

**Read Before Installing
MPE/iX Release 7.5 PowerPatch 2
Software Release C.75.02**

HP e3000 MPE/iX Computer Systems

Edition 3.1



**Manufacturing Part Number: 30216-90353
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2. Patch Information for MPE/iX 7.5 PowerPatch 2

1 Information You Need Before Installing MPE/iX 7.5 PowerPatch 2

Important CR Information

Please take note of the updated CR information.

CR# JAGae78289 / 8606315566

:STMSHUT sometimes unable to completely close daemon

During certain installations of the C.65.04 PowerPatch, an installation job has been found to fail due to the inability of the diagnostic monitor to completely shutdown. The symptom of the problem is that the job I0231900 will abort, which will trigger the installing tool (usually HPINSTALL) to systematically abort. Within the spoolfile of this jobstream, the following failure text is seen:

```
:purge /usr/lib/libmcats.sl
EXCLUSIVE VIOLATION: FILE ACCESSED EXCLUSIVELY (FSERR 91)
Unable to purge file "/usr/lib/libmcats.sl". (CIERR 384)
REMAINDER OF JOB FLUSHED.
```

This condition can be resolved, and the installation can be resumed, by following these steps (user entries are in **bold** below):

1. Kill the diagmond daemon.

From **MANAGER.SYS**,

```
:run sh.hpbin.sys
$ ps -ef | grep diagmond
```

The above command should return a line similar to this:

```
0 65584 1 0 Jan 01 1:10 /usr/sbin/stm/uut/bin/sys/diagmond
  ^^^^^
```

Note this number. It is the pid number of the process that needs to be killed. Issue the kill command for this pid:

```
$kill 65584 (for pid# 65584)
```

Now, verify that the process has been aborted, by repeating the 'ps' command:

```
$ ps -ef | grep diagmond
```

There should not be any entries returned; merely a line-feed. If the entry is still showing, use this kill command:

```
$kill -9 65584 (for pid# 65584)
```

2. Resume the installation. Run the installer program again. Make sure you are in the **INSTALL** group, and issue the run command.

```
:run hpinstal
```

The installation process will detect where it left off, and will resume from that point.

CR# JAGaf26937 / 860636633

TermDSM C.05.01.002 port reset doesn't work when auto-restart = 'Y'

One of the new features added to Host-based DTC Management is the ability to enable automatic restart of the X.25 and PAD protocols on the SNP cards installed in the DTCs. This feature is enabled by setting the field "AutoRestart = 'Y' " on the DTC configuration screen in NMMGR. A problem has been found when this feature is enabled.

If TermDSM is used to initiate a DTC DUMP on a DTC where the Auto-Restart feature is enabled, then TermDSM displays the following error after the dump is completed, but before TermDSM returns to the user prompt:

```
***** TERMDSM C.05.01.002 UNEXPECTED CONDITION *****
Severity=non-fatal Location=9 Reporting module is Special.
Parm1= hex 000000C9= decimal 201
Parm2= hex 0000003C= decimal 60
Parm3= hex FFFFFFFE48= decimal -440
Parm4= hex 00000001= decimal 1
Parm5= hex FFFFFFFF= decimal -65537
Parm6= hex 000001CC= decimal 460
```

After this message is displayed, the following problems will occur:

- The DTC will not be able to establish any X.25 or PAD connections.
- TermDSM will not be able to communicate with the DTC Manager and messages similar to the one shown above will be displayed. The error display will include the following line:

```
Severity=non-fatal Location=9 Reporting module is Special.
```

- DTCCONTL will not be able to communicate with the DTC Manager and will hang for about 8 minutes and then return the following error:

```
CTL ERROR: System error: bad Extend_receive status received,
info = 1010, subsys = 122. (CTLERR 106)
```

These problems will persist until the DTC is reset by cycling the power OFF then ON. Once the DTC is power cycled, the DTC will be automatically re-downloaded. The DTC download is complete when you see the following messages on the system console:

```
19:13/40/DTCM C0501001 download started for DTC address 080009xxxxxx
19:14/40/DTCM C0501001 code download completed for DTC address 080009xxxxxx
```

The DTC will be able to re-establish X.25 and PAD connections about three minutes after these messages are displayed.

Predictive Changes SYSSTART during UPDATE

Due to some customer sites having multiple startup directives in `SYSSTART.PUB.SYS`, the job that installs Predictive has been modified to recognize this. Previously, this Predictive job would just add the "STREAM JPSMON.PRED.SYS" line to the end of `SYSSTART`. Now, the job modifies the `SYSSTART` file as follows:

1. Gather `STREAMS` device and printer queue for `STREAMS` and `OPENQ` commands if needed.
2. If `SYSSTART.PUB.SYS` does not exist, a new `SYSSTART` file is created on ldev 1 with the following contents:

```
STARTUP
**
WARMSTART
OPENQ LP
STREAMS 10
STREAM JPSMON.PRED.SYS
**
COOLSTART
OPENQ LP
STREAMS 10
STREAM JPSMON.PRED.SYS
****
```

3. If a `WARMSTART`, `COOLSTART`, `RELOAD` or `UPDATE` section exists and has commands, AND there are no other `STREAM` commands AND there are no `STARTSESS` to `OPERATOR.SYS` commands, then do not modify the `SYSSTART` file.
4. If there are `STARTSESS` commands but no `STARTSESS` to `OPERATOR.SYS`, then do not modify the `SYSSTART` file.
5. The command `STREAM JPSMON.PRED.SYS` is removed from the `STARTUP` section and added to the `WARMSTART` and `COOLSTART` sections. If no `WARMSTART` and `COOLSTART` sections exist, they are created and contain these commands:

```
**
WARMSTART
OPENQ LP
STREAMS 10
STREAM JPSMON.PRED.SYS
**
COOLSTART
OPENQ LP
STREAMS 10
STREAM JPSMON.PRED.SYS
****
```

If the file `NOSYSST.PRED.SYS` exists, it prevents the Predictive job from doing any `SYSSTART` file processing during installation. Therefore, if you do NOT want the "STREAM JPSMON.PRED.SYS" command added to your `SYSSTART` file, create the `NOSYSST.PRED.SYS` file with a build command.

```
BUILD NOSYSST.PRED.SYS;DISC=1
```

Host-Based DTC Management Features

As you may be aware, the Open View DTC Manager (OVDTCMgr) application on the PC was discontinued October 2002. In MPE/iX 7.5 Power Patch 2, the DTS subsystem has been enhanced to provide functionality needed to continue support of the DTC connectivity required by the HP e3000 users. The features added to the DTS subsystem had previously been available when the OVDTCMgr platform managed the DTCs and PC-Based Management was configured on the HPe3000, but not when the HP e3000 host managed the DTCs and Host-Based Management was configured.

These enhancements required changes to the data structures for the DTS subsystem in the NMCONFIG file and some NMMGR screens. These enhancements have been designed to minimize the additional steps you need to do to install and migrate to this release. This article describes some features and behaviors of this version of the DTS subsystem that you should know about before you install this release.

CAUTION:

Before you update your system to this release it is recommended that you run NMMGR and perform a DTS Validation of the Host-Based DTC Management tree in your NMCONFIG file to insure that there are no validation errors. If you have not run DTS Validation prior to the update and NMMGRVER is unable to convert your NMCONFIG file to the latest version then you can copy the file to another HP e3000 that is still running a prior supported release and run DTS Validation. Copy the file back to this updated system and re-run NMMGRVER.

The important DTS features and behaviors in this release are the following:

- Although it is now an unsupported configuration, the OVDTCMgr platform will still be able to manage the DTCs for connection to the HP e3000. HP recommends that you migrate your DTS configuration to Host-Based management at the earliest opportunity.
- When you reboot your system after updating with this release, DTS will recognize that the data in the DTS subsystem of the NMCONFIG file is in the old format but will still create a valid DTS configuration. DCC will display the following warning message.
`DCC WARNING P-L, NMCONFIG is previous version. Run NMMGRVER. (DCCWARN 52)`
The DTS configuration created will be identical to what was created prior to the update.
- In NMMGR, if you press the **[DTS]** key at the Main screen and attempt to display the DTS configuration before running NMMGRVER, instead of going to the DTS configuration screen, you will see a screen that informs you that the DTS subsystem has been updated. The actions you can take are described later in this article.
- You will use the version of NMMGRVER installed with this release to update the NMCONFIG file to the latest format and then perform a DTS Shutdown and Restart.
- After using NMMGRVER to migrate the configuration file to the latest format, DTS Dynamic Configuration will be disabled until a DTS Shutdown and Restart or system reboot is performed.

Use one of the following two processes described below to update the NMCONFIG file so that NMMGR will allow you to make new changes to the DTS configuration and to re-enable DTS Dynamic Configuration.

1. Run NMMGRVER from the Command Interpreter.

You can run NMMGRVER from the CI as you have on earlier releases to update the format of the NMCONFIG file:

a. Run NMMGRVER to update the NMCONFIG file to the latest format:

```
:run nmmgrver.pub.sys
Utility to convert NM configuration files to be compatible with NMMGR
B.07.06.
Fileset to be scanned? NMCONFIG.PUB.SYS
(Enter the file name of your NM configuration file. Then confirm the conversion.)
OK to convert NMCONFIG.PUB.SYS? Y
```

b. Perform a DTS Shutdown and Restart:

```
:dtccntrl func=shutdown forced=y
:dtccntrl func=restart
```

2. Run NMMGRVER from within NMMGR.

You can run NMMGRVER from within NMMGR to update the NMCONFIG file and continue with changes to the DTS configuration without leaving NMMGR:

a. Run NMMGR and press the **[DTS]** key at the Main NMMGR screen, you will see a screen that informs you that the DTS subsystem has been updated. Press the F1 **[Do Convert]** key.

This key will launch NMMGRVER and you will see:

```
Utility to convert NM configuration files to be compatible with NMMGR
B.07.06.
```

```
Fileset to be scanned? NMCONFIG.PUB.SYS
```

(Enter the file name of your NM configuration file. Then confirm the conversion.)

```
OK to convert NMCONFIG.PUB.SYS? Y
```

b. Note the dialog on the screen to verify that the conversion was successful and enter **[Return]** to return to NMMGR.

c. Press the **[Prior Screen]** key to return to the Main NMMGR screen and then press the **[DTS]** key to resume your DTS configuration changes.

d. Validate the NMCONFIG file and exit NMMGR.

e. Perform a DTS Shutdown and Restart in order for the configuration changes to take:

```
:dtccntrl func=shutdown forced=y
:dtccntrl func=restart
```

After you run NMMGRVER and if your system is using Host-Based Management, your data will be converted to the equivalent configuration in the new format. If your system is currently using PC-Based Management, you will see no changes to your configuration.

For more information on the features and behaviors of these enhancements, see the article "Enhanced Host-based DTC Management Functionality" in the *Communicator for MPE/iX Release 7.5 Power Patch 2*.

Complete documentation and information to help you migrate your configuration to Host-Based Management can be found in the updated *Configuring and Managing Host-Based X.25 Links* manual that is available online from:

<http://www.docs.hp.com/mpeix/onlinedocs/36939-90057/36939-90057.pdf>

Samba 2.2.8a / SMBMXG3C

Migrating from Samba 2.0.7

Users of Samba 2.0.7 need to be aware of the following issues before installing Samba 2.2.8a. For complete information about Samba 2.2.8a, please *see* <http://jazz.external.hp.com/src/samba/> (or </usr/local/samba/ReadME.mpe> after this patch has been installed).

Streamlined Installation Layout (Some Files Have Moved)

Previous versions of Samba installed a few files into the SAMBA.SYS group and the remaining files into the SAMBA account. Starting with Samba 2.2.8a, all files are now installed into the SAMBA account in a version-specific group, i.e. SMB228A.SAMBA. The Samba 2.2.8a installation script does not modify any of the old Samba files in the SAMBA.SYS group.

The Samba 2.2.8a installation script modifies the `/usr/local/samba` symbolic link to point to the new `/SAMBA/SMB228A` file location. A new symbolic link of `/SAMBA/CURRENT` is created to point to the same location.

If you have any jobs or UDCs or command files etc that refer to the old SAMBA.SYS files, you will need to modify these old references to point to the new file locations. You should use either of the symbolic links to do this. I.e. instead of `SMBD.SAMBA.SYS`, you can refer to `SMBD.CURRENT.SAMBA` or `/usr/local/samba/SMBD` or `/SAMBA/CURRENT/SMBD`.

Existing 2.0.7 Configuration Files are Compatible with 2.2.8a

Your existing 2.0.7 configuration files are compatible with 2.2.8a. Copy them from the old `/SAMBA/SMB207/lib` location to `/usr/local/samba/lib` or `/SAMBA/CURRENT/lib`.

In order to take full advantage of the new 2.2.8a functionality, it is recommended that you use `/usr/local/samba/lib/samp-smb.conf` as a template for creating a new `smb.conf` file.

New "Full-Power" Model Enabled by Default

Previous versions of Samba for MPE required manually adding PM capability to the MGR.SAMBA user in order to enable "full-power mode" where Samba can authenticate against traditional MPE user & account passwords of the format `USERPW, ACCTPW`. This functionality is now enabled by default starting with Samba 2.2.8a.

Full-power mode is the recommended mode of operation. Besides the convenience of authenticating against traditional MPE passwords, full-power mode also enables Samba to `setuid()` to the authenticated user so that all file accesses occur with the authenticated user's access rights.

Full-power mode under Samba 2.2.8a is enabled for Samba program files if they are owned by `MANAGER.SYS` but reside in the SAMBA account. The full-power program files are currently `NMBD`, `SMBD`, and `SWAT`. Since PM capability on the MGR.SAMBA user is no longer required for full-power mode, it is removed by the Samba 2.2.8a installation script.

Migrating Back to Samba 2.0.7

If after installing Samba 2.2.8a you decide that you want to migrate back to Samba 2.0.7, perform the following steps:

```
:HELLO MANAGER.SYS  
:PURGELINK /usr/local/samba  
:NEWLINK /usr/local/samba,/SAMBA/SMB207  
:ALTUSER MGR.SAMBA;CAP=+PM
```

(if you were previously using Samba 2.0.7 in full power mode)

WebWise Apache in FOS

For MPE/iX 7.5, WebWise server has been updated to version A.03.00 and replaces Apache in FOS as a no-extra-cost bundled product.

Migrating from Previous Versions of Apache

The `/APACHE/PUB/JHTTDP` job stream file from previous versions of Apache is not compatible with HP WebWise MPE/iX Secure Web Server. You must manually create a new JHTTDP job stream file by using the WebWise `/APACHE/PUB/JHTTDP.sample` template.

The `/APACHE/PUB/conf/httpd.conf` configuration file from previous versions of Apache may or may not be compatible with WebWise, depending on the previous Apache version:

- 1.3.4 -- NOT compatible. You must use `/APACHE/PUB/conf/httpd.conf.sample` as a template to create a new `httpd.conf` file.
- 1.3.9 -- compatible, but SSL functionality will not be enabled. To enable SSL functionality, you MUST use `/APACHE/PUB/conf/httpd.conf.sample` as a template to create a new `httpd.conf` file.
- 1.3.14 -- compatible, but SSL functionality will not be enabled. To enable SSL functionality, you MUST use `/APACHE/PUB/conf/httpd.conf.sample` as a template to create a new `httpd.conf` file.

In addition to updating `/APACHE/PUB/conf/httpd.conf`, it is strongly recommended to update all of the configuration files in the same directory by using the corresponding `*.sample` files.

Migrating from WebWise A.01.00

HP WebWise MPE/iX Secure Web Server version A.03.00 was designed to be a drop-in replacement for Apache, and does not attempt to upgrade or migrate any files from the WebWise A.01.00 `/APACHE/SECURE` directory tree.

You must manually use the A.03.00 `*.sample` files in the `/APACHE/PUB/conf` directory tree to create new standard configuration files, and then propagate any local customization that you made in the A.01.00 `/APACHE/SECURE/conf` directory tree.

You will need to copy your server key and certificate from the old A.01.00 locations of

`/APACHE/SECURE/conf/ssl.key/server.key` and
`/APACHE/SECURE/conf/ssl.crt/server.crt`

to the new A.03.00 locations of

`/APACHE/SECURE/conf/ssl.key/server.key` and
`/APACHE/SECURE/conf/ssl.crt/server.crt`.

Any A.01.00 CGI applications in `/APACHE/SECURE/cgi-bin` or any data content in `/APACHE/SECURE/htdocs` can either be moved to the corresponding A.03.00 directories in `/APACHE/PUB`, or left in place after adjusting the new A.03.00 configuration files to refer to the old A.01.00 locations.

WebWise A.01.00 accessed web page content as the user `SECURE.APACHE`, but WebWise A.03.00 accesses web page content as the user `www.APACHE`. This is the same user as used by Apache A.02.00.

2 Patch Information for MPE/iX 7.5 PowerPatch 2

The following table provides a list of patch index numbers and a description of the patch.

Patch Index	KPR Number	Description
ACCHD86A	8606-302747 8606-239912 8606-292154 8606-279496 8606-298352 8606-309694 8606-344129 8606-359842 8606-359806	GENERAL FIXES FOR ACC COMMON ON MPE/IX 7.5 (C0) PATCH Supersedes: ACCHD24A ACCGD8A
ARMMX56B	8606-214147 8606-212870	ARMSERVER ALIGNMENT TRAP
BBXMXA3C	8606-268101 D500-154029	BUSINESS BASIC/IX COMPILER A.00.24: FIX BUGS IN SELECT
COBMXJ7C	8606-315718	COBOL II/IX OPTIMIZE=1 CAN CAUSE DATA CORRUPTION (BLANKED BYTE) Supersedes: COBMXB0C
CONGDU3A	5003-164293 8606-214376	GENERAL FIXES FOR NIO CONSOLE ON MPE/IX 7.5 (A) PATCH
DCCHD72A	8606-348848 8606-319268 8606-262891 8606-164838 8606-193876 8606-293229 8606-325820	GENERAL FIXES FOR DCCONFIG ON MPE/IX 7.5 (C) PATCH Supersedes: DCCHD39A DCCGD5A
DTCGDU4A	8606-124212 8606-179267	7.5 DTC HOST DOWNLOADS, EQUIVALENT TO ODMGDB6, OV DTCMGR A1440E00
DTSHD53A	8606-308473 8606-319268 8606-335666 8606-290518 8606-222556 8606-295732 8606-303876 8606-293229 8606-286687	DTS 7.5 - FIX SA1457 FROM TIO_NDM Supersedes: DTSHD37A
EDTMXF7C	8606-284606	HP EDIT A.02.36: FIX PROBLEM WITH SPOOL FILE DISPLAY AND SAVE.
FRIMX47E	8606-215725 8606-232661	FIX FOR RPCD AND FIX FOR DBOPEN() SYMBOL IN DCEXL

Patch Index	KPR Number	Description
FTPHD71A	8606-338048	GENERAL FIXES FOR FTP FOR 7.5 RELEASE (E2 PATCH)
	8606-343050	
	8606-344454	Supersedes: FTPHD68A FTPHD48A FTPHD44A FTPHD09A
	8606-331712	FTPGDY9A FTPGDW4A FTPGDU2A
	8606-277230	
	8606-328875	
	8606-299250	
	8606-289803	
	8606-273530	
	8606-124994	
	8606-224234	
	8606-230026	
	8606-231617	
	8606-250162	
	8606-250495	
	8606-256482	
	8606-267935	
	8606-269614	
	8606-269712	
	8606-270473	
	8606-276240	
	8606-281685	
	8606-284297	
	8606-287785	
	8606-293906	
	8606-294908	
	8606-297039	
	8606-299646	
	8606-299968	
	8606-300719	
	8606-300832	
	8606-302727	
	8606-310306	
FWSLXT5D	8606-201006	PROVIDE REV. 3728 FIRMWARE FILE FOR 28696A FW SCSI DEVICE ADAPTER
INTHD64A	8606-325249	GENERAL FIXES FOR INTERSRV PRODUCTS ON MPE/IX 7.5 (C)
	8606-183008	
	8606-230083	Supersedes: INTHD61A INTGDY3A
	1653-202150	
	8606-326191	
ITOED07D	4701-401919	PROVIDE 5.5 FUNCTIONALITY IN XL.PUB.SYS FOR 6.0 & 6.5 HP3000 ITO AGENT
LNKMXE3A	8606-287479	LINKEDIT A.06.24: FIX FOR SILENT TRUNCATION OF LONG INFO STRING.
MPELXT0C	5003-345553	NEW PATCH TO INCLUDE MPEJXV9(5.5), MPEKXL0(6.0), AND
	4701-383950	MPEKXX4(6.5).
MPELXT1D	8606-194199	NETWORK SPOOLER: 2 FIXES FOR PUL SYNTAX ERRORS, NMS
	8606-180352	9621
MPEMX02D	8606-217821	SYSTEM HANG DUE TO 2-WAY DEADLOCK BETWEEN NETWORK SOCKET SEMAPHORES
MPEMX54C	8606-237023	POSSIBLE PROBLEMS WITH FILES CREATED WITH MKNOD COMMAND.

Patch Index	KPR Number	Description
MPEMX85D	8606-262297	SHADOW ERROR -38 AND -19 DURING ONLINE PARTIAL BACKUPS Supersedes: MPEMXL1A MPEMXJ6C MPEMXK1C MPEMXH6C MPEMXB6B MPEMX93C MPEMX64C
MPEMX91C	8606-245702	LABELED TAPES CAUSE AUTOLOADER TO SKIP TAPES BETWEEN JOBS
MPEMX94B	8606-244832	CIERR 981 IF SHELL EXIT CMD IS LAST RECORD IN JOB'S VARIABLE RECORD
MPEMXA5B	8606-269701 8606-221095 8606-274443	SA1458 DURING CREATEPROCESS DUE TO PROBLEMS HANDLING POSIX ENVIRON Supersedes: MPEMX86B
MPEMXB1B	8606-276005	:SHUTDOWN SYSTEM;RESTART CAN RESULT IN SA 1047 AFTER SHUT 6 ON 9X9,99X
MPEMXB3C	8606-278180	SA2216 FROM RUNNING OUT OF XM COPYFWD ARRAY ELEMENTS DURING CHECKPOINT
MPEMXC6B	8606-284194 8606-305917	SA1740 OR NEWMIRRSET FAILS; MIRVUTIL HANGS ON FILL_DISC_WAIT CONDITION
MPEMXC7B	8606-266613	SA 0 WITH AN INVALID VIRTUAL ADDRESS Supersedes: MPEMXK3C MPEMXM1A MPEMXL2B MPEMXE5C MPEMXA9C MPEMXB2C MPELXV3C MPEMX81B MPEMX99C MPEMX76C
MPEMXD6B	8606-272806	SYSTEM ABORT 1458 OR 2559 WHEN NETWORK DISCONNECT INTERRUPTS NEWCI
MPEMXD8B	8606-288647	ALLOW LISTING OVER 100 SOMS WITH VERSION.PUB.SYS Supersedes: MPEMXC2B
MPEMXD9B	8606-288751	BX00 0127 DEAD HALT INSTEAD OF SYSTEM ABORT ON 9XX SERIES SYSTEMS
MPEMXE2B	8606-288084	ARRAYLOG -E REPORTS ERROR NUMBER : 50 AND HLIO CHAIN TABLE LEAKS.
MPEMXE6C	8606-292571	IMPROVED INTERNAL ERROR MESSAGES (SYSCAT)
MPEMXF6C	8606-267267	RESTORE/COPY OF LARGE AMOUNTS OF DATA CAN CAUSE VSM TABLE EXHAUSTION
MPEMXG0C	5003-454843	SA775 WHEN LOAD_SOM ENCOUNTERS A MALFORMED NMXL FILE Supersedes: MPEMX90D
MPEMXG1C	8606-303718	DISK AVR-RELATED FAILURES AFTER INSTALLING MPEMX92 Supersedes: MPEMX92C
MPEMXH2C	8606-308481	SYSTEM ABORT 16 WHEN BOOTING FROM A NEW STAGE WHICH DOESN'T CONTAIN NL

Patch Index	KPR Number	Description
MPEMXH9C	8606-230812 8606-310669 8606-310956 8606-318248	PROBLEMS WITH SPOOLFILES CREATED WITH POSIX APPS (FSERR 105, SA514)
MPEMXJ0C	8606-314612	HPSPOOLID GIVES WRONG SPOOLFILE ID IF DUPLICATE JOB NUMBER IN SPOOLER
MPEMXJ1C	8606-300920	SADPATCH DOES NOT ACKNOWLEDGE THE CORRECT HP DIAGNOSTIC PASSWORD
MPEMXJ3B	8606-304075	SCSI MODE PAGE ENHANCEMENTS FOR FUTURE TAPE SUPPORT
MPEMXJ5A	8606-318190	SA1334 INFO = #610 FROM FIBRE CHANNEL TIMER ENTRY RECORD
MPEMXJ9A	8606-316579	CANNOT CREATE STREAMS, FIFO OR DEVICE LINK FILES ON USER VOLUME SET Supersedes: MPEMXD1A
MPEMXK0C	8606-193185	CPUS MAY FAIL TO LAUNCH DURING BOOT ON MULTIPROCESSOR SYSTEMS
MPEMXK5B	8606-321376	OPENLOG AND CLOSELOG RECORDS INCORRECT ON 7.5 AND 7.0 WITH MPEMX24
MPEMXK9A	8606-331019	HAFOERR 16 WHEN DOING AN AD WITH UNEQUAL STRING LENGTH PATH IDS Supersedes: MPEMXG9C
MPEMXL0A	8606-332175	NATIVE FIBRE CARD CHIP FREEZES - SAME AS HPUX CR 8606235253 Supersedes: MPEMXK4A MPEMXE4A
MPEMXL6B	8606-337965 8606-297155 8606-302492 8606-327251 8606-146338 8606-334232 8606-214092	OS DAT/DEBUG MACRO FIXES AND ENHANCEMENTS
MPEMXL8A	8606-339373	SA732 OR SYSTEM HANG ON UNIPROCESSOR A/N USING NATIVE FIBRE CHANNEL
MPEMXL9C	8606-335372	ENHANCEMENT TO REDUCE PER PROCESS VSM OBJECT/TABLE USAGE BY AIF:PE
MPEMXM0A	8606-325444	SA1050 WHEN ABORTING AN I/O REQUEST QUEUED TO SE OR F/W SCSI DAM
MPEMXM7A	8606-338470	DAT FAILS TO OPEN DTOD DUMP WHEN LIMIT IS A MULTIPLE OF 4096MB
MPEMXM8A	8606-344983	HFS DIRECTORY CAN BE CORRUPTED AFTER SF OR INCOMPLETE SHUTDOWN

Patch Index	KPR Number	Description
MPEMXM9A	8606-347543	HAFO ERROR 1012 AND LDEV 1 IN FAILED FAILOVER STATE AFTER SLT UPDATE Supersedes: MPEMXM2C MPEMXL5B MPEMXX7B MPEMXH5C MPEMXH0B MPEMXG4B MPEMXE1A MPEMXF8B MPEMXE7A MPEMXE8B MPEMXA1C MPEMXD5B MPEMXA8B MPEMXD2A MPEMXC8A MPEMXA7B MPEMX61B
MPEMXN6B	8606-355072	SYSTEM HANG CAN OCCUR WHEN PERFORMING I/O FOR LARGE FILES (>4GB) Supersedes: MPEMXQ1C
MPEMXP0A	8606-356250	KSAM64 FILES CAN FILL UP DESPITE THE USE OF REUSE OPTION
NMCHD36A	8606-319268 8606-264154 8606-255163 8606-252900 8606-268698 8606-234603	GENERAL FIXES FOR NMMGR ON MPE/IX 7.5 (D) PATCH Supersedes: NMCHD17A NMC GDY2A NMC GDU6A
NMSHD79A	8606-351808 8606-339405 8606-319268 8606-195035 8606-207282 8606-274274	GENERAL FIXES FOR NMS/IX ON 7.5 (E PATCH) Supersedes: NMSHD70A NMSHD35A NMSGDV1A NMSGDU5A
NRCMXN4C	8606-352235	SUPPORT TOOLS UPDATE (ODUMP, CHKDTOD, DUMPCOPY) Supersedes: NRCMXH1C NRCMXB8C
NSRGDU7A	8606-147395	GENERAL FIXES FOR DOMAIN NAME SERVICE ROUTINES ON 7.5 (A0 PATCH)
NSTHD06A	1653-296426 8606-106004 8606-174426 8606-174449 8606-200275 8606-217960 8606-232667 8606-241875 8606-249651 8606-254218 8606-257335 8606-267660 8606-269347 8606-272847 8606-285610 8606-286850 8606-297205	GENERAL FIXES FOR NS TRANSPORT ON MPE/IX 7.5 (A2) PATCH Supersedes: NSTHD02A NSTGDW6A
ODBMXH7C	8606-318396	ODECLINK/SE VERSION G.02.00 FOR 6.5 7.0 AND 7.5 Supersedes: ODBMXG6C ODBMXE0C ODBMXD4C ODBMXB9A

Patch Index	KPR Number	Description
ODIMXN2C	8606-349534 8606-344345	STM ONLINE DIAGNOSTICS B8343AA.75.05 GENERAL UPDATE RELEASE Supersedes: ODIMXL3C ODIMXE9C ODIMX96C
ODMHD45A	8606-319268 8606-179267 8606-124212 5000-716183 5003-365064 1653-228684 1653-231787 5003-360669	OVDTCMGR PC BASED 14.4 PATCH E00 WITH HOST-BASED MIGRATION TOOL
OSPMXH3C	8606-308761 8606-307570 8606-301078 8606-316246	MAM3184MC AND MAM3367MC DISKS, SYSSTART INSTALL MODS, Supersedes: OSPMXF4C
PARMX97C	8606-225011	PASCAL/IX LIBRARY A.05.05.04: FIX TRAP ON OPENING PIPE
PBTHD88A	8606-344129 8606-337334	GENERAL FIXES FOR PCI 100BASE-T ON MPE/IX 7.5 (A0) PATCH
PTDGD9A	8606-250491 4701-422436 8606-264334 8606-259714 8606-175456 8606-250349 8606-219917 8606-219640	GENERAL FIXES FOR TELNET ARPA SERVICES ON 7.5 (B PATCH) Supersedes: PTDGDT9A
RPGMXJ8C	8606-320424	RPG/IX A.00.21 CUMULATIVE PATCH
SCOMXN1C	8606-356541 8606-335213 8606-307580 8606-288807 8606-278192 8606-248924 8606-172760	MI CNTR OVERFLOWS CAUSING NEGATIVE NUMBERS IN EXTRACTED/EXPORTED DATA Supersedes: SCOMXK8C SCOMXH4C SCOMXD7C
SMEMXG3C	8606-304287	SAMBA 2.2.8A FOR MPE 6.5, 7.0, AND 7.5 TO SUPPORT ENCRYPTED PASSWORDS
SMLHD16A	8606-304094 8606-301101	SENDMAIL A.01.02 FOR MPE/IX 7.5 (B) PATCH Supersedes: SMLHD04A
SNMGDT6A	8606-272894 8606-248966	GENERAL FIXES FOR SNMP ON MPE/IX 7.5 (A PATCH)
STRGD6A	8606-245179 8606-245307 8606-252710 8606-212542 8606-134134	GENERAL FIXES FOR STREAMS/IX ON MPE 7.5 RELEASE (B PATCH) Supersedes: STRGDU8A

Patch Index	KPR Number	Description
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TIXMXD0A 8606-284008 GB FILE LEFT OPEN EVEN NO ACCESSOR TO THE DATABASE.

Supersedes: TIXMXA4A

TSMHD38A 8606-319268 TERMDSM PATCH FOR MPE/IX C.75.00 (B PATCH)
8606-286262

Supersedes: TSMGDV2A

VPLLX49E 8606-131968 VPLUS WITH ARB ENABLED RETURNS YEAR '00' AS 'A0' AND
'10' AS 'B0', ETC

XPMX65C 8606-249488 FIX TO HP SURESTORE E RAID MANAGER XP (RM) UTILITIES
FOR ERR 242

