



## FDRPAS & FDRPASVM ANNOUNCEMENTS

### **Recommended maintenance to be applied before running FDRPAS**

Last updated: January 16, 2014

#### **CHANGES SINCE LAST UPDATE**

Recommended microcode enhancement on IBM DS8700, DS8800, and DS8870 control units for Query Host Access.

Recommended APAR [OA42966](#) to avoid a problem with the use of HyperPAV during a SWAP.

Recommended APAR [OA40091](#) to avoid problems with zHPF I/O after a SWAP.

Recommended EMC ePack fix [67078](#) to avoid a false Data Check on a SWAP of a volume containing VM minidisks.

FDRPASVM (a cost option to FDRPAS for z/OS) is now GA. FDRPASVM enables non-disruptive migration of volumes containing z/VM minidisks, full pack minidisks, volumes dedicated for CMS users, Linux for System z and other guest file systems. FDRPASVM supports z/VM releases 5.4, 6.2, and 6.3. For more information, see [http://fdr.com/newsviaemail/nve\\_fdrpasvm\\_av.cfm](http://fdr.com/newsviaemail/nve_fdrpasvm_av.cfm)

If you are running FDRPASVM, be sure to review the [CRITICAL AND RECOMMENDED IBM SOFTWARE MAINTENANCE FOR z/VM SYSTEMS RUNNING FDRPASVM](#) list that follows the [CRITICAL AND RECOMMENDED IBM SOFTWARE MAINTENANCE FOR z/OS SYSTEMS](#) list.

#### **SUPPORTED FDRPAS RELEASES**

Version 5.4 Level 76 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 80.

Please check the link below for versions released after this announcement: <http://www.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 Level 76 or above.



FDRPAS & FDRPASVM ANNOUNCEMENTS

**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. In the past, there were serious problems involving catalogs using ECS sharing on a volume being SWAPPED. If you are running z/OS 1.9 or below, please see the level of this document that applies to your system level, as listed in the section [CRITICAL AND RECOMMENDED IBM SOFTWARE MAINTENANCE FOR z/OS SYSTEMS](#), for a discussion of these problems, fixes, and what to do if you cannot install the fixes.

There are no known problems involving ECS and FDRPAS in z/OS 1.10 and above.

## FDRPAS &amp; FDRPASVM ANNOUNCEMENTS

**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.

**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.



## FDRPAS & FDRPASVM ANNOUNCEMENTS

### **RECOMMENDED MICROCODE LEVEL FOR EMC SYMMETRIX VMAX**

Customers SWAPPING volumes containing VM minidisks from EMC Symmetrix VMAX at microcode levels below 5876.251.161 build 0028 should install ePack fix 67078 or upgrade to microcode level 5876.251.161 build 0028 or higher, in order to avoid a false Data Check (DCK) on a Read Track (X'DE') command.

If the microcode fix cannot be installed, please install ZAP P-54.8031 for FDRPAS V 5.4/78 or V 5.4/80. The ZAP will prevent FDRPAS from going into a loop when the Data Check occurs and will allow the SWAP to fail.

**NOTE:** This problem affects backups as well as SWAPs.



FDRPAS & FDRPASVM ANNOUNCEMENTS

**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](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](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](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](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](http://www.fdr.com/newsviaemail/FDRPAS_IBMThirdParty_Maintenance_053113.pdf)

IBM APAR	-----z/OS-----		
	1.12	1.13	2.1
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		



## FDRPAS & FDRPASVM ANNOUNCEMENTS

**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 SOC4 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.

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**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=**.DFHGLGLOG.**,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.**

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**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.

### 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.

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.

IBM APAR	-----z/VM-----		
	5.4	6.2	6.3
VM65118	C	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.

Brief IBM APAR descriptions follow:



## FDRPAS & FDRPASVM ANNOUNCEMENTS

**VM65118:** this critical APAR should be applied to prevent CMS Multitasking from incorrectly terminating FDRPASVM error handlers. If the FDRPASVM error handlers are terminated incorrectly, the volume being processed can be left in an unknown state. This fix requires a re-IPL of the FDRPASVM service machine, but not of the VM system itself.

### 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](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).

```



FDRPAS & FDRPASVM ANNOUNCEMENTS

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(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) .  
 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) .



FDRPAS & FDRPASVM ANNOUNCEMENTS

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) .  
 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) .



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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) .
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