FDRPAS & FDRPASVM ANNOUNCEMENTS

Recommended maintenance to be applied before running FDRPAS

Last updated: June 24, 2015

CHANGES SINCE LAST UPDATE

Added: Recommendation Concerning GDPS/PPRC.

Added: Recommended APAR VM65691 for VM to avoid an ABEND STK017 during a SWAP.

SUPPORTED FDRPAS RELEASES

Version 5.4 Level 78 of FDRPAS and higher are supported. You should not run earlier releases of FDRPAS.

The current release, as of this announcement, is V5.4 Level 83.

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

RECOMMENDATION CONCERNING GDPS/PPRC

The possible GDPS actions for PPRC primary disk problems are governed by the PRIMARYFAILURE policy option as specified in the GEOPLEX OPTIONS definitions. When an installation has HyperSwap, the PRIMARYFAILURE option is usually set to SWAP,xxxx. SWAP indicates that GDPS will perform a HyperSwap if a primary disk failure is detected and HyperSwap is enabled. The second part, xxxx, can be GO or STOP, and specifies the action to take if a primary disk failure is detected while HyperSwap is disabled. GO tells GDPS to freeze the secondary disks by suspending PPRC, and to allow the production systems to continue to run using the primary disks. STOP tells GDPS to freeze the secondary disks by suspending PPRC, and to stop all of the production systems.

The PRIMARYFAILURE policy option can be displayed and changed dynamically using the View/Alter Definitions panels of the GDPS 3270 or Web GUI without the need to change the System Automation policy database.

There is an IBM rule that a SWAP cannot be done while a volume is eligible for HyperSwap. Most installations want to maintain HyperSwap capability for as much of the time as possible. To support this requirement, section 320.6 FDRPAS AND IBM GDPS/PPRC HYPERSWAP in the FDRPAS manual supplies a procedure called the "special 4-step job". This procedure allows HyperSwap to remain enabled while the data is being copied to the target volumes, then disable HyperSwap during the actual UCB SWAPs, and then re-enable HyperSwap immediately afterwards.

It is possible that an I/O error could occur during the short time that HyperSwap is disabled. The I/O error would be a primary failure trigger. It's important to understand the implications of the PRIMARYFAILURE policy values in GDPS, and use one that will not produce undesirable results. For example, consider that the use of SWAP,STOP for PRIMARYFAILURE will result in a reset of all GDPS-managed systems (full sysplex outage) if a primary

failure trigger occurs during the window where FDRPAS has temporarily disabled HyperSwap. Therefore, for installations that want to maximize HyperSwap protection while performing FDRPAS migrations, the use of SWAP,GO is recommended.

SWAP,GO is recommended over just GO, because SWAP,GO allows a HyperSwap if a primary failure trigger occurs during the copy phase, while HyperSwap is enabled. Although there is a possibility of a false trigger associated with FDRPAS processing, it is more likely that a trigger event would be a valid reason for a HyperSwap.

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 Level 78 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

RECOMMENDED MICROCODE ENHANCEMENT ON IBM DS8700, DS8800, AND DS8870 FOR QUERY HOST ACCESS

The Query Host Access (QHA) feature is available for the IBM DS8870, DS8800, and DS8700 control units at the following levels:

DS8870 – Release 7.1, released 6/07/2013
DS8800 – Microcode Bundle 86.31.95.0, released 12/13/2013
DS8700 – Microcode Bundle 76.31.79.0, released 12/13/2013

We urge all FDRPAS customers to install these microcode levels to support enhanced validation by FDRPAS.

Query Host Access gives FDRPAS a list of all the LPARs that have a source volume online, allowing FDRPAS to ensure that monitor tasks are running on all these LPARs. This eliminates the need to use EXCLUDE CPUID= commands for LPARs that are connected to a source volume but do not have the volume online.

For more information on Query Host Access, see sections 320.1, 305.1, and 310.4 in the FDRPAS manual.

NOTE: All EMC Symmetrix control units (except the 4xxx series) already provide comparable support.

FDRPAS & FDRPASVM ANNOUNCEMENTS

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 z/OS 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.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.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.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

APARs that apply to z/OS 1.11 can be found in the May 2013 FDRPAS newsletter at: http://www.fdr.com/newsviaemail/FDRPAS_IBMThirdParty_Maintenance_053113.pdf

The prior edition (January 2015) of this newsletter can be found at: http://fdr.com/newsviaemail/FDRPAS_IBM_ThirdParty_Maintenance_012014.pdf

FDRPAS & FDRPASVM ANNOUNCEMENTS

The prior edition (June 5, 2015) of this newsletter can be found at:
http://www.fdr.com/Manuals_CurrentVersion/FDRPASandFDRPASVM_Announcements(06_2015).pdf

IBM APAR	z/OS 1.12	z/OS 1.13	z/OS 2.1	z/OS 2.2
OA42966*	R	R	R	
OA42277*	C	C	C	
OA41309*	R	R		
OA41057		R		
OA40119		C		
OA40091*	R	R		
OA39822*	C	C		
OA39804	R	R		
OA36129	R			
OA35902*	C			
OA34008*	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:

OA42966: this recommended APAR should be applied if you specify ALLOWPAV=YES and you use HyperPAV. The fix avoids a possible delay of more than 30 seconds at the time of the actual UCB SWAP, which could interfere with application I/O and could cause the SWAP to fail. The fix also avoids an S0C4 ABEND in IOSVIRBD.

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.

OA40091: this recommended APAR should be applied if you do SWAPs from or to devices that support zHPF (which most current devices do), and you have installed the PTFs for APAR OA33089 (UA63003 for z/OS 1.11 or UA63004 for z/OS 1.12) or are running z/OS 1.13. This APAR fixes a problem in which the SWAP completes successfully, but I/O errors and performance issues occur subsequently on the target volume. Note that we have not seen this at any customer site.

If you cannot install the fix, you can disable zHPF until the next IPL with the command: SETIOS ZHPF=NO .

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.

CRITICAL AND RECOMMENDED IBM SOFTWARE MAINTENANCE FOR z/VM SYSTEMS RUNNING FDRPASVM

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

IBM APAR	z/VM 5.4	z/VM 6.2	z/VM 6.3
VM65691*	**R**	**R**	**R**

***** = an IPL is required to implement this fix.

Brief IBM APAR descriptions follow:

VM65691: this recommended APAR fixes an STK017 ABEND that can occur during a SWAP. The problem is rare, but if it happens it crashes the VM system.

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IBM EPSPT TOOL (FOR z/OS SYSTEMS)

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.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              */
/*                                                            */
APAR(AA42966) FMID(HBB7790) FIX(UA71118) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA42966) FMID(HBB7780) FIX(UA71117) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA42966) FMID(HBB7770) FIX(UA71116) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA42277) FMID(HDZ2210) FIX(UA69276) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA42277) FMID(HDZ1D10) FIX(UA69275) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA42277) FMID(HDZ1C10) FIX(UA69274) UPG(FDRPAS) SUB(CRITICAL).
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(AA40091) FMID(HBB7780) FIX(UA66395) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA40091) FMID(HBB7770) FIX(UA66394) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA40091) FMID(HBB7760) FIX(UA66393) UPG(FDRPAS) SUB(RECOMMENDED).
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).
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FDRPAS & FDRPASVM ANNOUNCEMENTS

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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(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 1.11               */
/*                                                                    */
APAR(AA35902) FMID(HDZ1A10) FIX(UA59485) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA34008) FMID(HBB7750) FIX(UA56907) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA31956) FMID(HDZ1B10) FIX(UA52637) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA31956) FMID(HDZ1A10) FIX(UA52636) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA31956) FMID(HDZ1190) FIX(UA52638) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA34008) FMID(HBB7750) FIX(UA56907) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA29579) FMID(HDZ1A10) FIX(UA48402) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA29579) FMID(HDZ1190) FIX(UA48405) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA29579) FMID(HDZ1180) FIX(UA48404) UPG(FDRPAS) SUB(CRITICAL).
APAR(AA28844) FMID(HDZ1B10) FIX(UA50362) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA28844) FMID(HDZ1A10) FIX(UA50361) UPG(FDRPAS) SUB(RECOMMENDED).
APAR(AA28844) FMID(HDZ1190) FIX(UA50363) 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(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).
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FDRPAS & FDRPASVM ANNOUNCEMENTS

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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).
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).
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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).
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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).
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