INFO IS NOT FILLED (USER EXIT)
• PJ27238 - Def12125 FIELD 'DESTINATION' OF STRUCTURE RR_INFO IS NOT FILLED (USER EXIT)
TME 10 Software Distribution, Version 3.1.5 for Netware

This section of the README contains information relevant to systems running Novell Netware

If you are a Windows user, and you want to read the online information stored in the SD4NW\BOOKS directory, use the XVIEW tool. At the Windows workstation insert the TME 10 Software Distribution, Version 3.1.5 for NetWare CD-ROM in the cd drive and enter the following command:

```
XVIEW CD_DRIVE\SD4NW\BOOKS filename.inf /SHOW
```

where filename is the name of the file that contains the information that you want to read. For example, if you want to read the TME 10 Software Distribution, Version 3.1.5 Quick Beginnings for NetWare manual, enter:

```
XVIEW CD_DRIVE\SD4NW\BOOKS FNDNWST.inf /SHOW
```

The XVIEW tool is stored in the SD4W31\DOC directory.

---

**Netware Support and Limitations**

The following section provides details of the support and limitation criteria for TME 10 Software Distribution, Version 3.1.5 running under Novell Netware

**STS APPC Support Not Available**

STS APPC support is not available at this time for:

- Server to server connections
- Server to client connections

**TCP/IP 3.00H Prerequisite**

TCP/IP 3.00H (or later) must be loaded to use the Software Distribution for NetWare product.

**Asynchronous Support**

Asynchronous support is not available at this time.

**Software Distribution User Names**

Do not use a Software Distribution user name that contains more than 8 characters.

**Server Configuration Parameters for TCP/IP Networks**

In the Configuration Parameter dialog of the server installation procedure, configure the server name and workstation address as follows:

- The server name should be equal to the workstation address. It represents the name of the software distribution server.
Installation Scenarios for Netware

- The *workstation address* is the host name of the workstation where the software distribution server is installed. The installation procedure configures them with the same name by default.

- If you want the server name and configuration name to be different, edit the `nvdm.cfg` configuration file of each CLIENT to change the SERVER section as follows:

  ```
  SERVER: <ServerName> <Protocol> <ServerWorkstationAddress>
  ```

  where the ServerName and ServerWorkstationAddress must match the server name and workstation address specified for the server; and the protocol field is TCP/IP.

- If you do not modify the server section of the `nvdm.cfg` file the client cannot connect to the server.

---

## Installation Scenarios for Netware

You can install TME 10 Software Distribution, Version 3.1.5 in attended mode (see below) or unattended mode (see "Installing the TME 10 Software Distribution, Version 3.1.5 for NetWare on a Server in Unattended Mode" on page 33).

### Installing the TME 10 Software Distribution, Version 3.1.5 for NetWare on a Server in Attended Mode

To install the TME 10 Software Distribution, Version 3.1.5 for NetWare on a server in attended mode, perform the following steps:

1. At the NetWare requester, map the NetWare volume where you want to store the product images. (In this scenario, it is assumed that `K:` is the mapped NetWare volume and `E:` is the CD-ROM drive).
2. Create the `SD4NW` directory on the `K:` drive.
3. To download the product images, insert the TME 10 Software Distribution, Version 3.1.5 for the NetWare CD-ROM LK3T-5087-00 into the `E:` drive and enter:

   ```
   xcopy E:\SD4NW\1c3p9U.1c3p9U /s /e K:\SD4NW
   ```

4. At the server console, enter the following command:

   ```
   Load <NW_VOLUME>:SD4NW\SERVER\pinstall
   ```

   The TME 10 Software Distribution, Version 3.1.5 for NetWare *Main Menu* window appears.

5. On the *Main menu*, specify whether you are installing on this NetWare server or another NetWare server, and press *enter*.

   The Destination Directory window appears.

6. In the *Destination Directory* field, enter the name of the destination directory, and press *Enter*. The default value is SYS:SOFTDIST. The CSD Installation Options window appears. If, the TME 10 Software Distribution, Version 3.1.3 is already installed in the target installation directory, the following message appears:

   ```
   The Target directory contains the same release.
   ```

7. Choose one of the following options:
a. Select **Remove the directory contents and install from scratch** and press **Enter**, if you want to remove the previous version of the TME 10 Software Distribution, Version 3.1.3 for NetWare product and install the TME 10 Software Distribution, Version 3.1.5 for NetWare product.

The TME 10 Software Distribution, Version 3.1.3 for NetWare product is removed and a new installation starts as described in Chapter 9, “Installing a TME 10 Software Distribution, Version 3.1.5 for NetWare Server,” in the *TME 10 Software Distribution, Version 3.1.5 for NetWare Quick Beginnings* manual. If you select this option the existing network configuration will be deleted.

b. Select **Refresh the NLMs** and press **Enter**, if you want to copy the NLMs files only.

If you select this option the existing network configuration will be saved.

c. Select **Choose a different target directory** and press **Enter**, if you want to keep the TME 10 Software Distribution, Version 3.1.3 for NetWare product and install the TME 10 Software Distribution, Version 3.1.5 for NetWare product in another directory.

A new installation starts as described in Chapter 9, “Installing a TME 10 Software Distribution, Version 3.1.5 for NetWare Server,” in the *TME 10 Software Distribution, Version 3.1.5 for NetWare Quick Beginnings* manual.

---

**Installing the TME 10 Software Distribution, Version 3.1.5 for NetWare on a Server in Unattended Mode**

In this scenario, it is assumed that the TME 10 Software Distribution, Version 3.1.3 for NetWare plus XR21924 CSD is installed on the server.

To install the TME 10 Software Distribution, Version 3.1.5 for NetWare on a server in unattended mode, perform the following steps:

1. At the NetWare requester, map the NetWare volume where you want to store the product images. (In this scenario, it is assumed that **K:** is the mapped NetWare volume and **E:** is the CD-ROM drive).

2. Create the SD4NW directory on the **K:** drive.

3. To download the product images, insert the TME 10 Software Distribution, Version 3.1.5 for the NetWare CD-ROM LK3T-5087-00 into the **E:** drive and enter:

   ```
   xcopy E:\SD4NW\*.* /s /e K:\SD4NW
   ```

4. Customize the **SOURCE NAME** in the **SERVER.PRF** profile to refer to the NetWare volume where you have stored the product images.

5. At the server console use the following command to build your profile:

   ```
   load nvdm bld <NW_VOLUME>:SD4NW\SERVER\SERVER.PRF
   ```

   This command creates the **SD4NW.XR21925.SERVER.REF.315** change file in your catalog.

6. Use the following command to install the change file on the server:

   ```
   load nvdm inst SD4NW.XR21925.SERVER.REF.315 -w <swd_server>
   ```

7. Use the following commands to stop and start the TME 10 Software Distribution, Version 3.1.5 for NetWare server:

   ```
   load fnndown
   ```
load fnload

When you start the server all the code changes will be applied.

Installing the TME 10 Software Distribution, Version 3.1.5 for NetWare on an Agent in Attended Mode

To install the TME 10 Software Distribution, Version 3.1.5 Agent for NetWare on an agent in attended mode, perform the following steps:

1. At the NetWare requester, map the NetWare volume where you want to store the product images. (In this scenario, it is assumed that K: is the mapped NetWare volume and E: is the CD-ROM drive).

2. Create the SD4NW directory on the K: drive.

3. To download the product images, insert the TME 10 Software Distribution, Version 3.1.5 for the NetWare CD-ROM LCD LK3T-5087-00 into the E: drive and enter:

   xcopy E:\SD4NW\*.*/s/e K:SD4NW

4. At the server console enter the following command:

   load <NW_VOLUME>:\SD4NW\CLIENT\pinstall

   The TME 10 Software Distribution, Version 3.1.5 for NetWare Main Menu window appears.

5. On the Main menu, specify whether you are installing on this NetWare server or another NetWare server, and press Enter.

   The Destination Directory window appears.

6. In the Destination Directory field, enter the name of the destination directory, and press Enter. The default value is SYS:SOFTDIST.

   The Installation Options windows appears. If, the TME 10 Software Distribution, Version 3.1.3. Agent is already installed, in the target installation directory the following message appears:

   The Target directory already contains the product

7. Choose one of the following options:

   a. Select Remove the directory contents and install from scratch and press Enter, if you want to remove the previous version of the TME 10 Software Distribution, Version 3.1.3 for NetWare product and install the TME 10 Software Distribution, Version 3.1.5 Agent for NetWare product.

      The TME 10 Software Distribution, Version 3.1.3 for NetWare product is removed and a new installation starts as described in Chapter 9, “Installing a TME 10 Software Distribution, Version 3.1.5 for NetWare Server,” in the TME 10 Software Distribution, Version 3.1.5 for NetWare Quick Beginnings manual. If you select this option the existing network configuration will be deleted.

   b. Select Refresh the NLMs and press Enter, if you want to copy the NLMs files only.

      If you select this option the existing network configuration will be saved.

   c. Select Choose a different target directory and press Enter, if you want to keep the TME 10 Software Distribution, Version 3.1.3 for NetWare product and install the TME 10 Software Distribution, Version 3.1.5 Agent for NetWare product in another directory.
A new installation starts as described in Chapter 9, “Installing a TME 10 Software Distribution, Version 3.1.5 for NetWare Server," in the *TME 10 Software Distribution, Version 3.1.5 for NetWare Quick Beginnings* manual.

### Installing the TME 10 Software Distribution, Version 3.1.5 for NetWare on an Agent in Unattended Mode

In this scenario, it is assumed that the TME 10 Software Distribution, Version 3.1.3 for NetWare Agent plus XR21924 CSD is installed on the NetWare server.

To install the TME 10 Software Distribution, Version 3.1.5 for NetWare on a server in unattended mode, perform the following steps:

1. At the NetWare requester, map the NetWare volume where you want to store the product images.
   (In this scenario, it is assumed that **K:** is the NetWare volume and **E:** is the CD-ROM drive).
2. Create the SD4NW directory on the **K:** drive.
3. To download the SD315 product images, insert the TME 10 Software Distribution, Version 3.1.5 for the NetWare CD-ROM LK3T-5087-00 into the **E:** drive and enter:
   ```
   xcopy E: \SD4NW\*.* /s /e K: \SD4NW
   ```
4. Use the following command to build your profile:
   ```
   load nvdm bld <output-path>: \client.prf
   ```
   This command creates the `SD4NW.XR21925.CLIENT.REF.315` change file in your catalog.
5. Use the following command to install the change file on the server:
   ```
   load nvdm inst SD4NW.XR21925.CLIENT.REF.315 -w <swd_client>
   ```
6. Use the following commands to stop and start the TME 10 Software Distribution, Version 3.1.5 for NetWare agent:
   ```
   load fnndown
   load fnload
   ```
   When you start the agent all the code changes will be applied.

---

### Using the FNDDBCMP.NLM Tool

Use the FNDDBCMP.NLM tool to compress the files of the TME 10 Software Distribution, Version 3.1.5 for NetWare database. It physically deletes all the records that are logically flagged to be deleted in the database files. In some cases, it can recover corrupted database files.

---

### Using the FNDCFG.NLM Tool

Use the FNDCFG.NLM tool to directly configure, start, stop, and monitor the TME 10 Software Distribution, Version 3.1.5 for NetWare from the console. It is a menu-driven tool.
APARs fixed in TME 10 Software Distribution, Version 3.1.5 for Netware

There are no APARs at this time.
TME 10 Software Distribution, Version 3.1.5 for AIX

This section of the README contains information relevant to systems running AIX

Installation Scenarios for AIX

The following two scenarios explain how to install TME 10 Software Distribution, Version 3.1.5 on an AIX system.

1. To install the product on an AIX Prep. Site, follow Scenario One.
2. To install the product on an AIX Prep. Site without rebooting, follow Scenario Two.

Scenario One: AIX Installation Procedure

On an AIX Prep. Site do the following:

1. Create the directory "/prep" and go there
2. Download inside this directory the binary VM file
   AIXS3150.TARZBIN
3. Rename the above file to AIXS3150.TARBIN.Z using the command
   mv AIXS3150.TARZBIN AIXS3150.TARBIN.Z
4. Uncompress the file AIXS3150.TARBIN.Z using the command
   uncompress AIXS3150.TARBIN.Z
5. Unpack the TAR file using the command
   tar -xvf AIXS3150.TARBIN
6. If the option: netviewdm6000.remoteadmin.obj is installed do the following: Prepare the remote admin CF using
   nvdm bld /prep/profile.admin
7. In all cases (servers and focal points): Prepare the server CF using
   nvdm bld /prep/profile
8. Exit from that directory. (Eg. using cd)
   From any administration site:
9. If the option: netviewdm6000.remoteadmin.obj is installed do the following:
   nvdm inst -vs IBM.NDM6000.REMOTEADMIN.REF.3150 -w<server> -e
   and then proceed with the base installation
10. To install the base fix on the server
    nvdm inst -vs IBM.NDM6000.BASE.REF.3150 -w <server> -e
    nvdm cat IBM.NDM6000.SCRIPT.REF.3150 /prep/linkrbasy -o Procedure
    nvdm act -w<server> -m<server>:IBM.NDM6000.SCRIPT.REF.3150 -f
Installation Scenarios for AIX

11. To remove the fix (in case you need):
   remote admin option
   
   nvdm rem -vs IBM.NDM6000.REMOTEADMIN.REF.3150 -w <server>
   base fix
   nvdm rem -vs IBM.NDM6000.BASE.REF.3150 -w <server>
   nvdm act -w <server> -f

Scenario Two: AIX Non-Reboot Installation Scenario

This section describes an alternative method of installation, which does not require the user to reboot the target system.

On an AIX Prep. Site do the following:

1. Create the directory "/prep" and go there
2. Download inside this directory the binary VM file
   AIXS3150.TARZBIN
3. Rename the above file to AIXS3150.TARBIN.Z using the command
   mv AIXS3150.TARZBIN AIXS3150.TARBIN.Z
4. Uncompress the file AIXS3150.TARBIN.Z using the command
   uncompress AIXS3150.TARBIN.Z
5. Unpack the TAR file using the command
   tar -xvf AIXS3150.TARBIN
6. Exit from that directory. (Eg. using cd)
7. Prepare the CF using
   nvdm bld /prep/profile.nonreboot
   From any administration site:
8. To enable the REMOVABLE option for the base fixpack (optional)
   nvdm cat IBM.NDM6000.BASE.REF.3150.EXECS /prep/_fndexecs.sh
   -o Procedure
   nvdm exec IBM.NDM6000.BASE.REF.3150.EXECS -w<server>
To install the fix on the server as REMOVABLE
nvdm inst IBM.NDM6000.BASE.REF.3150NR -w <server> -e
or to install it as NON REMOVABLE
nvdm inst IBM.NDM6000.BASE.REF.3150NR -w <server> -e -n
To remove the fix (in case you need):
   nvdm rem IBM.NDM6000.BASE.REF.3150NR -w <server>
If the option: netviewdm6000.remoteadmin.obj is installed, from an AIX Prep. Site do the following:
a. a. Prepare the CF using
    
    `nvdm bld /prep/profile.admin.nonreboot`
    
    From any administration site:

b. to enable the REMOVABLE option for the remote admin option fixpack (optional)

    `nvdm cat IBM.NDM6000.REMOTEADMIN.REF.3150.EXECA /prep/_fndexeca.sh`
    
    -o Procedure

    `nvdm exec IBM.NDM6000.REMOTEADMIN.REF.3150.EXECA -w <server>`

c. To install the fix on the server as REMOVABLE

    `nvdm inst IBM.NDM6000.REMOTEADMIN.REF.3150NR -w <server> -e`

    or to install it as NON REMOVABLE

    `nvdm inst IBM.NDM6000.REMOTEADMIN.REF.3150NR -w <server> -e -n`

d. To remove the fix (if necessary):

    `nvdm rem IBM.NDM6000.REMOTEADMIN.REF.3150NR -w <server>`

For further details please see the Server and Client memos, called `AIXS3150.MEMO` and `AIXC3150.MEMO` respectively, that can be found in the directory containing the TARBIN file.

---

**APARs Fixed in TME 10 Software Distribution, Version 3.1.5**

The following list contains APARs which have been fixed in TME 10 Software Distribution, Version 3.1.5

### Updates contained within Fixpack 99/10 to TME 10 Software Distribution, Version 3.1.4 for AIX

This section provides the user with information about updates to the software product that were present in AIX Fixpack 99/10.

- New environmental variable FNDGIMAXTARG.
- MAX SNA CONNS keyword added in nvdm.cfg.
- New environmental variable FNDLOGMSEC.
- fndpc utility.
- Performance Enhancements introduced with the last AIXS3140 package of fixes.
- AUTOMATIC TARGET INVENTORY keyword added in nvdm.cfg.
- New environmental variables HIDE_HIST_CM_PB and FNDPRR.
- fndcount utility.
- New environmental variable GI_SEM_RETRY_TIME
- New environmental variable FND_MAXORDQ
- Memory mapping
DEF12301 - new option -c for stattg command: A new option has been added to the
stattg command:

```
nvdm stattg [target] -c
```

the enhancement allows to receive a state of AVAILABLE only when the Agent running on the target has the same name of the requested target. Otherwise a state of UNKNOWN will be shown.

DEF12184 - PMR10338 - new environment variable SXUSRAUTO: The new environment variable SXUSRAUTO has been added in order to activate the user exit for manual target registration on auto registration.

DEF12181 - PMR21393 - new environment variable FNDGIMAXTARG: The new environment variable FNDGIMAXTARG has been added in order to customize the number of targets shown in the GUI target windows. The variable can be set to a value between 100 and 10000. If omitted the default of 1000 targets is maintained.

DEF11870 - PMR17633 - MAX SNA CONNS keyword in nvdm.cfg: A new keyword has been added in the base configuration file to control the upper limit to the number of simultaneously active SNA connections.

The syntax for the new keyword is:

```
MAX SNA CONNS: <INTEGER VALUE>
```

The default value is 100 while the maximum value is 500. In the original product design the limit was fixed at 100.

DEF11968 - PMR46442 - FNDLOGMSEC environmental variable: A new environmental variable: FNDLOGMSEC has been added to control the format of the timestamp in the fndlog. Set the FNDLOGMSEC variable to any value and the format of the timestamp will switch to:

```
YYYY/MM/DD HH:MM:SS:mmm (mmm: thousandths of second)
```

This format is suitable for performance measurements, but will prevent the log GUI window from showing the log messages. Unset the FNDLOGMSEC variable to have the following format for the timestamp:

```
YYYY/MM/DD HH:MM:SS.
```

This format will allow the log GUI window to show the filtered log messages properly.

DEF11899 - fndpc utility to customize client installp images: The fndpc script which is now found under the /usr/lpp/netviewdm/script directory permits to customize the installp images for SD AIX clients, to have the clients automatically configured to connect to the proper server after installation.

Before installing a Client, the Client installation package should be unpacked at the Server to which the client will eventually be attached. This enables the Base Node Configuration file that will be installed at the Client to reflect the name and TCP/IP Port of the Server.
The process is:

Follow the process outlined in the manual for copying the install package from the medium it is delivered on, to /usr/sys/inst.images (this can be done using SMIT). Then type the following (you must have root authority)

/usr/lpp/netviewdm/script/fndpc

**DEF11600 - PMR42429 MLPERF04 DB - cindex sync mechanism:** Above defect is part of the performance review required by a customer over SD4AIX 3.1.4 during May-July 1997.

**MLPERF04 DB Description:**

- from SDtracing and AixKerneltracing debug, sounds like most (60%) of the time spent in a typical FP loop (fndrht), is spent inside cindex sync mechanism while accessing DB. Cindex sync mechanism is implemented in different way (relaying on OS caching, and unix sync activity), if customer set the following statement inside "/etc/environment" file. "cindex_sync_freq=deferred".

Effect: both from an atomic time perspective, and from a distribution-wide perspective, performances were increased by nearly 60%. For users that are likely to "power-off" their AIX system for "crash testing", a set of "sync" commands are now suggested to preserve DB integrity.

**DEF11601 base_sv PMR42429 MLPERF05 STS - permanent connection**

**A:** The above defect is part of the performance review required by a customer over SD4AIX 3.1.4 during May-July 1997.

**MLPERF05 STS Description:**

- during a typical customer distribution (1FP addressing 1200 requests to remclients, via 3 intermediate nodes) fndsts tasks are serving, continuously, 3 remote connections, but the sts_task and connections going up/down game a sensible overhead in the distribution.

Sensible improvement could be achieved (at the cost of having "permanent" connections opened, and one sts task for each connection being served), by setting (now) the environment variable "sts_perm_conn=yes" inside "/etc/environment".

Setting: - set consistently sts_idle_time on all network levels - set above env_var where above behaviour wanted (suggestion is FP and SERVERS)

Effect: just few sts tasks are started once, kept up in case of constant traffic rate, and do all the work for the connection they serve.

Customer without constant traffic rate per connection, may want to use the old (default) behaviour to save memory usage (number of sts tasks).

If new behaviour being used, and sts_idle_time now set consistently on the different network layers, remote end may shut connection, and sts task get warning msg RX019W.
IX71516 - Def11679 - Automatic target inventory: A new keyword will be added in the nvdm.cfg configuration file at server:

AUTOMATIC TARGET INVENTORY: YES/NO

Set to NO an automatic inventory will not be scheduled by addtg command. Set to YES an automatic inventory will be scheduled by addtg command. The default is NO.

This modification does not change the AUTOMATIC TARGET REGISTRATION: if this is set to yes, then the automatic inventory will be always scheduled

IX72797 - Def11695 - Target history performance using GUI: A new environmental variable HIDE_HIST_CM_PB has been introduced: if this variable is set (i.e. by command export HIDE_HIST_CM_PB=YES) the performances are improved but the CM push button on the dialog are not displayed.

IX78694 - Def 1812 - Process Report Rate and fndcount utility.: The new environmental variable FNDPRR has been added in order to improve report processing management.

Each report is first stored in the Request Handler Input Queue (RHIQ), then it's transferred into the Request Handler Ordered Queue (RHOQ). The product keeps on reading reports from RHIQ until the queue is empty: so if many reports comes back to the IQ the product locks some resources until there are reports in the queue.

The FNDPRR variable defines the number of reports processed before the product stops reading the RHIQ. Therefore the product will keep on reading reports from the RHIQ until there are no reports in the queue OR until the number of reports read without interruption is less or equal to FNDPRR.

The minimum value is 1 the maximum is 65535: if no value is set the product behaviour will remain unchanged.

The value of FNDPRR should be tuned to ensure a correct balancing of report processing and request processing. Low FNDPRR values ensures that, when there are many reports in the RHIQ, the reports/requests in the RHOQ will be processed in a reasonable amount of time.

In conjunction with this new env-variable it has been added the fndcount utility: it returns the actual number of entries in the Request Handler Input and Ordered queues, avoid the issuing of the command 'nvdm lsrq' to obtain the above informations. The fndcount utility is installed on the tool directory.

DEF11754 - IX76744 - New environmental variable GI_SEM_RETRY_TIME: The new environmental variable GI_SEM_RETRY_TIME has been added: it defines the time the GUI has to wait to be started before logging the error message FNDGI079E. The time must be specified in seconds.

DEF11795 - New environmental variable FND_MAXORDQ: The new environmental variable FND_MAXORDQ has been added in order to customize the maximum number of report/request that can be stored in the Request Handler Ordered Queue. The minimum value is 500, the
default value is 2500. The maximum value is equal to the number that can be held in 4 bytes (about 4Gi).

**Memory Mapping I/O**

Software Distribution constantly uses two I/O structures to manipulate and to share data: the queues and the DB. This causes the product to be I/O bound, rather than CPU bound. Logically, the speed in which application instructions are processed on a system is proportionate to both the number and the speed of access operations required to obtain data.

The absolute fastest access is obviously to store data in program-addressable memory, and essentially this simple statement is the basis to implement memory mapped I/O.

With these premises, we implemented memory mapped I/O only on two database files because of ongoing enhancement about queue capacity: the risk is to have too large memory mapped areas. It was a real modular fix at low level that can be easily inserted and extracted.

This fixpack provides two new libraries: "libfnddb.a.server.map" and "libfnddb.a.admin.map". Depending on the option installed users should link the libfnddb.a library to one of the above files in order to have memory mapping I/O on its workstation. So on /usr/lpp/netviewdm/bin directory the user should issue:

```
ln -sf /usr/lpp/netviewdm/bin/libfnddb.a.admin.map libfnddb.a  
(Remote Admin Option installed)
ln -sf /usr/lpp/netviewdm/bin/libfnddb.a.server.map libfnddb.a (Only Base Option installed)
```

In conclusion, mapping can be used to reduce the I/O overhead involved in writing and reading the contents of files. Once the contents of a file is mapped to an area of user memory, the file may be manipulated as if it were data in memory, using pointers to that data instead of input-output calls. The copy of the file on disk also serves as the paging area for that file, saving paging space if necessary.

The only exposure in losing vital product data is in case of power failure but this kind of exposure is ALWAYS present in usual buffered I/O.

Tests on trivial commands like database initialization during the start, submission of requests, listing of database objects showed a gain in performance of values between 20-30%, but consider that more the performed activities are database oriented, more is, obviously, the gain.

The two database files mapped in memory are "cmstatus" and "userreq". To have an evaluation of the growth in the sizes of these database files (and so to evaluate which is the required memory), the following average values are available:

* userreq nf = number of NvDM commands in the plan nd = number of domain addressed per entry/function nt = number of targets addressed per domain

space needed in Kb = 10 + (15 * nf) + (2 * nd) + (0.5 * nt)

* cmstatus
160 bytes * (number of targets) * (number of change files)

For Example: If a plan contains 10 NVDM commands, is sent to two domains, each with fifty targets the memory required would be:

\[ 214Kb = 10 + (15 \times 10) + (2 \times 2) + (0.5 \times 100) \]

**Updates from TME 10 Software Distribution 3.1.4 + Fixpack 99/10 to TME 10 Software Distribution, Version 3.1.5 for AIX**

AIXS3150 package solves the following Software Distribution for AIX problems:

- PJ24040 - Def10814 - Send fails for not enough disk space with errors FNDCC007E and FNDCM179E
- IX67385 - Def10995 - Missed 'Activate' and 'Inventory' requests
- IX67388 - Def11092 - Inventory.dataAcquired token missed in the GUI
- IX66706 - Def11170 - 'Not Authorized' value for Change Management Status is missed defining a rule for a dynamic group
- IX67849 - Def11204 - Deleting targets owing to some group the trggrp file Def11369 is corrupted.
- PMR6281X - Def10840 - Error message FNDCO144E: function ... trying to free a memory at address ....
- IX67848 - Def11380 - Invalid compression info in SNA/FS format
- IX65982 - Def11047 - For function EXECUTE FILE in a Plan the window 'Select Global name with filter' is displayed instead of 'Select Import File'
- IX66281 - Def10787 - 'Ignore' option for ACCEPT in a plan
- IX66485 - Def11149 - Updating a plan there are problems with VERIFY CM
- IX67594 - Def11196 - Slow CM history display Def11227
- IX68362 - Def11334 - ODM problem installing installp CF
- IX66779 - FNDCM321E message
- IX68618 - Def11431 - Request details after select an object name as filter
- IX67715 - Def11439 - Double entries in the product list
- IX67716 - Def11440 - Products title cut
- IX67594 - Def11445 - Slow performance in CF History
- IX67282 - Def11457 - Inventory PB not enabled
- IX62960 - Def11459 - Trailing black cut off
- IX68805 - Def11482 - Wrong limit for 'Disk Space'
- IX68675 - Def11488 - Incorrect list of a plan
- IX68777 - Def11507 - Requests remain in ordered queue
- IX68418 - Def11509 - Plan step not starting
APARs Fixed in TME 10 Software Distribution, Version 3.1.5

- IX68420 - Def11511 - fndrhpt dumps after FNDRQ068W message
- IX66178 - Def11513 - Targets filter using a rule....
- PJ24729 - Def11529 - DVASTS dumps on WAN connection
- IX69271 - Def11550 - Activate with later execution
- IX69301 - Def11558 - Initiate with send option from NvDM/MVS fails
- PJ23971 - Def11559 - LZW error
- IX69270 - Def11567 - nvdmgi process not closed
- IX69481 - Def11569 - GUI aborts installing a CF on 850 targets (about)
- IX69411 - Def11570 - Changefile names > 32 char are cut in request window
- IX69483 - Def11575 - Performance problem for Scheduler process
- IX69597 - Def11581 - Problems with (about) 66 targets Groups
- IX69076 - Request Handler abort
- IX69557 - Def11590 - Report loop
- IX69612 - Def11582 - HW inventory parameters not added
- IX69034 - Def11592 - Incorrect CM status display
- PMR06652 - Def11373 - DHCP: sw_access_sem errmp=6 for duplicate IP address
- IX68779 - Def11508 - Activate reports processed slowly
- PJ24644 - Def11468 - Error during compression of small files
- IX69931 - Def11606 - Error in parsing routetab
- IX69654 - Def11607 - Blank window showing a recursive plan by GUI
- IX68885 - Def11608 - Error in file_name with CREATE DIRECTORY
- IX70164 - Def11610 - Abort creating a group > 1000 targets
- IX70819 - Def11614 - updtg allows duplicate rgn.ren
- IX70444 - Def11615 - rentg by GUI fails at second time
- IX70817 - Def11618 - RH abort with activate report
- IX70765 - Def11619 - CTRL-C cuases hang
- IX70618 - Def11620 - FNDRQ116W without target name logged
- IX70776 - Def11625 - invalid size for RR request block
- IX67775 - Def11627 - CM status not shown for a FP
- IX70980 - Def11629 - Invalid correlator in FNDRS015I and FNDRS011I
- IX70900 - Def11630 - Narrow status column for File History
- IX71018 - Def11631 - fndtiv fails if aliases in hostname
- IX71002 - Def11634 - Auto-delete of targets fails from CC Server at FP
- IX71155 - Def11640 - History dialog performances
APARs Fixed in TME 10 Software Distribution, Version 3.1.5

- IX66706 - Def11648 - 'Not Authorize' in filter rule
- IX71479 - Def11650 - Deleting a 'Scheduled' ExecPlan
- IX71658 - Def11651 - Installation Parameter deleted
- PJ24729 - Def11529 - DVASTS dump om WAN connections
- IX71413 - Def11639 - destination field of userexit not filled
- IX71328 - Def11642 - fnshrpt abort: fatal error 324, rc 104
- IX70306 - Def11656 - rtrvf function into a plan profile
- IX71451 - Def11657 - fnshr loop
- PJ24870 - Def11602 - Multiple CF build commands
- IX71452 - Def11654 - Target name truncated to 25 characters
- IX68989 - Def11681 - Exec plan against an empty dynamic group
- IX71516 - Def11679 - Automatic target inventory
- IX72183 - Def11685 - Error adding targets to a group
- IX72065 - Def11682 - Memory leak problem
- IX72317 - Def11688 - Problems using GUI to enter userid and password
- IX72797 - Def11695 - Target history performance using GUI
- IX72354 - Def11692 - Install a CF with a wrong post-install
- IX72632 - Def11690 - Wildcard at beginning of target name
- IX73203 - Def11719 - Wrong statistics listing requests
- IX72721 - Def11700 - Scheduler dumps after prioritizing requests
- IX73204 - Def11699 - Expired STS requests are not delete immediately
- IX73749 - Def11728 - Dynamic group performance
- IX73748 - Def11732 - Invalid status "Status does not exists"
- IX73175 - Def11727 - Gui dumps filtering targets
- IX73202
- IX74403 - Def11746 - Renaming Server using GUI
- IX74035 - Def11744 - Error submitting inventory request using GUI
- IX74003 - Def11741 - fnshrpt abort deleting a request
- IX74002 - Def11740 - Plan phase remains in waiting status
- IX74276 - Def11733 - Invalid 'CONDITION' tag in a CF profile
- IX72671 - Def11696 - Connection failure with a V 1.x clients
- IX75065 - Def11748 - STS hangs if $(TARGETLIST) greater then 4000 targets
- IX75176 - Def11773 - Backup Restore Tool during production activities
- IX74460 - Def11747 - nvdm stat does not show all the connections
• IX71978 - Def11678 - Remote queues remain in hold status after start
• IX73201 - Def11725 - The restart of a plan doesn't work
• IX78694 - Def11812 - Queue shuffling problem
• IX75636 - Def11815 - Hold queue status after nvdm start
• PJ25472 - Def11824 - Nvdm commands from a SUNOS agent
• IX78179 - Def11826 - Duplicate fetch reports cause fndrhpt abort
• IX76067 - Def11830 - Incorrect date accepted
• IX77792 - Def11831 - fndrhpt aborts after message FNDRQ101E
• IX75785 - Def11832 - Messages not logged on client during an installation
• IX77769 - Def11833
• IX78224 - Def11834 - nvdm stattg command permission
• PJ25500 - Def11835 - Server queue stops when the execution time of an activation is submitted from MVS Host
• IX78277 - Def11836 - Duplicate request number wrongly generated
• IX78346 - Def11837 - Command line hangs up when session is disconnected
• - Def11846 - Change file status not correctly updated
• IX79160 - Def11862 - Report for execf request flows also to the FP
• IX79331 - Def11864 - uicfg file name equal to AIX userid
• IX73760 - Def11781 - Scheduler aborts after message FNDRS012
• IX76247 - Def11801 - Messages not logged in GUI windows
• IX77647 - Def11828 - Autoregistration problem
• IX75214 - Def11776 - Internal state error stopping scheduler with fndsts active
• IX76069 - Def11796 - Problems with RETRVF using GUI
• IX75789 - Def11378 - FNDRX102W messages
• IX75939 - Def11782 - Performances in CM and FS functions using GUI
• IX76186 - Def11800 - Wrong scheduled status
• IX75146 - Def11783 - Wrong 'Destination Filename' in SEND FILE :w
• IX76744 - Def11754 - GUI Timeout
• IX74664 - Def11763 - Format Error on SNA file transfer
• IX79630 - Def17633 - MAX SNA CONNS keyword in nvdm.cfg for the maximum number of simultaneous SNA connections
• IX88807 - Def12118 - Invalid data type used in NG queues
• IX89234 - Def11888 - Using the not before/not after switches with dates greater than Y2K gives FNDCL036E
- IX89118 - Def11955 - fnndni abort with no message in the fnndlog nor in the AIX error log
- IX88854 - Def11968 - The log GUI window doesn't show any message
- IX88785 - Def12062 - Server hang when the CLI receives SIGHUP
- IX82241 - Def11905 - The OBJECT SIZE field in SNA/FS structure is filled with dirty characters
- IX89126 - Def11934 - OS/2 EA's are lost in SNA encoding
- IX87525 - Def11999 - lsq command shows no distribution on the queue
- IX73795 - Def11885 - fnndhpt abort with error 129, rc = 1e
- IX80304 - Def11886 - Argument list too long in fnndcres.bsh when issuing nvdm reset
- IX81603 - Def11897 - FNDRQ174E processing install report on Middle Managers
- IX81165 - Def11899 - fnndpc script to customize SD for AIX client installp images to automatically configure nvdm.cfg
- IX81871 - Def11900 - File corruption on APPC
- IX79163 - Def11863 - Too many entries in the target window
- IX85740 - Def11971 - STS connection hang
- IX86482 - Def11980 - target installation parameters are wrongly updated
- IX86948 - Def12008 - alert.cfg is not properly updated by fnndupdal
- IX89235 - Def12012 - Core dump during nvdm ptyq operation
- IX88560 - Def12013 - nvdm delcm and lscm commands do not properly handle wildcards.
- IX88833 - Def12044 - Failed to read target database traying to perform a send operation from the GUI
- IX88554 - Def12053 - Transmission controller aborts uncompressing SNA compressed files
- IX87431 - Def12060 - fnndhpt aborts after message FNDRQ101E processing an installation report
- IX88786 - Def12061 - The GUI CM history window aborts when displaying more than 20000 records
- IX88684 - Def12065 - Period of activity cannot be changed from GUI
- IX88361 - Def12067 - AIX uninstall and remove drivers performances
- IX88972 - Def12070 - fnndhpt aborts with unexpected error 2008 at trap 54
- IX82648 - Def12071 - Segmentation fault when using nvdm stat and nvdm lsq
- IY01155 - Def12155 - Nvdmgi consumes a lot of CPU time, refreshing catalog
- IY02313 - Def12167 - Invalid data type in rs_report FNDRS012E logged
- Def12185
- IY02950 - Def12178 - Errors FNDFS030E and FNDUC315W building a plan
- IY03324 - Def12180 - FNDUC343E error changing plan profile
- IY03233 - Def12181 - Gui truncation of target windows after 1000 targets
- IY03501 - Def12182 - FNDEN062E error at trap 14/18/22 with rc=101/104
• IY04227 - Def12184 - User exit for automatic target registration
• IY04900 - Def12213 - Memory leak of fndcmps agent

**Last Memo Update**

• IX76839 - Def12286 - DELETE command in a plan doesn't work on SNA connection
• IY08364 - Def12289 - User Exit doesn't start on auto registration
• IY08654 - Def12288 - Command lscm \^ -w \^ fails with error FNDCL122E
• IY06212 - Def12230 - Request Handelr aborts on a cancel of a deleted request
• IY06286 - Def12250 - nvdmgi GUI process not correctly terminated when the main GUI task receive a HANGUP signal
• IY07300 - Def12277 - "Select Target with Filters" window is missing from the "Filtered targets" panel
• IY08580 - Def12278 - Files not removed if present in other installation
• IY08672 - Def12278 - Files not removed if present in other installation
• IY08585 - Def12279 - Command line returns RC=0 even in case of error
• IY08583 - Def12279 - Command line returns RC=0 even in case of error
• IY08641 - Def12005 - WIN98 Target OS added
• IY08642 - Def12199 - Completion reports for execf commands
• IY08652 - Def12207 - FNDCLB87E during build of change file
• IY08653 - Def12212 - Problem with global names greater than 49 chars.
• IY09159 - Def12285 - Dynamic change files installed even if the dynamic condition not satisfied
• IY09155 - Def12216 - Signal 11 during catalog cancellation
• IY10296 - Def12124 - Target status AVAILABLE instead of BUSY in GUI
• IY09156 - Def12193 - Unbuild operation creates empty files instead of directories
• IY07019 - Def12091 - Domain address disappear adding a target from GUI
• IX71101 - Def11636 - Syntax error in /ETC/TRCFMT
• IX88361 - Def12067 - Performance problem on AIX generic remove and uninstall drive
• IX89234 - Def11888 - Y2K dates in common routine
• IY12310 - Failing to update target via GUI
• IY12741 - Def12267 - FNDRB147E when issuing the RELQ command
• IY06841 - Def12217 - Software Distribution for AIX Server GUI truncates a large display of local queues
• IY07009 - Def12141 - FNDCO034E requesting history from GUI of a not available target
Program Number: 5639-B06
5639-B03
5639-B02
5639-B01
5765-476
5639-B05
5765-477
5639-A99
5639-A97
5639-A98

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