

May 12, 2011

FDRPAS ANNOUNCEMENTS

What is in this Technical Bulletin?

1. Fix P-54.7526
2. Fix P-54.7538
3. Temporary warnings concerning SWAP of Coupling Facility volumes and JES volumes.
4. Update to the Recommended Maintenance list IBM APAR OA35902, APAR OA34008, and APAR OA36129.

IMPORTANT NOTICE FOR FDRPAS CUSTOMERS – FIXES P-54.7526 AND P-54.7438

Innovation has encountered two rare but potentially serious problems.

Problem P-54.7526 may cause user jobs to fail if they are updating a VSAM data set on a volume that is being SWAPPED by FDRPAS. The symptom is an I/O error with Command Reject. The failing command is A6 (Read Track Data).

Problem P-54.7538 may cause user data to be lost during a SWAP or may cause a SWAP to fail, if the source volume is a 3390-27 or larger and has a very small VTOC (1 track on a 3390-27, 2 tracks on a 3390-54, or 7 tracks on an EAV).

All FDRPAS users should install ZAPs P-54.7526 and P-54.7538 to fix these problems. To obtain these ZAPs, go to the FTP Login page at <http://www.innovationdp.fdr.com/ftp/ftp.cfm> and enter your access code. (If you do not have an access code, you can Register for FTP Site Access by sending an E-mail to ftpdp@fdrinnovation.com). Within the FTP site, go to the Download directory, then FDRPAS, then Maintenance, and finally P547526.txt and P547538.txt.

These ZAPs are included in V 5.4/75 SPIN=3, which is the level that has been distributed since April 26, 2011. To order V 5.4/75 SPIN=3, click here: <http://www.innovationdp.fdr.com/upgrade/exform.cfm>

Note: ZAPs P-54.7526 and P-54.7538 are for FDRPAS version 5.4/75. If you are running an earlier version, we urge you to upgrade to the current version, V 5.4/75, as described above.

TEMPORARY WARNINGS CONCERNING SWAP OF COUPLING FACILITY VOLUMES AND JES VOLUMES

One of the enhancements in FDRPAS V 5.4/75 was the ability to SWAP JES spool and checkpoint volumes without special user considerations. FDRPAS now identifies these volumes and performs appropriate serialization.

We have encountered some limitations in this support. These limitations will be removed in the next release, but for V 5.4/75, they require user action.

- We have found that when the volume containing the active sysplex coupling data set is being SWAPPED in the same job as other volumes, it is necessary to serialize this volume in the same way as a JES volume. In the next release, FDRPAS will recognize coupling facility volumes automatically. However, for V 5.4/75, if you SWAP the volume containing the active sysplex coupling data set in the same job as other volumes, you must identify it by specifying JESVOL=YES on the MOUNT command for that volume in the SWAP job.

- When the target volume for a SWAP is larger (has more data cylinders) than the source volume, and the user specifies LARGERSIZE=OK to allow the SWAP, FDRPAS invokes ICKDSF after the SWAP to rebuild the VTOC index to reflect the larger size. We have found that there is an exposure to lockouts, involving the temporary data set for the ICKDSF control cards (ddname IXSYSIN), when a JES volume is being SWAPped in the same job. In the next release, FDRPAS will deal with this exposure by allocating IXSYSIN to VIO, if possible, instead of to real disk. For V 5.4/75, please add a DD statement for IXSYSIN to the JCL for SWAP jobs. Allocate IXSYSIN to a 1-track data set on disk, preferably VIO. Example:

```
//IXSYSIN DD UNIT=VIO,SPACE=(TRK,1)
```

If VIO is not a valid unit name at your installation, then use another name that is eligible to be treated as VIO, or use any unit name for disk, such as SYSALLDA.

Although this DD statement is only needed when SWAPping to a larger size in a job that includes JES volumes, it will never hurt, and it will be easier to include it in all SWAP jobs than to try to remember to include it when it is needed.

If you have any questions, contact support at support@fdrinnovation.com or your local Innovation office.

Recommended maintenance to be applied before running FDRPAS

Last updated: May 12, 2011

CHANGES SINCE UPDATE OF December 21st, 2010

Critical APAR [OA35902](#) for errors in DASD error recovery and corrupted DB2 data bases has been added.
Recommended APAR [OA34008](#) for PPRC devices in an alternate subchannel set added.
Recommended APAR [OA36129](#) for data sets cataloged with an extended indirect volume serial number has been added (FDRMOVE users only).

CHANGES SINCE UPDATE OF August 23rd, 2010

Added required microcode level for Hitachi VSP or Raid700 or HP P9500.
Added warning that zHPF requires V 5.4/74.
Added column to APAR matrix for z/OS 1.12.
Added APAR [OA31956](#), which replaces APAR OA28844. PTFs are now available for these APARs for z/OS 1.9 through 1.11.

CHANGES SINCE UPDATE OF September 15th, 2009

Added information regarding Software AG product ADABAS and FDRPAS.

CHANGES SINCE UPDATE OF December 11th, 2007

Recommended APAR [OA26237](#) for HyperPAV has been added.
Critical APAR [OA27065](#) for CONFIG CHP command has been added.
Recommended APAR [OA28844](#) for ACTIVATE after FDRMOVE added.
Critical APAR [OA29579](#) for FlashCopy support with non-IBM hardware added.
Outdated APARs and notes removed. This list now applies to FDRPAS V5.4 level 70 or higher running under z/OS 1.8 or higher.
Added columns to APAR matrix for z/OS 1.10 and z/OS 1.11.

SUPPORTED FDRPAS RELEASES:

Version 5.4 level 70 of FDRPAS and higher are supported. You should not run earlier releases of FDRPAS.
The current release, as of May 12, 2011, is V5.4 level 75.

Please check the link below for versions released after this announcement:

<http://www.innovationdp.fdr.com/osreq.cfm>

IMPORTANT WARNING ON zHPF

zHPF (High Performance FICON for System z) is supported on System z10 and zEnterprise 196 and later processors, when running z/OS 1.7 through 1.10 with PTFs, or z/OS 1.11 or above. All FDRPAS users who have installed or will install zHPF should install FDRPAS Version 5.4 L74 or above.

**SUMMARY DESCRIPTION - CACHE FAST WRITE (CFW) IO ERROR PROBLEM IN
ADABAS V813 AND EARLIER**

There is no exposure to CFW IO errors in ADABAS V814 and later versions of ADABAS. An exposure exists in ADABAS V813 and earlier to report Cache Fast Write (CFW) IO errors after an FDRPAS swap. Contact INNOVATION technical support referencing ISYS incident number R3021 or Software AG technical support referencing SAGSIS incident number 308599, for details on available maintenance or problem circumvention.

IMPORTANT WARNING ON MIDAW SUPPORT ON SYSTEM z

The IBM System z processors support MIDAWs (Modified Indirect Data Address Words) in I/O channel programs. MIDAWs are used only on System z and only if you have installed z/OS 1.6 with enabling PTFs or z/OS 1.7 or above. Because MIDAWs may not be supported on some non-IBM disk equipment, IBM does not support swap between a disk that supports MIDAWs and one that does not.

FDRPAS includes a check to be sure that the MIDAW capabilities of the source and target disks match; if not, the swap will not be attempted. The FDRPAS manual describes how to handle this situation in section 320.01.

IMPORTANT WARNING ON ECS CATALOG SHARING

ECS (Enhanced Catalog Sharing) is a catalog sharing protocol for parallel sysplexes that uses the Coupling Facility (CF) to communicate catalog changes to all systems. You can determine which of your open catalogs are using ECS with the console command:

```
F CATALOG,ECSHR(STATUS)
```

If any catalog displayed has a status of "active", ECS is in use. This display also shows if the ECS AUTOADD option is enabled; AUTOADD is required to make the commands below function correctly. If not enabled, issue:

```
F CATALOG,ECSHR(AUTOADD)
```

The ECS CF structure is sensitive to the device address of each ECS shared catalog, so the Catalog Address Space (CAS) is supposed to automatically disable ECS sharing for all catalogs on a volume that is swapped with FDRPAS. However, there is a series of IBM APARs related to problems with this process (see the APAR list below).

If you cannot apply the appropriate PTFs, you MUST disable ECS for all catalogs on volumes being swapped, before the swap, using the console command:

```
F CATALOG,ECSHR(REMOVE,catname)
```

After the swap, you can re-enable ECS for those catalogs with:

```
F CATALOG,ECSHR(ENABLE,catname)
```

These commands need to be issued only on one system; they will automatically be propagated to all other sharing systems. Even if CAS automatically removes a swapped catalog, you will need to use the ENABLE command to re-enable ECS for those catalogs after the swap.

Alternatively, you can disable ECS globally for all catalogs, before the swaps, using the console command:

```
F CATALOG,ECSHR(DISCONNECT)
```

and re-enable ECS after the swaps with:

```
F CATALOG,ECSHR(CONNECT)
```

The DISCONNECT and CONNECT commands need to be issued only on one system.

REQUIRED MICROCODE LEVEL FOR HITACHI VSP, HP P9500, AND HITACHI RAID700

Customers swapping to an HDS (Hitachi Data Systems) VSP or Raid700 storage system, or HP (Hewlett-Packard) P9500 Disk Array, must ensure that the microcode level is 70-01-28-00/00 (released 12/09/2010) or higher. At lower levels, FDRPAS may not be able to identify the systems connected to the control unit. FDRPAS may give message FDR234 REASON=M indicating that a system has failed to respond, with a serial number for a system that does not exist, and then fail the swap. If you try to put in EXCLUDE commands for the nonexistent CPUIDs, FDRPAS may give message FDR262 MODULE FDRXCPU NOT FOUND OR IN ERROR, and a U0502 ABEND.

CRITICAL AND RECOMMENDED IBM SOFTWARE MAINTENANCE FOR ALL SYSTEMS

You may need to apply IBM maintenance in order to successfully swap disks with FDRPAS. Please check this matrix against your operating system level to see which IBM APARs may need to be applied to all of your systems before you attempt to use FDRPAS.

At the end of this document is information on using IBM's EPSPT tool to automate checking your system for these APARs. Innovation strongly recommends that you use EPSPT rather than manually checking all the APARs.

Brief descriptions of the APARs follow the matrix. Please review the descriptions of the applicable APARs to see if they must be applied to your system. IBM can provide detailed APAR descriptions and assist you in determining if a given APAR must be applied. Please note that failure to apply some of these APARs may result in system failures, application failures, or data corruption.

APARs that apply to OS/390 2.4-2.9 can be found in the May 2003 FDRPAS newsletter at:

http://www.innovationdp.fdr.com/newsviaemail/nve_fdrpas_050103.cfm

APARs that apply to OS/390 2.10 and z/OS 1.1-1.3 can be found in the October 2005 FDRPAS newsletter at:

http://www.innovationdp.fdr.com/newsviaemail/fdrpas/ann_100705.cfm

APARs that apply to z/OS 1.4-1.7 can be found in the December 2007 FDRPAS newsletter at:

http://www.innovationdp.fdr.com/newsviaemail/nve_12112007.cfm

IBM APAR	-----z/OS-----				
	1.8	1.9	1.10	1.11	1.12
OA36129					R
OA35902*			C	C	C
OA34008*			R	R	R
OA31956*	R	R	R	R	
OA29579	C	C	C	C	
OA28844*	R	R	R	R	
OA27065*			R	R	
OA26237	C	C	C		
OA23211	C	C			
OA20597*	R	R			
OA19965*	C	C			
OA16358*	C				

C = Critical - will apply to most installations and may result in system outages or data loss if not applied. All FDRPAS users should apply.

R = Recommended - does not result in outage or data loss OR applies only to a limited number of installations with special circumstances. All FDRPAS users should review the descriptions and apply if they are critical for your environment.

* = an IPL is required to implement this fix.

Brief IBM APAR descriptions follow:

OA36129: this recommended APAR should be applied if you have catalog entries with extended indirect volume serial numbers (&symbol instead of a specific volume). It fixes a problem in which MVS does not inform FDRMOVE of this special type of catalog entry, causing FDRMOVE to lose the symbolic serial and replace it with an ordinary specific serial. **THIS APAR AFFECTS ONLY FDRMOVE AND NOT FDRPAS.**

OA35902: this critical APAR should be applied by all customers. The problem is not likely to occur unless you are running hundreds of concurrent SWAPs or SWAPDUMPS, but it is **highly time-dependent and could happen on any heavily loaded system, with or without FDRPAS.** The original error is an S0C1 or S0C4 ABEND in CSECT IECVDERP, which results in an SVC DUMP or LOGREC record from CSECT IOSVIRBA. A channel program is not completed, and the data base or other file is not correctly updated. We have specifically seen this problem cause I/O errors in DB2 with reason code X'00C200C0' and ABEND S04E; the data base was corrupted.

OA34008: this recommended APAR should be applied if you use PPRC secondary devices in an alternate subchannel set (these devices are called special secondary devices or 3390D devices), and you make the secondary device(s) active by HyperSwap, or by an IPL with SCHSET 1 specified in PARMLIB member LOADxx, and you then use FDRPAS to SWAP the active device in the alternate subchannel set to another device. This APAR fixes a problem in which IOS will mismanage its device look-up table under these conditions, causing commands such as D U and system services such as UCBLLOOK to give incorrect results.

OA31956/OA28844: this recommended APAR should be applied if you have installed APAR OA25684, which changes catalog management to PIN the UCB permanently when it access a VVDS. APAR [OA31956/OA28844](#) improves this to UNPIN the UCB if the device is VARYed OFFLINE. **THIS IS IMPORTANT ONLY IF YOU USE FDRMOVE TO MOVE ALL THE DATASETS OFF A VOLUME, VARY IT OFFLINE, AND THEN TRY TO DO A DYNAMIC ACTIVATE TO REMOVE THE DEVICE FROM THE SYSTEM; ACTIVATE fails if the UCB for a device being deleted is PINned.** Also, this problem does not affect customers who are licensed only for FDRPAS and not for FDRMOVE. The circumvention is to issue F CATALOG,VCLOSE(volser) before a VARY OFFLINE, or else F CATALOG,RESTART or IPL. The PTFs for APAR [OA31956](#) are the same code as those for APAR [OA28844](#), with the ++HOLD data corrected to indicate that installing them requires an IPL.

OA29579: this critical APAR should be applied if you are using FlashCopy on non-IBM devices. It fixes a problem in which FDRPAS may be unable to disable FlashCopy during a swap, which can lead to corrupted data on the target volume.

OA28844: see [OA31956](#) above.

OA27065: this recommended APAR should be applied if you are using the CONFIG CHP command during the SWAP process. Switching, plugging, and unplugging cables and configuring CHPIDs while FDRPAS is swapping a volume is not recommended because in rare circumstances, it may cause a volume to swap successfully in some systems, but to fail in other systems. However, this APAR will make the failures less likely.

OA26237: this critical APAR should be applied if you are using HyperPAV aliases. This APAR fixes a problem of AOMSSDS not obtaining the UCB lock when performing an unbind, which can cause unpredictable results with symptoms such as SCOD ABENDS, spin loops, S071 ABENDS, S073 ABENDS, and I/O errors with IOSCOD X'51' and IOSXRCOD X'00'.

OA23211: this critical APAR should be applied if you have installed APAR OA22525, which can cause incorrect addressability to the UCBLOCK word resulting in storage overlays and/or S073 ABENDS.

OA20597: this recommended APAR fixes an S0C4 in IOSVUSER if a UCBINFO function call is issued just when FDRPAS is doing internal VARY ONLINE commands.

OA19965/OA16358: these critical APARs should be applied if you are swapping volumes containing catalogs with ECS (Enhanced Catalog Sharing via a coupling facility). APAR [OA16358](#) fixes a hang in CAS, and APAR [OA19965](#) fixes an error in [OA16358](#) that can cause corrupted catalogs. If you cannot apply the fixes, see the notes above on disabling ECS during the swap.

OA16358: see [OA19965](#) above.

IBM EPSPT TOOL

EPSPT (Enhanced Preventive System Planning Tool) is an IBM program that automates checking your SMP/E CSI for required APARs and PTFs. You can download the EPSPT program at:

http://techsupport.services.ibm.com/390/psp_main.html

Once installed, you can run this job to check for missing APARs on the FDRPAS critical and recommended list. This includes APARs from OS/390 2.10 through z/OS 1.12. The EPSPT tool automatically will check whether the PTFs that apply to your MVS level (FMID) are installed.

This jobstream is also available on the Innovation FTP site. Go to <http://www.innovationdp.fdr.com/ftp/ftp.cfm> and enter your FDRPAS access code. The jobstream is in the "maintenance" directory with file name: FDRPAS-EPSPT-JOB.txt

This EPSPT job contains a cumulative list of all IBM APARs, not just those for the currently supported MVS levels.

```
//*****  
//* SMP/E: RUN PSP COMPARE AND REPORT TOOL  
//*****  
//PASAPARS EXEC PGM=EPSPT,  
// PARM='MVST' <== specify SMP/E target zone name  
//SMPCSI DD DISP=SHR,  
// DSN=SMPE.GZOSR1B.CSI <== SPECIFY SMP/E CSI NAME  
//OUTPUT DD SYSOUT=*  
//OUTPUTL DD SYSOUT=*  
//SYSIN DD DATA,DLM=$$  
/* PREVENTIVE SERVICE PLANNING */  
/* CHECK FOR RECOMMENDED AND CRITICAL IBM APARS FOR FDRPAS */  
/* */  
/* BCP AND DFSMS APARS FOR Z/OS 1.8 AND ABOVE */  
/* */  
APAR(AA36129) FMID(HDZ1C10) FIX(UA60230) UPG(FDRPAS) SUB(RECOMMENDED).  
APAR(AA35902) FMID(HDZ1A10) FIX(UA59485) UPG(FDRPAS) SUB(CRITICAL).  
APAR(AA35902) FMID(HDZ1B10) FIX(UA59486) UPG(FDRPAS) SUB(CRITICAL).  
APAR(AA35902) FMID(HDZ1C10) FIX(UA59487) UPG(FDRPAS) SUB(CRITICAL).  
APAR(AA34008) FMID(HBB7750) FIX(UA56907) UPG(FDRPAS) SUB(RECOMMENDED).  
APAR(AA34008) FMID(HBB7760) FIX(UA56908) UPG(FDRPAS) SUB(RECOMMENDED).  
APAR(AA34008) FMID(HBB7770) FIX(UA56909) UPG(FDRPAS) SUB(RECOMMENDED).  
APAR(AA31956) FMID(HDZ1190) FIX(UA52638) UPG(FDRPAS) SUB(RECOMMENDED).  
APAR(AA31956) FMID(HDZ1A10) FIX(UA52636) UPG(FDRPAS) SUB(RECOMMENDED).  
APAR(AA31956) FMID(HDZ1B10) FIX(UA52637) UPG(FDRPAS) SUB(RECOMMENDED).  
APAR(AA29579) FMID(HDZ1180) FIX(UA48404) UPG(FDRPAS) SUB(CRITICAL).  
APAR(AA29579) FMID(HDZ1190) FIX(UA48405) UPG(FDRPAS) SUB(CRITICAL).  
APAR(AA29579) FMID(HDZ1A10) FIX(UA48402) UPG(FDRPAS) SUB(CRITICAL).  
APAR(AA29579) FMID(HDZ1B10) FIX(UA48403) UPG(FDRPAS) SUB(CRITICAL).  
/* APAR(AA28844) has no PTF for z/OS 1.8 */  
/* - see circumventions above */  
APAR(AA28844) FMID(HDZ1190) FIX(UA50363) UPG(FDRPAS) SUB(RECOMMENDED).  
APAR(AA28844) FMID(HDZ1A10) FIX(UA50361) UPG(FDRPAS) SUB(RECOMMENDED).  
APAR(AA28844) FMID(HDZ1B10) FIX(UA50362) UPG(FDRPAS) SUB(RECOMMENDED).  
/* */  
APAR(AA27065) FMID(HBB7750) FIX(UA47255) UPG(FDRPAS) SUB(RECOMMENDED).  
APAR(AA27065) FMID(HBB7760) FIX(UA47256) UPG(FDRPAS) SUB(RECOMMENDED).
```

APAR(AA26237) FMID(HDZ1180) FIX([UA45327](#)) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA26237) FMID(HDZ1190) FIX([UA45328](#)) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA26237) FMID(HDZ1A10) FIX([UA45326](#)) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA23211) FMID(HDZ1180) FIX([UA38320](#)) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA23211) FMID(HDZ1190) FIX([UA38321](#)) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA20597) FMID(HBB7730) FIX([UA34278](#)) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA20597) FMID(HBB7740) FIX([UA34279](#)) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA19965) FMID(HDZ1180) FIX([UA37522](#)) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA19965) FMID(HDZ1190) FIX([UA37523](#)) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA16358) FMID(HDZ1180) FIX([UA28376](#)) UPG(FDRPAS) SUB(CRITICAL).
/* */
/* ICKDSF APARS RELATED TO OS/390 2.10 THRU Z/OS 1.7 */
/* */
APAR(AQ92344) FMID(EDU1H01) FIX([UQ91568](#)) UPG(FDRPAS) SUB(RECOMMENDED).
/* */
/* APARS FOR TIVOLI OMEGAMON II FOR SMS V520 THRU V550 */
/* (ALSO OMEGAMON XE FOR STORAGE V100 THRU V310) */
/* */
APAR(AA16333) FMID(AKDF520) FIX([UA26018](#)) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA16333) FMID(AKDF540) FIX([UA26019](#)) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA16333) FMID(HKDF550) FIX([UA26017](#)) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA13206) FMID(AKDF520) FIX([UA20888](#)) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA11384) FMID(AKDF540) FIX([UA17690](#)) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA09836) FMID(AKDF540) FIX([UA15315](#)) UPG(FDRPAS) SUB(RECOMMENDED).
/* */
/* BCP AND DFSMS APARS FOR OS/390 2.10 THRU Z/OS 1.7 */
/* */
APAR(AA23211) FMID(HDZ11J0) FIX([UA38323](#)) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA23211) FMID(HDZ11K0) FIX([UA38319](#)) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA20597) FMID(HBB7709) FIX([UA34276](#)) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA20597) FMID(HBB7720) FIX([UA34277](#)) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA19965) FMID(HDZ11J0) FIX([UA37520](#)) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA19965) FMID(HDZ11K0) FIX([UA37521](#)) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA16358) FMID(HDZ11K0) FIX([UA28375](#)) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA14861) FMID(HBB7707) FIX([UA24300](#)) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA14861) FMID(HBB7708) FIX([UA24301](#)) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA14861) FMID(HBB7709) FIX([UA24302](#)) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA14861) FMID(JBB7717) FIX([UA24304](#)) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA14861) FMID(HBB7720) FIX([UA24303](#)) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA14558) FMID(HDZ11G0) FIX(UA24364) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA14558) FMID(HDZ11H0) FIX(UA24365) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA14558) FMID(HDZ11J0) FIX(UA24366) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA14558) FMID(HDZ11K0) FIX(UA24367) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA14248) FMID(HBB7707) FIX(UA24291) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA14248) FMID(HBB7708) FIX(UA24292) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA14248) FMID(HBB7709) FIX(UA24293) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA14248) FMID(JBB7717) FIX(UA24295) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA14248) FMID(HBB7720) FIX(UA24294) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA13807) FMID(HDZ11H0) FIX(UA22327) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA13807) FMID(HDZ11J0) FIX(UA22328) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA13458) FMID(HDZ11H0) FIX(UA22310) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA13458) FMID(HDZ11J0) FIX(UA22311) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA13458) FMID(HDZ11K0) FIX(UA22312) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA10139) FMID(HDZ11G0) FIX(UA15990) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA10139) FMID(HDZ11H0) FIX(UA15991) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA10139) FMID(HDZ11J0) FIX(UA15992) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA09675) FMID(HBB7720) FIX(UA24486) UPG(FDRPAS) SUB(CRITICAL).

APAR(AA09675) FMID(HBB7707) FIX(UA24483) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA09675) FMID(HBB7708) FIX(UA24484) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA09675) FMID(HBB7709) FIX(UA24485) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA09675) FMID(JBB7717) FIX(UA24487) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA07355) FMID(HDZ11G0) FIX(UA11009) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA07355) FMID(HDZ11H0) FIX(UA11010) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA07355) FMID(HDZ11J0) FIX(UA11011) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA07006) FMID(HBB7705) FIX(UA12519) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA07006) FMID(HBB7706) FIX(UA12520) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA07006) FMID(HBB7707) FIX(UA12521) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA07006) FMID(HBB7708) FIX(UA12522) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA07006) FMID(HBB7709) FIX(UA12523) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA07006) FMID(JBB7717) FIX(UA12524) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA06935) FMID(HJS7705) FIX(UA11274) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA06935) FMID(HJS7707) FIX(UA11275) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA06935) FMID(HJS7708) FIX(UA11276) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA05722) FMID(HDZ11F0) FIX(UA07576) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA05722) FMID(HDZ11G0) FIX(UA07577) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA05722) FMID(HDZ11H0) FIX(UA07578) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA05403) FMID(HBB7703) FIX(UA12186) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA05403) FMID(HBB7705) FIX(UA12187) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA05403) FMID(HBB7706) FIX(UA12188) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA05403) FMID(HBB7707) FIX(UA12189) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA05403) FMID(HBB7708) FIX(UA12190) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA05403) FMID(HBB7709) FIX(UA12191) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA05403) FMID(JBB7713) FIX(UA12192) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA05403) FMID(JBB7717) FIX(UA12193) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW57711) FMID(HDZ11E0) FIX(UA02104) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW57711) FMID(HDZ11F0) FIX(UA02105) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW57711) FMID(HDZ11G0) FIX(UA02106) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW57552) FMID(HDZ11E0) FIX(UA00818) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW57552) FMID(HDZ11F0) FIX(UA00819) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW57552) FMID(HDZ11G0) FIX(UA00820) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW56156) FMID(HBB7703) FIX(UA00263) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW56156) FMID(HBB7705) FIX(UA00264) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW56156) FMID(HBB7706) FIX(UA00265) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW56156) FMID(HBB7707) FIX(UA00266) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW55469) FMID(HDZ11E0) FIX(UW93754) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW55469) FMID(HDZ11F0) FIX(UW93755) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW55469) FMID(HDZ11G0) FIX(UW93756) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW54976) FMID(HBB6608) FIX(UW94401) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW54976) FMID(HBB7703) FIX(UW94402) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW54976) FMID(HBB7705) FIX(UW94403) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW54976) FMID(HBB7706) FIX(UW94404) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW54976) FMID(HBB7707) FIX(UW94405) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW54976) FMID(JBB7713) FIX(UW94406) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW54200) FMID(HDZ11G0) FIX(UW88036) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW53761) FMID(HDZ11E0) FIX(UW92136) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW53761) FMID(HDZ11F0) FIX(UW92137) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW53761) FMID(HDZ11G0) FIX(UW92138) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW53222) FMID(HDZ11F0) FIX(UW87452) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW53222) FMID(HDZ11G0) FIX(UW87453) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW52631) FMID(HBB6608) FIX(UW83918) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW52631) FMID(HBB7703) FIX(UW83919) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW52631) FMID(HBB7705) FIX(UW83920) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW52631) FMID(HBB7706) FIX(UW83921) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW52631) FMID(JBB7713) FIX(UW83922) UPG(FDRPAS) SUB(CRITICAL).

APAR(AW52614) FMID(HDZ11E0) FIX(UW85966) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW52614) FMID(HDZ11F0) FIX(UW85967) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW52614) FMID(HDZ11G0) FIX(UW85968) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW52422) FMID(HDZ11E0) FIX(UW85956) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW52422) FMID(HDZ11F0) FIX(UW85957) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW52422) FMID(HDZ11G0) FIX(UW85958) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW52127) FMID(HBB7703) FIX(UA04094) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW52127) FMID(HBB7705) FIX(UA04091) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW52127) FMID(HBB7706) FIX(UA04092) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW52127) FMID(HBB7707) FIX(UA04093) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW51840) FMID(HDZ11E0) FIX(UW85077) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW51840) FMID(HDZ11F0) FIX(UW85078) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW51840) FMID(HDZ11G0) FIX(UW85079) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW51461) FMID(HDZ11E0) FIX(UW83782) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW51461) FMID(HDZ11F0) FIX(UW83783) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW49783) FMID(HBB7703) FIX(UW82457) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW49783) FMID(HBB7705) FIX(UW82458) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW49672) FMID(HDZ11F0) FIX(UW80062) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW46936) FMID(HDZ11E0) FIX(UW75954) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW46936) FMID(HDZ11F0) FIX(UW75955) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW46459) FMID(HBB6608) FIX(UW77968) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW46459) FMID(HBB7703) FIX(UW77969) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW46459) FMID(JBB7713) FIX(UW77971) UPG(FDRPAS) SUB(CRITICAL).
APAR(AW46101) FMID(HBB6608) FIX(UW79015) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW46101) FMID(JBB6609) FIX(UW79021) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW46101) FMID(HBB7703) FIX(UW79016) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW45683) FMID(HBB6608) FIX(UW77247) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW45683) FMID(HBB7703) FIX(UW77248) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW44548) FMID(HDZ11E0) FIX(UW71066) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AW44548) FMID(HDZ11F0) FIX(UW71067) UPG(FDRPAS) SUB(RECOMMENDED).
/* END OF FDRPAS APAR LIST */
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