# FDRPAS ANNOUNCEMENTS

**Recommended maintenance to be applied before running FDRPAS**
                        Last updated: May 31, 2013

**CHANGES SINCE UPDATE OF May 9th, 2013**
Critical APAR OA42277.  See Innovation Technical Bulletin dated May 31, 2013 for details.


**SUPPORTED FDRPAS RELEASES:**

Version 5.4 level 73 of FDRPAS and higher are supported.  You should not run earlier releases of FDRPAS.
The current release, as of May 9, 2013, is V5.4 level 78.

Please check the link below for versions released after this announcement:
        http://www.innovationdp.fdr.com/osreq.cfm


**IMPORTANT WARNING ON zHPF**

All FDRPAS users who have installed or will install zHPF (High Performance FICON for System z) should install FDRPAS Version 5.4 L74 or above.


**RECOMMENDED MAINTENANCE FOR ADABAS FROM SOFTWARE AG**

The recommended fixes below should be installed if you are running ADABAS V822 through V825.  They fix the problem described by SAG incident number 1051648, in which ADABAS built a channel program containing a Prefix command, but did not set the flag telling IOS not to add its own Prefix.  The symptoms in FDRPAS are SWAP failures with messages FDR234** SWAP ERROR REASON=C and REASON=E.

  AO822055 for ADA822
  AO823030 for ADA823
  AO824016 for ADA824
  AO825015 for ADA825

## 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 320.1.


## 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

APARs that apply to z/OS 1.8-1.10 can be found in the May 2011 FDRPAS newsletter at:
   http://www.fdr.com/newsviaemail/pdf/FDRPAS_Announcement_05-12-2011.pdf

| IBM APAR | 1.11 | 1.12 | 1.13 |
|---|---|---|---|
| OA42277* |   | C | C |
| OA41309* | R | R | R |
| OA41057 |   |   | R |
| OA40119 |   |   | C |
| OA39822* | C | C | C |
| OA39804 | R | R | R |
| OA36129 |   | R |   |
| OA35902* | C | C |   |
| OA34008* | R | R |   |
| OA31956* | R |   |   |
| OA29579 | C |   |   |
| OA28844* | R |   |   |
| OA27065* | R |   |   |

**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:

**OA42277:** See Innovation Technical Bulletin dated May 31, 2013.

**OA41309:** this recommended APAR marks the PTFs for APAR OA40697 as PE. These PTFs, UA67080, UA67081, and UA67082, create an incompatibility with FDRPAS. The PTFs for APAR OA41309 are the same code, but with a ++HOLD ACTION statement to indicate that before you apply the PTF, you must apply FDRPAS fix P-54.7818 for FDRPAS V5.4/78, or upgrade to FDRPAS V5.4/78 spin=2 (available since March 13, 2013). Otherwise, the consequence may be I/O loops in CA-7 or other applications with BSAM log files, making it necessary to cancel the application.

> Customers who are running lower levels of FDRPAS and do not upgrade, can circumvent the problem by issuing this console command on all SWAP and MONITOR systems before starting a SWAP:
>     DEVSERV QDASD,NORETRY=ALL   or   DS QD,NORETRY=ALL
>
> This will only suppress retries for Command Reject (CMD), Invalid Track Format (ITF), and No Record Found (NRF).
>
> If desired, when all swaps are finished, the above command can be reversed by:
>     DEVSERV QDASD,RETRY=ALL   or   DS QD,RETRY=ALL

**NOTE**: PTF UA67080 for z/OS 1.11 is not actually marked as PE, and no new PTF is available, only because z/OS 1.11 was no longer supported when the problem was discovered. However, the considerations are the same; if you install UA67080, you must install the fix or upgrade for FDRPAS, or use the circumvention.

**OA41057:** this recommended APAR should be applied if you are using Hyperswap with the PTFs for OA37935 (UA64465) installed.

**OA40119:** this critical APAR should be applied if you have applied PTF UA64465 for APAR OA37935 and are using GDPS HyperSwap. Additionally, a SC0D-01 abend may occur in IOSVIRBA.

**OA39822:** this critical APAR should be applied if you have applied the PTF for APAR OA37972, i.e. PTF UA64008 for z/OS 1.11, PTF UA64009 for z/OS 1.12, or PTF UA64010 for z/OS 1.13, and you use System Logger. Otherwise, Logger files for CICS or other applications may have their high-used RBA set to zero, causing FDRPAS (and other copy or backup programs) to treat them as empty and not copy the contents. CICS may be unable to restart.

If you cannot install the fix, you can circumvent the problem by coding SELECT commands (not documented) with DATA=ALL for Logger files. You would also need to add the operand SELTERR=NO to the SWAP

TYPE=FULL control statement to prevent FDR316 DID NOT FIND messages if
a particular SWAP job did not include any of the specified data sets.

Example:

```
  SWAP   TYPE=FULL,SELTERR=NO,...
  MOUNT  VOL=_____,SWAPUNIT=_____
     ...
  SELECT  DSN=**.DFHLOG.**,DATA=ALL      CICS logs
  SELECT  DSN=**.DFHSHUNT.**,DATA=ALL     CICS logs
  SELECT  DSN=**.DFHLGLOG.**,DATA=ALL     log of logs for CICS/VR, etc.
  SELECT  DSN=**.DFHJ++.**,DATA=ALL       user journals
```

NOTE:  There is no fix for APAR OA39822 for z/OS 1.11.  If you have
installed PTF UA64008, you must use the above circumvention.

**OA39804**: this recommended APAR should be applied if zHPF is set to OFF
via the SETIOS command to prevent an S179 abend.

**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 UCBLOOK 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.

**IBM EPSPT TOOL**

Enhanced Preventive System Planning Tool (EPSPT) 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_tool.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 the current z/OS.  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 1.11 AND ABOVE           */
/*                                                         */
/*   PTFS FOR APAR OA42277 NOT PUBLISHED YET AND NOT INCLUDED HERE  */
/* APAR(AA42277) FMID(???????) FIX(UA69274) UPG(FDRPAS). */
/* APAR(AA42277) FMID(???????) FIX(UA69275) UPG(FDRPAS). */
/*                                                         */
APAR(AA41309) FMID(HDZ1C10) FIX(UA68363) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA41309) FMID(HDZ1D10) FIX(UA68364) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA41057) FMID(HBB7780) FIX(UA67938) UPG(FDRPAS) SUP(RECOMMENDED).
APAR(AA40119) FMID(HBB7780) FIX(UA66389) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA39822) FMID(HBB7780) FIX(UA64010) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA39822) FMID(HBB7770) FIX(UA64009) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA39804) FMID(HDZ1D10) FIX(UA66043) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA39804) FMID(HDZ1C10) FIX(UA66042) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA39804) FMID(HDZ1B10) FIX(UA66041) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA36129) FMID(HDZ1C10) FIX(UA60230) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA35902) FMID(HDZ1B10) FIX(UA59486) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA35902) FMID(HDZ1C10) FIX(UA59487) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA34008) FMID(HBB7760) FIX(UA56908) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA34008) FMID(HBB7770) FIX(UA56909) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA31956) FMID(HDZ1B10) FIX(UA52637) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA29579) FMID(HDZ1B10) FIX(UA48403) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA28844) FMID(HDZ1B10) FIX(UA50362) UPG(FDRPAS) SUB(RECOMMENDED).
```

```
/*                                                                    */
APAR(AA27065) FMID(HBB7760) FIX(UA47256) UPG(FDRPAS) SUB(RECOMMENDED).
/*                                                                  */
/*    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(AA35902) FMID(HDZ1A10) FIX(UA59485) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA34008) FMID(HBB7750) FIX(UA56907) 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(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(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(AA27065) FMID(HBB7750) FIX(UA47255) 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(HDZ11J0) FIX(UA38323) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA23211) FMID(HDZ11K0) FIX(UA38319) 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(HBB7709) FIX(UA34276) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA20597) FMID(HBB7720) FIX(UA34277) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA20597) FMID(HBB7730) FIX(UA34278) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA20597) FMID(HBB7740) FIX(UA34279) 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(AA19965) FMID(HDZ1180) FIX(UA37522) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA19965) FMID(HDZ1190) FIX(UA37523) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA16358) FMID(HDZ11K0) FIX(UA28375) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA16358) FMID(HDZ1180) FIX(UA28376) 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).
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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).
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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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