

**Oracle® Communications
EAGLE Application Processor**

System Health Check Guide

Release 16.2 and later

E87752 Revision 2

August 2020

ORACLE®

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Refer to My Oracle Support for instructions on accessing My Oracle Support

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1 Introduction

1.1 Purpose and Scope

This document describes the Oracle recommended methods and procedures to evaluate the health of the setup. This document is intended for use for systems running on EPAP release 16.2 or higher.

This document is intended for EAGLE engineering, integration, documentation, technical services, and any craft person who has completed EPAP training and is familiar with EPAP interface.

The document is written to support all customer configurations. All of the commands specified in the procedures should be executed unless explicitly stated otherwise in the individual procedure. Not doing so may result in a delay in the analysis performed by Oracle support.

1.2 Acronyms

This section lists terms and acronyms specific to this document.

Table 1. Acronyms

Acronym/Term	Definition
MPS	Multi-Purpose Server
OC-EPAP	Oracle Communications EAGLE Application Processor
TPD	Tekelec Platform Distribution

1.3 Terminology

Multiple servers may be involved with the procedures in this manual. Therefore, most steps in the written procedures begin with the name or type of server to which the step applies. For example:

Each step has a checkbox 1A for every command within the step that the technician should check to keep track of the progress of the procedure

Each step has a checkbox 1B for every command within the step that the technician should check to keep track of the progress of the procedure

The title box describes the operations to be performed during that +step

Each command that the technician is to enter is in 9 point Lucida Consile font

Output displayed only for reference actual output may differ

1A <input type="checkbox"/>	1B <input type="checkbox"/>	MPS 1A: Verify date	\$ date Thu Apr 20 11:48:24 EDT 2017
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Figure 1. Example of a step that indicates the Server on which it needs to be executed

2 Health Check Overview

2.1.1 Configuration I: Health Check on Provisionable EPAP Mated Pairs

An EPAP system is a pair of MPS servers (an A and a B node). Current deployments of EPAP support two geographically separated EPAP systems that are “mated”, meaning they communicate and replicate PDB information between the two sites. From the PDB perspective, these systems are working in a redundant configuration, this is, one Active and one Standby.

Therefore a mated pair of EPAP systems consists of four MPS servers, an A and a B node for each EPAP system.

This document describes how to conduct the health check of the EPAP software on one system, that system consisting of two MPS servers (A and B).

2.1.2 Configuration II: Health Check on Non-Provisionable EPAP Pairs

EPAP provides the ability to expand the concept of a mated pair of EPAP systems to have up to 24 EPAP systems (48 MPS servers total) configured such that two of the MPS-A servers will run the PDBA software and handle provisioning (Provisionable nodes) and the other 22 MPS-B and 22 MPS-A servers will only run the RTDB software, taking their updates from the two Provisionable servers.

This document describes how to conduct the health check of the EPAP software on one system, that system consisting of two Non-Provisionable servers.

2.1.3 Configuration III: Health Check on Standalone Provisionable EPAP

A Standalone PDB runs the PDB process only and is connected to Non-Provisionable running RTDB only. Up to 22 Non-Provisional EPAP mated pairs can be connected to 2 Standalone PDB EPAPs that are configured as Active/Standby.

This document describes how to conduct the health check of the EPAP software on one system, that system consisting of a single Provisionable server.

Note: Most of the steps to perform health check are common for all three configurations except a few steps which will be exclusively highlighted to run on a particular configuration.

3 Pre-Health Check Requirements


- User shall have the access to the server on which health check is to be performed via Securelink, VPN and/or via Modem or a PC with null modem cable for connection to serial port.
- User shall be able to log into the web GUI, such as a PC with Internet Explorer, or via lynx text GUI.
- User shall have the terminal capture enabled to allow review of the output.
- User shall have the passwords for the following users as mentioned in table below:

User	Password
epapconfig	
epapdev	
admusr	

4 EPAP Health Check

4.1 System Status

These steps can be performed on any of the EPAP configurations as mentioned in section 2. For mated pairs, commands should be run on both of the servers.

S T E P #	Steps To Be Completed	Expected output/command to be executed
1. <input type="checkbox"/>	MPS X: Login as admusr	1. login: admusr password: <admusr_password>
2. <input type="checkbox"/>	MPS X: Record the TPD version	\$ getPlatRev 7.4.0.0-88.37.0
3. <input type="checkbox"/>	MPS X: Verify that the time difference between servers is 30 seconds or less.	\$ sudo date ; sudo clock Thu Apr 20 11:48:24 EDT 2017 Thu 20 Apr 2017 11:48:25 AM EDT -0.031459 seconds
4. <input type="checkbox"/>	MPS X: Verify that the ntp server is in sync Delay should be less than 30 seconds	\$ ntpq -p remote refid st t when poll reach delay offset jitter ===== mate 192.168.2.100 14 u 149m 1024 0 9.383 -631537 0.000
5. <input type="checkbox"/>	MPS X: Record the last reboot occurred	\$ uptime 12:03:59 up 9:12, 2 users, load average: 0.32, 0.35, 0.32 Note: A server reboot is recommended after every 180 days.
6. <input type="checkbox"/>	MPS X: Record the EPAP release number from rpm query.	\$ rpm -qi TKLCepap Name : TKLCepap Relocations: (not relocatable) Version : 162.0.13 Vendor: Tekelec Release : 16.2.0.0.0_162.13.0 Build Date: Tue 18 Apr 2017 04:12:33 PM EDT Install Date: Thu 20 Apr 2017 02:53:42 AM EDT Build Host: coach-10.tekelec.com Group : Development/Build Source RPM: TKLCepap-162.0.13-16.2.0.0.0_162.13.0.src.rpm Size : 52336075 License:  TEKELEC 2005-2017 Signature : (none) Packager : <@tekelec.com>

		<p>URL : http://www.tekelec.com/</p> <p>Summary : Oracle Communications EPAP Package</p> <p>Description :</p> <p>This is the Oracle Communications EAGLE Application Processor(EPAP) Package.</p> <p>The Package installs EPAP software. EPAP provides Provisioning Database Application (PDBA on A side) and Real Time Database (RTDB).</p>
7. <input type="checkbox"/>	<p>MPS X: Verify system health check</p>	<pre>\$ sudo syscheck Running modules in class disk... OK Running modules in class hardware... OK Running modules in class net... OK Running modules in class proc... OK Running modules in class services... OK Running modules in class system... OK Running modules in class upgrade... OK LOG LOCATION: /var/TKLC/log/syscheck/fail_log</pre> <p>Note: Incase one or more modules FAILED, rerun the command with verbose option like: \$ sudo syscheck -v Record the output and contact My Oracle Support.</p>
8. <input type="checkbox"/>	<p>MPS X: Verify all current banner header messages</p>	<pre>\$ manageBannerInfo -l</pre> <p>There are currently no BannerInfo messages for this side in the database.</p> <p>Note: In case there are any alarms record those alarms and contact My Oracle Support.</p>
9. <input type="checkbox"/>	<p>MPS X: Retrieve alarm status from alarm manager.</p>	<pre>\$ alarmMgr --alarmStatus</pre> <p>Note: No output will be displayed if there are no alarms on the system. In case any output is observed record the output. Sample alarms are displayed below:</p> <pre>\$ alarmMgr --alarmStatus SEQ: 17272594 UPTIME: 14280330 BIRTH: 1356031430 TYPE: SET ALARM: TKSPLATMA1 tpdFanError 1.3.6.1.4.1.323.5.3.18.3.1.2.1</pre>
10. <input type="checkbox"/>	<p>MPS X: Record the last lines of alarm log</p>	<pre>\$ tail -40 /var/TKLC/epap/logs/alarm.log 20170420031934 ELAP LocalMaint S Minor Application 1 20170420031934 EPAP LocalMaint S 1000 20170420031934 ELAP LocalMaint S Minor Application 2 20170420031939 EPAP LocalMaint C 1000 20170420031939 ELAP LocalMaint C Minor Application 2 20170420031939 EPAP LocalMaint C 800 20170420031939 ELAP LocalMaint C Minor Application 1 20170420031949 ELAP LocalMaint C Major Application 40000000 20170420032432 ELAP LocalMaint S Major Application 40000000 20170420032435 EPAP LocalMaint S 800 20170420032435 ELAP LocalMaint S Minor Application 1 20170420032436 EPAP LocalMaint S 1000 20170420032436 ELAP LocalMaint S Minor Application 2</pre>

		<p>20170420032439 EPAP LocalMaint C 800 20170420032439 ELAP LocalMaint C Minor Application 1 20170420032440 EPAP LocalMaint C 1000 20170420032440 ELAP LocalMaint C Minor Application 2 20170420032449 ELAP LocalMaint C Major Application 40000000 20170420032931 ELAP LocalMaint S Major Application 40000000 20170420032935 EPAP LocalMaint S 800 20170420032935 ELAP LocalMaint S Minor Application 1 20170420032935 EPAP LocalMaint S 1000 20170420032935 ELAP LocalMaint S Minor Application 2 20170420032939 EPAP LocalMaint C 1000 20170420032939 ELAP LocalMaint C Minor Application 2 20170420032940 EPAP LocalMaint C 800 20170420032940 ELAP LocalMaint C Minor Application 1 20170420032949 ELAP LocalMaint C Major Application 40000000 20170420033432 ELAP LocalMaint S Major Application 40000000 20170420033435 EPAP LocalMaint S 800 20170420033435 ELAP LocalMaint S Minor Application 1 20170420033436 EPAP LocalMaint S 1000 20170420033436 ELAP LocalMaint S Minor Application 2 20170420033440 EPAP LocalMaint C 800 20170420033440 ELAP LocalMaint C Minor Application 1 20170420033440 EPAP LocalMaint C 1000 20170420033440 ELAP LocalMaint C Minor Application 2 20170420033449 ELAP LocalMaint C Major Application 40000000 20170420033541 ELAP LocalMaint S Major Application 1 20170420033541 ELAP LocalMaint C Major Application 1</p>
11. <input type="checkbox"/>	<p>MPS X: Record the last lines of messages log</p>	<pre>\$ tail -40 /var/log/messages Apr 20 02:56:30 Natal-A kernel: type=1305 audit(1492671389.509:3): audit_pid=3222 old=0 auid=4294967295 ses=4294967295 res=1 Apr 20 02:56:31 Natal-A xinetd[3528]: xinetd Version 2.3.14 started with libwrap loadavg labeled-networking options compiled in. Apr 20 02:56:31 Natal-A xinetd[3528]: Started working: 1 available service Apr 20 02:56:31 Natal-A ntpdate[3544]: name server cannot be used: Temporary failure in name resolution (-3) Apr 20 02:56:31 Natal-A ntpdate[3544]: name server cannot be used: Temporary failure in name resolution (-3) Apr 20 02:56:31 Natal-A ntpdate[3544]: name server cannot be used: Temporary failure in name resolution (-3) Apr 20 02:56:31 Natal-A ntpdate[3544]: name server cannot be used: Temporary failure in name resolution (-3) Apr 20 02:52:28 Natal-A ntpdate[3544]: step time server 192.168.2.200 offset -243.364332 sec Apr 20 02:52:29 Natal-A kernel: ACPI Warning: SystemIO range 0x00000000000000a70-0x00000000000000a71 conflicts with OpRegion 0x00000000000000a00-0x00000000000000a7f (_SB_.PCI0.SBRG.RNTR) (20090903/utaddress-254) Apr 20 02:52:29 Natal-A kernel: ACPI: This conflict may cause random problems and system instability Apr 20 02:52:29 Natal-A kernel: coretemp coretemp.0: TjMax forced to 95 degrees C by user</pre>

		<p>Apr 20 02:52:29 Natal-A kernel: coretemp coretemp.0: TjMax forced to 95 degrees C by user</p> <p>Apr 20 02:52:29 Natal-A kernel: Cypress init</p> <p>Apr 20 02:52:30 Natal-A ntpd[3583]: ntpd 4.2.6p5@1.2349-o Tue Mar 7 22:14:23 UTC 2017 (1)</p> <p>Apr 20 02:52:30 Natal-A ntpd[3584]: proto: precision = 0.063 usec</p> <p>Apr 20 02:52:34 Natal-A kernel: tklc_e5appb_wd: module_layout: kernel tainted.</p> <p>Apr 20 02:52:34 Natal-A kernel: Disabling lock debugging due to kernel taint</p> <p>Apr 20 02:52:34 Natal-A kernel: tklc_e5appb_wd: loading, built Feb 20 2016, 04:46:41</p> <p>Apr 20 02:52:34 Natal-A kernel: tklc_e5appb_wd: create proc entry</p> <p>Apr 20 02:52:35 Natal-A kernel: tklc_e5appb_wd: Driver major id is 0</p> <p>Apr 20 02:54:21 Natal-A sudo: epapdev : TTY=unknown ; PWD=/var/TKLC/epap/logs ; USER=root ; COMMAND=/sbin/initctl stop TKLCSnmp</p> <p>Apr 20 02:54:21 Natal-A sudo: epapdev : TTY=unknown ; PWD=/var/TKLC/epap/logs ; USER=root ; COMMAND=/sbin/initctl start TKLCSnmp</p> <p>Apr 20 02:54:23 Natal-A sudo: epapdev : TTY=unknown ; PWD=/var/TKLC/epap/logs ; USER=root ; COMMAND=/sbin/initctl restart TKLCSnmp</p> <p>Apr 20 02:54:24 Natal-A init: runGsConn main process ended, respawning</p> <p>Apr 20 04:02:03 Natal-A kernel: Cypress exit</p> <p>Apr 20 04:02:04 Natal-A kernel: Cypress init</p> <p>Apr 20 10:18:08 Natal-A sudo: admusr : TTY=pts/0 ; PWD=/home/admusr ; USER=root ; COMMAND=/bin/su -</p> <p>Apr 20 11:14:24 Natal-A sudo: admusr : TTY=pts/0 ; PWD=/home/admusr ; USER=root ; COMMAND=/usr/TKLC/plat/bin/getPlatRev</p> <p>Apr 20 11:45:47 Natal-A sudo: admusr : TTY=pts/0 ; PWD=/home/admusr ; USER=root ; COMMAND=/sbin/clock</p> <p>Apr 20 11:46:30 Natal-A sudo: admusr : TTY=pts/0 ; PWD=/home/admusr ; USER=root ; COMMAND=/bin/date</p> <p>Apr 20 11:46:34 Natal-A sudo: admusr : TTY=pts/0 ; PWD=/home/admusr ; USER=root ; COMMAND=/sbin/clock</p> <p>Apr 20 11:48:24 Natal-A sudo: admusr : TTY=pts/0 ; PWD=/home/admusr ; USER=root ; COMMAND=/bin/date</p> <p>Apr 20 11:48:24 Natal-A sudo: admusr : TTY=pts/0 ; PWD=/home/admusr ; USER=root ; COMMAND=/sbin/clock</p> <p>Apr 20 12:03:59 Natal-A sudo: admusr : TTY=pts/0 ; PWD=/home/admusr ; USER=root ; COMMAND=/usr/bin/uptime</p> <p>Apr 20 12:10:24 Natal-A sudo: admusr : TTY=pts/0 ; PWD=/home/admusr ; USER=root ; COMMAND=/usr/TKLC/plat/bin/syscheck</p>
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		<pre>Apr 20 12:14:12 Natal-A sudo: admusr : TTY=pts/0 ; PWD=/home/admusr ; USER=root ; COMMAND=/usr/TKLC/epap/bin/manageBannerInfo -l Apr 20 12:35:14 Natal-A sudo: admusr : TTY=pts/0 ; PWD=/home/admusr ; USER=root ; COMMAND=/usr/bin/clear Apr 20 12:35:19 Natal-A sudo: admusr : TTY=pts/0 ; PWD=/home/admusr ; USER=root ; COMMAND=/sbin/vgdisplay -v Apr 20 12:46:35 Natal-A sudo: admusr : TTY=pts/0 ; PWD=/home/admusr ; USER=root ; COMMAND=/usr/bin/free Apr 20 12:54:45 Natal-A sudo: admusr : TTY=pts/0 ; PWD=/home/admusr ; USER=root ; COMMAND=/bin/df -h</pre>
12. <input type="checkbox"/>	<p>MPS X: Verify the attributes of volume groups</p> <p>If the output does not contain the “logical volume” sections, contact Oracle Support so that corrective procedures can be scheduled to be performed.</p>	<pre>\$ sudo vgdisplay -v --- Logical volume --- LV Path /dev/vgroot/logs LV Name logs VG Name vgroot LV UUID Fy9hhq-zz90-7WwG-xC30-c22K-zZgs-npnP75 LV Write Access read/write LV Creation host, time Natal-A, 2017-04-17 22:55:23 -0400 LV Status available # open 1 LV Size 20.00 GiB Current LE 640 Segments 1 Allocation inherit Read ahead sectors auto - currently set to 256 Block device 253:6 --- Logical volume --- LV Path /dev/vgroot/rt LV Name rt VG Name vgroot LV UUID eNZJoS-FTh8-brF5-XA11-0qJS-t0IE-hSwvis LV Write Access read/write LV Creation host, time Natal-A, 2017-04-17 22:55:24 -0400 LV Status available # open 1 LV Size 19.69 GiB Current LE 630 Segments 1</pre>

	<pre> Allocation inherit Read ahead sectors auto - currently set to 256 Block device 253:7 --- Logical volume --- LV Path /dev/vgroot/db LV Name db VG Name vgroot LV UUID WAhMqc-1v0Z-s9vX-Mpe3-EM8f-D8w4-FuJQe7 LV Write Access read/write LV Creation host, time Natal-A, 2017-04-17 22:55:25 -0400 LV Status available # open 1 LV Size 83.69 GiB Current LE 2678 Segments 1 Allocation inherit Read ahead sectors auto - currently set to 256 Block device 253:8 --- Logical volume --- LV Path /dev/vgroot/free LV Name free VG Name vgroot LV UUID JEBXAJ-mpa0-ygZm-IUOm-bETP-QcNc-OKIIIN LV Write Access read/write LV Creation host, time Natal-A, 2017-04-17 22:55:26 -0400 LV Status available # open 1 LV Size 142.72 GiB Current LE 4567 Segments 1 Allocation inherit Read ahead sectors auto - currently set to 256 Block device 253:9 </pre>
--	--

		<pre> --- Physical volumes --- PV Name /dev/md2 PV UUID RynwYj-PTdf-eHsL-x9hs-CgHC-1DiP-g0sStS PV Status allocatable Total PE / Free PE 8930 / 0 </pre>
13. <input type="checkbox"/>	<p>MPS X: Record the total amount of free and used physical and swap memory in the system.</p>	<pre> \$ free total used free shared buffers cached Mem: 8059380 2659476 5399904 539560 234092 1139488 -/+ buffers/cache: 1285896 6773484 Swap: 2064380 0 2064380 </pre>
14. <input type="checkbox"/>	<p>MPS X: Verify db filesystem use is less than 90%. Note any other filesystem at 80% or higher use. Output will vary for each server.</p>	<pre> \$ df -h Filesystem Size Used Avail Use% Mounted on /dev/mapper/vgroot-plat_root 976M 285M 640M 31% / tmpfs 3.9G 0 3.9G 0% /dev/shm /dev/md1 244M 40M 192M 17% /boot /dev/mapper/vgroot-plat_tmp 976M 2.0M 923M 1% /tmp /dev/mapper/vgroot-plat_usr 3.9G 2.5G 1.3G 67% /usr /dev/mapper/vgroot-plat_var 976M 145M 780M 16% /var /dev/mapper/vgroot-plat_var_tklc 3.9G 2.1G 1.7G 56% /var/TKLC /dev/mapper/vgroot-db 83G 51G 28G 65% /var/TKLC/epap/db /dev/mapper/vgroot-free 141G 60M 134G 1% /var/TKLC/epap/free /dev/mapper/vgroot-logs 20G 569M 19G 3% /var/TKLC/epap/logs /dev/mapper/vgroot-rt 20G 45M 19G 1% /var/TKLC/epap/rt </pre>
15. <input type="checkbox"/>	<p>MPS X: Verify disk mirroring configuration and RAID status</p>	<pre> \$ cat /proc/mdstat Personalities : [raid1] md1 : active raid1 sdb2[1] sda2[0] 262080 blocks super 1.0 [2/2] [UU] md2 : active raid1 sdb1[1] sda1[0] 468447232 blocks super 1.1 [2/2] [UU] bitmap: 1/4 pages [4KB], 65536KB chunk unused devices: <none> </pre>

<p>16. <input type="checkbox"/></p>	<p>MPS X: Record the hard drive and partition size</p>	<pre>\$ fdisk -l /dev/sd[a-z]</pre> <p>Disk /dev/sda: 480.1 GB, 480103981056 bytes 255 heads, 63 sectors/track, 58369 cylinders Units = cylinders of 16065 * 512 = 8225280 bytes Sector size (logical/physical): 512 bytes / 4096 bytes I/O size (minimum/optimal): 4096 bytes / 4096 bytes Disk identifier: 0x000cfb5b</p> <table border="1"> <thead> <tr> <th>Device</th> <th>Boot</th> <th>Start</th> <th>End</th> <th>Blocks</th> <th>Id</th> <th>System</th> </tr> </thead> <tbody> <tr> <td>/dev/sda1</td> <td></td> <td>1</td> <td>58336</td> <td>468578304</td> <td>fd</td> <td>Linux raid autodetect</td> </tr> <tr> <td>/dev/sda2</td> <td>*</td> <td>58336</td> <td>58369</td> <td>262144</td> <td>fd</td> <td>Linux raid autodetect</td> </tr> </tbody> </table> <p>Disk /dev/sdb: 480.1 GB, 480103981056 bytes 255 heads, 63 sectors/track, 58369 cylinders Units = cylinders of 16065 * 512 = 8225280 bytes Sector size (logical/physical): 512 bytes / 4096 bytes I/O size (minimum/optimal): 4096 bytes / 4096 bytes Disk identifier: 0x000eba47</p> <table border="1"> <thead> <tr> <th>Device</th> <th>Boot</th> <th>Start</th> <th>End</th> <th>Blocks</th> <th>Id</th> <th>System</th> </tr> </thead> <tbody> <tr> <td>/dev/sdb1</td> <td></td> <td>1</td> <td>58336</td> <td>468578304</td> <td>fd</td> <td>Linux raid autodetect</td> </tr> <tr> <td>/dev/sdb2</td> <td>*</td> <td>58336</td> <td>58369</td> <td>262144</td> <td>fd</td> <td>Linux raid autodetect</td> </tr> </tbody> </table> <p>Disk /dev/sdc: 4089 MB, 4089446400 bytes 256 heads, 63 sectors/track, 495 cylinders Units = cylinders of 16128 * 512 = 8257536 bytes Sector size (logical/physical): 512 bytes / 512 bytes I/O size (minimum/optimal): 512 bytes / 512 bytes Disk identifier: 0x488965c1</p>	Device	Boot	Start	End	Blocks	Id	System	/dev/sda1		1	58336	468578304	fd	Linux raid autodetect	/dev/sda2	*	58336	58369	262144	fd	Linux raid autodetect	Device	Boot	Start	End	Blocks	Id	System	/dev/sdb1		1	58336	468578304	fd	Linux raid autodetect	/dev/sdb2	*	58336	58369	262144	fd	Linux raid autodetect
Device	Boot	Start	End	Blocks	Id	System																																						
/dev/sda1		1	58336	468578304	fd	Linux raid autodetect																																						
/dev/sda2	*	58336	58369	262144	fd	Linux raid autodetect																																						
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/dev/sdb1		1	58336	468578304	fd	Linux raid autodetect																																						
/dev/sdb2	*	58336	58369	262144	fd	Linux raid autodetect																																						
<p>17. <input type="checkbox"/></p>	<p>MPS X: Verify smartctl output</p>	<pre>\$ smartctl -A -l error /dev/sda</pre> <p>smartctl 5.43 2012-06-30 r3573 [x86_64-linux-2.6.32-642.15.1.el6prere17.4.0.0_88.37.0.x86_64] (local build) Copyright (C) 2002-12 by Bruce Allen, http://smartmontools.sourceforge.net</p> <p>==== START OF READ SMART DATA SECTION ==== SMART Attributes Data Structure revision number: 1 Vendor Specific SMART Attributes with Thresholds:</p>																																										

ID#	ATTRIBUTE_NAME	FLAG	VALUE	WORST	THRESH		
TYPE	UPDATED	WHEN_FAILED	RAW_VALUE				
5	Reallocated_Sector_Ct	0x0032	100	100	000	Old_age	Always
-	0						
9	Power_On_Hours	0x0032	100	100	000	Old_age	Always
-	17015						
12	Power_Cycle_Count	0x0032	100	100	000	Old_age	Always
-	40						
170	Unknown_Attribute	0x0033	100	100	010	Pre-fail	Always
-	0						
171	Unknown_Attribute	0x0032	100	100	000	Old_age	Always
-	0						
172	Unknown_Attribute	0x0032	100	100	000	Old_age	Always
-	0						
174	Unknown_Attribute	0x0032	100	100	000	Old_age	Always
-	38						
175	Program_Fail_Count_Chip	0x0033	100	100	010	Pre-fail	Always
-	386979594890						
183	Runtime_Bad_Block	0x0032	100	100	000	Old_age	Always
-	0						
184	End-to-End_Error	0x0033	100	100	090	Pre-fail	Always
-	0						
187	Reported_Uncorrect	0x0032	100	100	000	Old_age	Always
-	0						
190	Airflow_Temperature_Cel	0x0022	077	068	000	Old_age	Always
-	23 (Min/Max 19/33)						
192	Power-Off_Retract_Count	0x0032	100	100	000	Old_age	Always
-	38						
194	Temperature_Celsius	0x0022	100	100	000	Old_age	Always
-	34						
197	Current_Pending_Sector	0x0032	100	100	000	Old_age	Always
-	0						
199	UDMA_CRC_Error_Count	0x003e	100	100	000	Old_age	Always
-	0						
225	Load_Cycle_Count	0x0032	100	100	000	Old_age	Always
-	1266712						
226	Load-in_Time	0x0032	100	100	000	Old_age	Always
-	3614						
227	Torq-amp_Count	0x0032	100	100	000	Old_age	Always
-	70						
228	Power-off_Retract_Count	0x0032	100	100	000	Old_age	Always
-	1020808						
232	Available_Reservd_Space	0x0033	100	100	010	Pre-fail	Always
-	0						
233	Media_Wearout_Indicator	0x0032	097	097	000	Old_age	Always
-	0						

		<pre> 234 Unknown_Attribute 0x0032 100 100 000 Old_age Always - 0 241 Total_LBAs_Written 0x0032 100 100 000 Old_age Always - 1266712 242 Total_LBAs_Read 0x0032 100 100 000 Old_age Always - 3024125 SMART Error Log Version: 1 No Errors Logged Note: If any error is observed record the error and contact Oracle Support. </pre>
18. <input type="checkbox"/>	<p>MPS X: Start Disk Integrity Check</p>	<pre> \$ smartctl -t short /dev/sda smartctl 5.43 2012-06-30 r3573 [x86_64-linux-2.6.32- 642.15.1.el6prere17.4.0.0_88.37.0.x86_64] (local build) Copyright (C) 2002-12 by Bruce Allen, http://smartmontools.sourceforge.net === START OF OFFLINE IMMEDIATE AND SELF-TEST SECTION === Sending command: "Execute SMART Short self-test routine immediately in off-line mode". Drive command "Execute SMART Short self-test routine immediately in off-line mode" successful. Testing has begun. Please wait 1 minutes for test to complete. Test will complete after Fri Apr 21 10:37:14 2017 Use smartctl -x to abort test. </pre>
19. <input type="checkbox"/>	<p>MPS X: Verify and record Disk Integrity Check results</p>	<pre> \$ sleep 60; smartctl -l selftest /dev/sda smartctl 5.43 2012-06-30 r3573 [x86_64-linux-2.6.32- 642.15.1.el6prere17.4.0.0_88.37.0.x86_64] (local build) Copyright (C) 2002-12 by Bruce Allen, http://smartmontools.sourceforge.net === START OF READ SMART DATA SECTION === SMART Self-test log structure revision number 1 Num Test_Description Status Remaining LifeTime(hours) LBA_of_first_error # 1 Short offline Completed without error 00% 17015 - Note: Record if any error is reported and contact Oracle Support. </pre>
20. <input type="checkbox"/>	<p>MPS X: Record any hard disk sector error</p>	<pre> \$ smartctl -a /dev/sda grep -i LBA 241 Total_LBAs_Written 0x0032 100 100 000 Old_age Always - 1266713 242 Total_LBAs_Read 0x0032 100 100 000 Old_age Always - 3024305 </pre>

		<p>Num Test_Description Status Remaining LifeTime(hours) LBA_of_first_error</p> <p>SPAN MIN_LBA MAX_LBA CURRENT_TEST_STATUS</p> <p>Note: No error should be observed in case any error is observed output will be like as mentioned below, record the output and contact Oracle Support</p> <p>40 51 a0 11 8e 57 e0 Error: UNC 160 sectors at LBA = 0x00578e11 = 538001</p> <p>40 51 a8 11 8e 57 e0 Error: UNC 168 sectors at LBA = 0x00578e11 = 538001</p> <p>Num Test_Description Status Remaining LifeTime(hours) LBA_of_first_error</p> <p>If UNC errors are found, execute following command: \$ smartctl -a /dev/sda</p>
21. <input type="checkbox"/>	MPS X: Disk integrity step on second HDD	Repeat steps from 17 to 20 for "/dev/sdb" disk drive.
22. <input type="checkbox"/>	MPS X: Repeat the procedure for mate EPAP	Repeat steps from 1 to 21 on mate EPAP server, if setup is not PDBonly.

4.2 System Configuration

These steps can be performed on any of the EPAP configurations as mentioned in section 2. For mated pairs, commands should be run on both of the servers.

S T E P #	Steps To Be Completed	Expected output/command to be executed
1. <input type="checkbox"/>	MPS X: Login as admusr	login: admusr password: <admusr_password>
2. <input type="checkbox"/>	MPS X: Record and verify the system configuration Select Option 1 from epapconfig menu.	<pre>\$ sudo su - epapconfig MPS Side A: hostname: Sucre-a hostid: 4b0a688d Platform Version: 6.1.4-7.4.0.0_88.37.0 Software Version: EPAP 162.0.13-0.59261 Fri Apr 21 08:27:27 EDT 2017 /-----EPAP Configuration Menu-----\ /-----\ 1 Display Configuration --- ----- 2 Configure Network Interfaces Menu --- ----- 3 Set Time Zone --- ----- 4 Exchange Secure Shell Keys --- ----- </pre>

```

| 5 | Change Password |
|-----|
| 6 | Platform Menu |
|-----|
| 7 | Configure NTP Server |
|-----|
| 8 | PDB Configuration Menu |
|-----|
| 9 | Security |
|-----|
| 10 | SNMP Configuration |
|-----|
| 11 | Configure Alarm Feed |
|-----|
| 12 | Configure SNMP Agent Community |
|-----|
| 13 | Mate Disaster Recovery |
|-----|
| e | Exit |
|-----|
\-----/

```

Enter choice: 1

MPS Side A: hostname: Sucre-a hostid: 4b0a688d
Platform Version: 6.1.4-7.4.0.0_88.37.0
Software Version: EPAP 162.0.13-0.59261
Fri Apr 21 09:41:50 EDT 2017

```

EPAP A Provisioning Network IP Address = 10.75.141.104
EPAP A Provisioning Network IP Address v6 = Not configured
EPAP B Provisioning Network IP Address = 10.75.141.105
EPAP B Provisioning Network IP Address v6 = Not configured
Provisioning Network Netmask = 255.255.255.0
Provisioning Network Prefix = Not configured
Provisioning Network Default Router = 10.75.141.1
Provisioning Network Default Router v6 = Not configured
EPAP A Backup Prov Network IP Address = Not configured
EPAP A Backup Prov Network IP Address v6 = Not configured
EPAP B Backup Prov Network IP Address = Not configured
EPAP B Backup Prov Network IP Address v6 = Not configured
Backup Prov Network Netmask = Not configured
Backup Prov Network Prefix v6 = Not configured
Backup Prov Network Default Router = Not configured
Backup Prov Network Default Router v6 = Not configured
EPAP A Sync Network Address = 192.168.2.100
EPAP B Sync Network Address = 192.168.2.200
EPAP A Main DSM Network Address = 192.168.120.100
EPAP B Main DSM Network Address = 192.168.120.200
EPAP A Backup DSM Network Address = 192.168.121.100
EPAP B Backup DSM Network Address = 192.168.121.200
EPAP IP Version = IPv4
EPAP A HTTP Port = 80
EPAP B HTTP Port = 80
EPAP A HTTP SuExec Port = 8001
EPAP B HTTP SuExec Port = 8001
EPAP A Banner Connection Port = 8473
EPAP B Banner Connection Port = 8473
EPAP A Static NAT Address = Not configured
EPAP B Static NAT Address = Not configured
PDBI Port = 5873

```

		<pre> Remote MPS A Static NAT Address = Not configured Remote MPS A HTTP Port = 80 Local PDBA Address = 10.250.54.108 Local PDBA Address v6 = 0000:0000:0000:0000:0000:0000:0000:0000 Remote PDBA Address = 0.0.0.0 Time Zone = America/New_York PDB Database = None - Non-provisionable Site Preferred PDB = 10.250.54.108 Allow updates from alternate PDB = Yes Press return to continue... </pre>
<p>3. <input type="checkbox"/></p>	<p>MPS X: Record and verify the ntp configuration Select Option 7 from epapconfig menu and then Option 1 from EPAP Configure NTP Server Menu.</p>	<pre> \$ sudo su - epapconfig MPS Side A: hostname: Sucre-a hostid: 4b0a688d Platform Version: 6.1.4-7.4.0.0.0_88.37.0 Software Version: EPAP 162.0.13-0.59261 Fri Apr 21 08:27:27 EDT 2017 /----EPAP Configuration Menu-----\ /-----\ 1 Display Configuration --- ----- 2 Configure Network Interfaces Menu --- ----- 3 Set Time Zone --- ----- 4 Exchange Secure Shell Keys --- ----- 5 Change Password --- ----- 6 Platform Menu --- ----- 7 Configure NTP Server --- ----- 8 PDB Configuration Menu --- ----- 9 Security --- ----- 10 SNMP Configuration --- ----- 11 Configure Alarm Feed --- ----- 12 Configure SNMP Agent Community --- ----- 13 Mate Disaster Recovery --- ----- e Exit \-----/ Enter choice: 7 Verifying connectivity with mate... MPS Side A: hostname: Sucre-a hostid: 4b0a688d Platform Version: 6.1.4-7.4.0.0.0_88.37.0 Software Version: EPAP 162.0.13-0.59261 Fri Apr 21 09:46:58 EDT 2017 /----EPAP Configure NTP Server Menu-\ /-----\ 1 Display External NTP Server </pre>

		<pre> ----- 2 Add External NTP Server ----- 3 Remove External NTP Server ----- e Exit \-----/ Enter choice: 1 Note: If external NTP servers configured, the output will be: ntpserver1 10.10.10.10 ntpserver2 20.20.20.20 Press return to continue... Note: If no external NTP servers configured, the output will be: There are no External NTP Servers. Press return to continue... </pre>
4. <input type="checkbox"/>	<p>MPS X: Exit from epapconfig menu</p>	<pre> MPS Side A: hostname: Sucre-a hostid: 4b0a688d Platform Version: 6.1.4-7.4.0.0_88.37.0 Software Version: EPAP 162.0.13-0.59261 Fri Apr 21 09:53:03 EDT 2017 /----EPAP Configure NTP Server Menu-\ /-----\ 1 Display External NTP Server ----- 2 Add External NTP Server ----- 3 Remove External NTP Server ----- e Exit \-----/ Enter choice: e MPS Side A: hostname: Sucre-a hostid: 4b0a688d Platform Version: 6.1.4-7.4.0.0_88.37.0 Software Version: EPAP 162.0.13-0.59261 Fri Apr 21 09:53:04 EDT 2017 /----EPAP Configuration Menu-----\ /-----\ 1 Display Configuration ----- 2 Configure Network Interfaces Menu ----- 3 Set Time Zone ----- 4 Exchange Secure Shell Keys ----- 5 Change Password ----- 6 Platform Menu ----- 7 Configure NTP Server ----- 8 PDB Configuration Menu ----- </pre>

		<pre> 9 Security ----- 10 SNMP Configuration ----- 11 Configure Alarm Feed ----- 12 Configure SNMP Agent Community ----- 13 Mate Disaster Recovery ----- e Exit \-----/</pre> <p>Enter Choice: e</p>
5. <input type="checkbox"/>	<p>MPS X: Record /etc/hosts configuration</p>	<pre>\$ cat /etc/hosts # # Do not modify this file by hand. Refer to Oracle Configuration # documentation. # # The order of the aliases in this file is significant # to the installation process. # 127.0.0.1 localhost localhost ::1 localhost6 localhost6 192.168.120.100 dsmm-a 192.168.121.100 dsmb-a 192.168.120.200 dsmm-b 192.168.121.200 dsmb-b 192.168.2.200 mate sync-b ntppeerB hasync-1a 192.168.2.100 sync-a hasync-1b 192.168.2.201 mate-ipdptp0 server_ppp0 192.168.2.202 mate-ppp client_ppp0 192.168.2.101 Natal-A-ipdptp0 server_ppp1 192.168.2.102 Natal-A-ppp client_ppp1 192.168.1.1 Natal-A-prov-bkup 0000:0000:0000:0000:ffff:c0a8:0101 Natal-A-prov-bkup 192.168.1.2 mate-prov-bkup 0000:0000:0000:0000:ffff:c0a8:0102 mate-prov-bkup 192.168.2.1 switch1A 192.168.2.2 switch1B 192.168.2.3 switch1C 192.168.2.4 switch1D 10.75.141.47 Natal-A prova-ip pdba 10.75.141.48 Natal-B mate-prov provb-ip</pre>
6. <input type="checkbox"/>	<p>MPS X: Verify and Record IPs configured on each interface</p>	<pre>\$ ifconfig -a eth01 Link encap:Ethernet HWaddr 00:00:17:0E:A6:A1 inet addr:10.75.141.47 Bcast:10.75.141.127 Mask:255.255.255.128 inet6 addr: 2606:b400:605:b917:200:17ff:fe0e:a6a1/64 Scope:Global inet6 addr: fe80::200:17ff:fe0e:a6a1/64 Scope:Link UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 RX packets:245677 errors:0 dropped:0 overruns:0 frame:0 TX packets:226616 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:22862561 (21.8 MiB) TX bytes:34665179 (33.0 MiB) Memory:fdee0000-fdeffff eth02 Link encap:Ethernet HWaddr 00:00:17:0E:A6:A0 inet addr:192.168.120.100 Bcast:192.168.120.255 Mask:255.255.255.0 inet6 addr: fe80::200:17ff:fe0e:a6a0/64 Scope:Link</pre>

		<p>UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 RX packets:309286 errors:0 dropped:0 overruns:0 frame:0 TX packets:37256 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:27886372 (26.5 MiB) TX bytes:9283384 (8.8 MiB) Memory:fde60000-fde7ffff</p> <p>eth03 Link encap:Ethernet HWaddr 00:00:17:0E:A6:9F inet6 addr: fe80::200:17ff:fe0e:a69f/64 Scope:Link UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 RX packets:358342 errors:0 dropped:0 overruns:0 frame:0 TX packets:75045 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:35115211 (33.4 MiB) TX bytes:14585533 (13.9 MiB) Memory:fdfe0000-fdffffff</p> <p>eth03.1 Link encap:Ethernet HWaddr 00:00:17:0E:A6:9F inet addr:192.168.2.100 Bcast:192.168.2.255 Mask:255.255.255.0 inet6 addr: fe80::200:17ff:fe0e:a69f/64 Scope:Link UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 RX packets:53064 errors:0 dropped:0 overruns:0 frame:0 TX packets:48451 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:0 RX bytes:6687487 (6.3 MiB) TX bytes:12384253 (11.8 MiB)</p> <p>eth03.3 Link encap:Ethernet HWaddr 00:00:17:0E:A6:9F inet addr:192.168.121.100 Bcast:192.168.121.255 Mask:255.255.255.0 inet6 addr: fe80::200:17ff:fe0e:a69f/64 Scope:Link UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 RX packets:305278 errors:0 dropped:0 overruns:0 frame:0 TX packets:26424 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:0 RX bytes:23410936 (22.3 MiB) TX bytes:2183472 (2.0 MiB)</p> <p>eth04 Link encap:Ethernet HWaddr 00:00:17:0E:A6:9E inet addr:192.168.1.1 Bcast:192.168.1.255 Mask:255.255.255.0 UP BROADCAST MULTICAST MTU:1500 Metric:1 RX packets:0 errors:0 dropped:0 overruns:0 frame:0 TX packets:0 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:0 (0.0 b) TX bytes:0 (0.0 b) Memory:fdf60000-fdf7ffff</p> <p>lo Link encap:Local Loopback inet addr:127.0.0.1 Mask:255.0.0.0 inet6 addr: ::1/128 Scope:Host UP LOOPBACK RUNNING MTU:65536 Metric:1 RX packets:2198539 errors:0 dropped:0 overruns:0 frame:0 TX packets:2198539 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:0 RX bytes:191477466 (182.6 MiB) TX bytes:191477466 (182.6 MiB)</p>
7. <input type="checkbox"/>	MPS X: Record EuiDB settings	<pre>\$ uīEdīt "EPAP_B_INCR_DNLOAD_BACKUP_MCASTADDR" is set to "225.10.81.15" "LNP_ENABLED" is set to "FALSE" "EPAP_A_RTDB_DEBUG_LEVEL" is set to "50" "EPAP_B_GS_BANNER_PORT" is set to "8473" "EPAP_A_HSDOWNLOAD" is set to "OFF" "EPAP_A_GS_BANNER_PORT" is set to "8473" "PDBA_STATS_ENABLED" is set to "OFF"</pre>

		<p>"EPAP_DATA_SPLIT" is set to "OFF"</p> <p>"max_passwd_age" is set to "180"</p> <p>"new_user_default_groups" is set to "readonly"</p> <p>"max_concurrent_user_logins" is set to "1"</p> <p>"max_concurrent_logins" is set to "20"</p> <p>"PROVISIONABLE_MPS" is set to "YES"</p> <p>"PDBA_LOCAL_NAME_V6" is set to "0000:0000:0000:0000:0000:0000:0000:0000"</p> <p>"passwd_expiry_warn_days" is set to "7"</p> <p>"HTTP_ENABLED" is set to "No"</p> <p>"SNMP_ALARM_FEED" is set to "ON"</p> <p>"session_idle_timeout" is set to "10"</p> <p>"EPAP_A_STANDBY" is set to "FALSE"</p> <p>"EPAP_BINLOGS_THRESHOLD" is set to "80"</p> <p>"DSM_MIN_MEM_SIZE" is set to "3235"</p> <p>"SLOG_CAPACITY_ALARMS_ENABLED" is set to "TRUE"</p> <p>"EPAP_B_FULL_DNLOAD_BACKUP_MCASTADDR" is set to "225.10.81.17"</p> <p>"EPAP_A_NAME" is set to "Natal-A"</p> <p>"EPAP_B_PROV_NETWORK_IP_ADDRESS" is set to "10.75.141.48"</p> <p>"EPAP_B_SLOG" is set to "YES"</p> <p>"EPAP_B_STANDBY" is set to "FALSE"</p> <p>"MAX_RECORD_DELAY" is set to "15"</p> <p>"PDBA_IMSI_PREFIX" is set to ""</p> <p>"EPAP_A_MAINT_DEBUG_LEVEL" is set to "0"</p> <p>"EPAP_STATUS_B" is set to "ACTIVE"</p> <p>"logon_msg" is set to "NOTICE: This is a private computer system. Unauthorized access or use may lead to prosecution."</p> <p>"SELF_HEAL_DN_FEATURE" is set to "OFF"</p> <p>"EPAP_B_SUEXEC_HTTP_PORT" is set to "8001"</p> <p>"EPAP_A_DSM_MAIN_NETWORK_ADDRESS" is set to "192.168.120.100"</p> <p>"EPAP_QS_ALARMS_ENABLED" is set to "ON"</p> <p>"EPAP_B_INCR_DNLOAD_MAIN_MCASTADDR" is set to "225.10.80.14"</p> <p>"PDB_RTDB_SYNC" is set to "YES"</p> <p>"EPAP_B_MAINT_DEBUG_LEVEL" is set to "0"</p> <p>"PROVISIONING_NETWORK_NETMASK" is set to "255.255.255.128"</p> <p>"EPAP_A_SLOG" is set to "YES"</p> <p>"EPAP_B_HTTP_PORT" is set to "80"</p> <p>"PDBA_ERROR_LOG_DEBUG_LEVEL" is set to "20"</p> <p>"EPAP_A_SIMPLEX_MODE" is set to "FALSE"</p> <p>"EPAP_A_TOPNODE_MAIN_MCASTADDR" is set to "225.10.80.18"</p> <p>"EPAP_A_PROV_NETWORK_IP_ADDRESS" is set to "10.75.141.47"</p> <p>"PDBA_REMOTE_B_NAME" is set to "0.0.0.0"</p> <p>"EPAP_IP_VERSION" is set to "IPv4"</p> <p>"EPAP_STATUS_A" is set to "UP"</p> <p>"euidb_version" is set to "3"</p> <p>"PDB_CAP_LIMIT_ENABLED" is set to "OFF"</p> <p>"EPAP_B_SUEXEC_HTTPS_PORT" is set to "8002"</p> <p>"EPAP_A_HTTP_PORT" is set to "80"</p> <p>"EPAP_A_DSM_BACKUP_NETWORK_ADDRESS" is set to "192.168.121.100"</p> <p>"UI_IP_AUTHORIZATION_ENABLED" is set to "FALSE"</p> <p>"EPAP_B_NAME" is set to "Natal-B"</p> <p>"EPAP_B_HSAUDIT" is set to "ON"</p> <p>"PDBA_MAX_COMMAND_RECORDS" is set to "1000000"</p> <p>"EPAP_A_INCR_DNLOAD_BACKUP_MCASTADDR" is set to "225.10.81.11"</p> <p>"EPAP_A_SYNCH_NETWORK_ADDRESS" is set to "192.168.2.100"</p> <p>"apache_403_error_message" is set to "NOTICE: This workstation is not authorized to access the GUI."</p>
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		<p>"EPAP_A_SUEXEC_HTTP_PORT" is set to "8001" "EPAP_B_SYNCH_NETWORK_ADDRESS" is set to "192.168.2.200" "EPAP_B_HSDOWNLOAD" is set to "OFF" "min_passwd_len" is set to "8" "max_account_inactivity" is set to "0" "EAGLE_ALARM_FEED" is set to "ON" "EPAP_A_RTDB_AUDIT" is set to "ON" "PDBA_GPORT_INSTALLED" is set to "FALSE" "EPAP_RELEASE" is set to "0.593" "MATE_MPS_HTTPS_PORT" is set to "443" "PDBA_REMOTE_NAME" is set to "0.0.0.0" "PDBA_DEBUG_LOG_DEBUG_LEVEL" is set to "20" "EPAP_A_SUEXEC_HTTPS_PORT" is set to "8002" "EPAP_QS_THRESHOLD" is set to "200" "EPAP_A_HSAUDIT" is set to "ON" "EPAP_A_HTTPS_PORT" is set to "443" "PDBA_DN_PREFIX" is set to "" "EPAP_A_TOPNODE_BACKUP_MCASTADDR" is set to "225.10.81.19" "PDBA_GFLEX_INSTALLED" is set to "FALSE" "EPAP_A_FULL_DNLOAD_BACKUP_MCASTADDR" is set to "225.10.81.13" "PROVISIONING_NETWORK_PREFIX_V6" is set to "" "MATE_MPS_HTTP_PORT" is set to "80" "EPAP_B_TOPNODE_MAIN_MCASTADDR" is set to "225.10.80.20" "PDBI_PORT" is set to "5873" "passwd_reuse_limit" is set to "5" "RTDB_CLIENT_DB_DIFF" is set to "10000" "apache_403_error_message_default" is set to "NOTICE: This workstation is not authorized to access the GUI." "EPAP_B_SIMPLEX_MODE" is set to "FALSE" "PDBA_INP_INSTALLED" is set to "FALSE" "ALTERNATE_PDBA_ALLOWED" is set to "YES" "EPAP_B_RTDB_DEBUG_LEVEL" is set to "50" "HTTPS_ENABLED" is set to "Yes" "EPAP_A_INCR_DNLOAD_MAIN_MCASTADDR" is set to "225.10.80.10" "EPAP_B_FULL_DNLOAD_MAIN_MCASTADDR" is set to "225.10.80.16" "EPAP_B_TOPNODE_BACKUP_MCASTADDR" is set to "225.10.81.21" "EIR_BLK_EXPANSION_100K" is set to "OFF" "PROVISIONING_NETWORK_DEFAULT_ROUTER" is set to "10.75.141.1" "RTDB_HOMING_POLICY" is set to "PDBA_LOCAL_NAME" "PDBA_MAX_COMMAND_DELAY" is set to "-1" "EPAP_B_RTDB_AUDIT" is set to "ON" "PDBA_LOCAL_NAME" is set to "10.75.141.47" "PDBA_COMMAND_LOG_DEBUG_LEVEL" is set to "20" "EPAP_B_DSM_MAIN_NETWORK_ADDRESS" is set to "192.168.120.200" "EPAP_B_DSM_BACKUP_NETWORK_ADDRESS" is set to "192.168.121.200" "EPAP_B_HTTPS_PORT" is set to "443" "EPAP_A_FULL_DNLOAD_MAIN_MCASTADDR" is set to "225.10.80.12" "DN_BLK_EXPANSION_200K" is set to "OFF" "max_failed_logins" is set to "3" "PDB_SUB_CAPACITY" is set to "255000000"</p>
8. <input type="checkbox"/>	<p>MPS X: Verify the DB structure</p>	<pre>\$ uīEdit grep PROVISIONABLE "PROVISIONABLE_MPS" is set to YES If provisionable_mps is set to yes then verify PDB database structure else skip this step from non-prov setups. \$ grep ibdata /etc/my.cnf</pre>

		<pre>innodb_data_file_path = ibdata1:2G;ibdata2:2G;ibdata3:2G;ibdata4:2G;ibdata5:2G;ibdata6:2G;ibdata7:2G; ibdata8:2G;ibdata9:2G;ibdata10:2G;ibdata11:2G;ibdata12:2G;ibdata13:2G;ibdata 14:2G;ibdata15:2G;ibdata16:2G;ibdata17:2G;ibdata18:2G;ibdata19:2G;ibdata20: 2G;ibdata21:2G;ibdata22:2G;ibdata23:2G;ibdata24:2G;ibdata25:2G;ibdata26:2G; ibdata27:2G;ibdata28:2G;ibdata29:2G;ibdata30:2G;ibdata31:2G;ibdata32:2G;ibda ta33:2G;ibdata34:2G;ibdata35:2G;ibdata36:2G;ibdata37:2G;ibdata38:2G;ibdata39 :2G;ibdata40:2G;ibdata41:2G;ibdata42:2G;ibdata43:2G;ibdata44:2G;ibdata45:2G ;ibdata46:2G;ibdata47:2G;ibdata48:2G;ibdata49:2G;ibdata50:2G NOTE: If Disk size is 480G there should be 50 ibdata files If Disk size is 300G there should be 25 ibdata files</pre>
9. <input type="checkbox"/>	<p>MPS X: Verify ibdata files: Number of ibdata files in output of pdbInfo should match the output of above step</p>	<pre>\$ pdbInfo backupdate:1497872303 birthdate:1244822987 datafiles:ibdata1:2G,ibdata2:2G,ibdata3:2G,ibdata4:2G,ibdata5:2G,ibdata6:2G,ib data7:2G,ibdata8:2G,ibdata9:2G,ibdata10:2G,ibdata11:2G,ibdata12:2G,ibdata13: 2G,ibdata14:2G,ibdata15:2G,ibdata16:2G,ibdata17:2G,ibdata18:2G,ibdata19:2G,i bdata20:2G,ibdata21:2G,ibdata22:2G,ibdata23:2G,ibdata24:2G,ibdata25:2G,ibdat a26:2G,ibdata27:2G,ibdata28:2G,ibdata29:2G,ibdata30:2G,ibdata31:2G,ibdata32: 2G,ibdata33:2G,ibdata34:2G,ibdata35:2G,ibdata36:2G,ibdata37:2G,ibdata38:2G,i bdata39:2G,ibdata40:2G,ibdata41:2G,ibdata42:2G,ibdata43:2G,ibdata44:2G,ibdat a45:2G,ibdata46:2G,ibdata47:2G,ibdata48:2G,ibdata49:2G,ibdata50:2G</pre>
10. <input type="checkbox"/>	<p>MPS X: Verify operational status of EPAP software</p>	<pre>\$ service Epap status ~~ /etc/init.d/Epap status ~~ ----- process maint is running. process prov is running. process provRcvr is running. process provRMTP is running. process rtdb is running. process topnode is running. process eirlog is running. process eaglelog is running. process epapsmdbmnr is running. process epapSnmpAgent is running. process epapSnmpAL is running. process epapSnmpHBS is running. ----- EPAP application is running.</pre>
11. <input type="checkbox"/>	<p>MPS X: Verify operational status of PDBA software</p>	<pre>\$ uifedit grep PROVISIONABLE "PROVISIONABLE_MPS" is set to "YES" If provisionable_mps is set to yes then verify PDBA status \$ sudo service Pdba status ~~ /etc/init.d/Pdba status ~~ PDBA application is running.</pre>
12. <input type="checkbox"/>	<p>MPS X: Verify HA status</p>	<pre>\$ hastatus; ssh mate hastatus Note:If Proxy feature is disabled: UNINITIALIZED UNINITIALIZED Note: If Proxy feature is enabled, one server Active and one server Standby: ACTIVE STANDBY</pre>
13. <input type="checkbox"/>	<p>MPS X: Record cron file configuration</p>	<pre>\$ cat /etc/cron.d/TS.EXAP # # Task Scheduler cron file for EXAP #</pre>

		<pre># WARNING: This file is automatically generated. Do not manually edit it. # SHELL=/bin/bash MAILTO="" # BEGTTYPE=EXAPCORE # ID=PIC, Action="/usr/TKLC/epap/bin/pdbiImportCheck", Sched="minutely,5" */5 * * * * epapdev /usr/TKLC/epap/bin/pdbiImportCheck # ID=EFTP, Action="/usr/TKLC/epap/bin/eirSftp.pl", Sched="minutely,5" */5 * * * * epapdev /usr/TKLC/epap/bin/eirSftp.pl # ID=EFM, Action="/usr/TKLC/epap/bin/eirFileMgr.sh", Sched="hourly,1,10" 10 * * * * epapdev /usr/TKLC/epap/bin/eirFileMgr.sh # ID=PBL, Action="/usr/TKLC/appl/bin/pruneBinaryLogs", Sched="minutely,10" */10 * * * * epapdev /usr/TKLC/appl/bin/pruneBinaryLogs # ID=PDSH, Action="/usr/TKLC/appl/bin/pdbiSsh.pl", Sched="minutely,5" */5 * * * * epapdev /usr/TKLC/appl/bin/pdbiSsh.pl # ID=MONBAN, Action="/usr/TKLC/appl/bin/monitorBanner.pl", Sched="hourly,1,15" 15 * * * * epapdev /usr/TKLC/appl/bin/monitorBanner.pl # ID=RTDBCS, Action="/usr/TKLC/appl/bin/getRTDBClientStatus.pl", Sched="minutely,15" */15 * * * * epapdev /usr/TKLC/appl/bin/getRTDBClientStatus.pl # ENDTYPE # BEGTTYPE=AUTO_ON_NON_PROV # ID=AONP, Action="/usr/TKLC/epap/bin/autoBackupNonProv", Sched="minutely,5" */5 * * * * epapdev /usr/TKLC/epap/bin/autoBackupNonProv # ENDTYPE</pre>
14. <input type="checkbox"/>	<p>MPS X: Record /etc/passwd file</p>	<pre>\$ cat /etc/passwd root:x:0:0:root:/root:/bin/bash bin:x:1:1:bin:/bin:/sbin/nologin daemon:x:2:2:daemon:/sbin:/sbin/nologin adm:x:3:4:adm:/var/adm:/sbin/nologin lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin sync:x:5:0:sync:/sbin:/bin/sync shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown halt:x:7:0:halt:/sbin:/sbin/halt mail:x:8:12:mail:/var/spool/mail:/sbin/nologin uucp:x:10:14:uucp:/var/spool/uucp:/sbin/nologin operator:x:11:0:operator:/root:/sbin/nologin games:x:12:100:games:/usr/games:/sbin/nologin gopher:x:13:30:gopher:/var/gopher:/sbin/nologin ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin nobody:x:99:99:Nobody:./:/sbin/nologin dbus:x:81:81:System message bus:./:/sbin/nologin rpc:x:32:32:Rpcbind Daemon:/var/cache/rpcbind:/sbin/nologin admusr:x:4996:4996:Platform remote admin user:/home/admusr:/bin/bash nscd:x:28:28:NSCD Daemon:./:/sbin/nologin vcsa:x:69:69:virtual console memory owner:/dev:/sbin/nologin apache:x:48:48:Apache:/var/www:/sbin/nologin sshd:x:74:74:Privilege-separated SSH:/var/empty/ssh:/sbin/nologin ntp:x:38:38:./etc/ntp:/sbin/nologin saslauth:x:499:76:Saslauthd user:/var/empty/saslauth:/sbin/nologin postfix:x:89:89:./var/spool/postfix:/sbin/nologin platcfg:x:5000:5000:Platform Configuration User:/home/platcfg:/usr/TKLC/plat/bin/platcfg</pre>

		<pre> tpdProvd:x:5010:5010:TPD Provisioning Daemon:/home/tpdProvd:/usr/bin/false syscheck:x:71:71:System Health Check User:/home/syscheck:/bin/false hids:x:4995:4995:HIDS admin user:/home/hids:/sbin/nologin dhcpd:x:177:177:DHCP server:/:/sbin/nologin nslcd:x:65:55:LDAP Client User:/:/sbin/nologin rtkit:x:498:450:RealtimeKit:/proc:/sbin/nologin rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin nfsnobody:x:65534:65534:Anonymous NFS User:/var/lib/nfs:/sbin/nologin named:x:25:25:Named:/var/named:/sbin/nologin tcpdump:x:72:72:::/sbin/nologin mysql:x:27:27:MySQL Server:/var/TKLC/epap/db:/bin/false epapdev:x:3000:6001:epapdev user:/home/epapall:/bin/bash epapconfig:x:3002:6001:epapconfig user:/home/epapconfig:/home/epapconfig/runrunUI appuser:x:3004:6002:appuser user for viewing log files from the GUI:/var/TKLC/epap/logs:/bin/rbash epapssh:x:3006:6001:epapssh user:/home/epapssh:/sbin/nologin </pre>
15. <input type="checkbox"/>	<p>MPS X: Backup the EuiDB</p>	<pre> \$ sudo su - epapconfig MPS Side A: hostname: Natal-A hostid: 4b0a2f8d Platform Version: 6.1.4-7.4.0.0_88.37.0 Software Version: EPAP 162.0.14-0.59311 Mon Apr 24 11:47:08 EDT 2017 /----EPAP Configuration Menu-----\ /-----\ 1 Display Configuration --- ----- 2 Configure Network Interfaces Menu --- ----- 3 Set Time Zone --- ----- 4 Exchange Secure Shell Keys --- ----- 5 Change Password --- ----- 6 Platform Menu --- ----- 7 Configure NTP Server --- ----- 8 PDB Configuration Menu --- ----- 9 Security --- ----- 10 SNMP Configuration --- ----- 11 Configure Alarm Feed --- ----- 12 Configure Query Server --- ----- 13 Configure Query Server Alarm Feed --- ----- 14 Configure SNMP Agent Community --- ----- 15 Mate Disaster Recovery --- ----- e Exit \-----/ </pre>

		<p>Enter Choice: 6</p> <p>MPS Side A: hostname: Natal-A hostid: 4b0a2f8d Platform Version: 6.1.4-7.4.0.0_88.37.0 Software Version: EPAP 162.0.14-0.59311 Mon Apr 24 11:48:07 EDT 2017</p> <pre> /-----EPAP Platform Menu-\ /-----\ 1 Initiate Upgrade --- ----- 2 Reboot MPS --- ----- 3 MySQL Backup --- ----- 4 RTDB Backup --- ----- 5 PDB Backup --- ----- e Exit \-----/ </pre> <p>Enter Choice: 3</p> <p>Are you sure you want to back up the MySQL database on MPS A? [N]: Y</p> <p>Backing up the NPDB... NPDB Backed up Successfully to /var/TKLC/appl/free/npdbBackup_Natal-A_20170424114817.sql.gz</p>
16. <input type="checkbox"/>	MPS X: Verify backups are being taken properly	<pre>\$ ls -lrt /var/TKLC/epap/free/ -rw-rw-rw- 1 epapdev epap 6654607810 Apr 4 09:44 rtdbBackup_Arica-A_20170404094143_v5.295.bkp.tar.gz</pre> <p>RTDB and PDB backup should be present in the directory</p>
17. <input type="checkbox"/>	MPS X: Gather application log files	<pre>\$ sudo saveLogs -all Logs will be save in /var/TKLC/epap/free/ directory \$ ls -lrt /var/TKLC/epap/free/ -rw-r--r-- 1 epapdev epap 2934521 Apr 24 12:00 logsCapture_Natal-A_20170424115945.tar.bz2</pre>
18. <input type="checkbox"/>	MPS X: Gather system log files	<pre>\$ sudo /usr/TKLC/plat/sbin/saveLogs_plat Logs will be save in /tmp directory /tmp/saveLogs_plat.Natal-A.10689.tar.bz2</pre>
19. <input type="checkbox"/>	MPS X: Verify DB status	<pre>\$ sudo dbstattool DBSTATTOOL Platform=EPAP ----- pdb_birthdate = 1244822987 (Fri Jun 12 12:09:47 2009) pdb_level = 88341800 rtdb_pdb_birthdate = 1244822987 (Fri Jun 12 12:09:47 2009) rtdb_begin_dsm_level = 88341800 rtdb_end_dsm_level = 88341800 rtdb_dsm_birthdate = 1449378182 (Sun Dec 6 00:03:02 2015) rtdb_dsm_status = 1 rtdb_load_state = 3 eagle_fmt_pdb_birthdate = 3381736696 (eagle format - be careful!) eagle_fmt_rtdb_pdb_birthdate = 929156114 (eagle format - be careful!) eagle_fmt_rtdb_dsm_birthdate = 1627424287 (eagle format - be careful!) pdba_last_upd_ipaddr = 0</pre>

pdba_last_upd_timestamp = 0 (Wed Dec 31 19:00:00 1969)
 dbstattool_pad1 = 0
 dbstattool_pad2 = 0
 dbstattool_pad3 = 0
 dbstattool_pad4 = 0
 dbstattool_timestamp = 0 (Wed Dec 31 19:00:00 1969)
 rtdb_version = 0

Note: Record RTDB and PDBA database levels. If they are not the same call Oracle Support.

MPS X:
 Verify RTDB status from GUI
 From GUI select "RTDB->View RTDB status"

Verify RTDB and PDB Level are same and DB status is Coherent

20.

A View RTDB Status

Local RTDB Status

DB Status: Coherent	Audit Enabled: Yes
RTDB Level: 88341800	RTDB Birthday: 12/06/2015 05:03:02 GMT
PDB Level: 88341800	PDB Birthday: 06/12/2009 16:09:47 GMT
Counts: DMSI=239999999, DN=239875032, DN Blocks=187002, NE=49990, ASD=1000000	
Tables: DMSI=16, DN=16, IMEI=16, ASD=16	
DB Size: 15325 M	MinDsmSz: 14336 MB (1215 on tdc9010801)
Reload: None	

Mate RTDB Status

DB Status: Coherent	Audit Enabled: Yes
RTDB Level: 88341800	RTDB Birthday: 12/06/2015 05:03:02 GMT
PDB Level: 88341800	PDB Birthday: 06/12/2009 16:09:47 GMT
Counts: DMSI=239999999, DN=239875032, DN Blocks=187002, NE=49990, ASD=1000000	
Tables: DMSI=16, DN=16, IMEI=16, ASD=16	
DB Size: 15325 M	MinDsmSz: 14336 MB (1215 on tdc9010801)
Reload: None	

RTDB Configuration

Homing Policy: Prefer PDBA @ 10.75.141.35 (PDBA_LOCAL_NAME), Alternate allowed
Min DSM Size: 14336 MB
Max DB Size: 14336 MB

PDBA@10.75.141.35 Status

Status: ACTIVE	Version: 1.0
Level: 88341800	Birthday: 06/12/2009 16:09:47 GMT
DN Prefix:	DMSI Prefix:
Counts: DMSI=239999999, DN=239875032, DN Blocks=187002, NE=49990, IMEI=48000000, IMEI Blocks=100000, ASD=1000000, DN_DN=21820227, DNB_DN=3	
RTDB Clients: Address	Level

MPS X:
 Verify DMS DB levels matched and DB status is coherent on all STP cards
 From EPAP GUI Expand PDBA Menu -> Expand DSM Info and select PDBA DSM List

21.

A PDBA DSM Info List


This screen retrieves all of the information that the PDBA has on all of the DSMs in the network. Two fields are provided to filter the list of DSMs returned. A third field is provided to limit the amount of information returned for each DSM.

CLLI filter:

Card Loc filter:

Status filter:

Tue April 25 2017 09:14:12 EDT

		<p> SUCCESS: DSM list successfully retrieved.</p> <table border="1"> <tr><td>tklc9010801</td><td>3215</td><td>COHERENT</td><td>88341800</td></tr> <tr><td>tklc9010801</td><td>3217</td><td>COHERENT</td><td>88341800</td></tr> <tr><td>tklc9010801</td><td>3315</td><td>COHERENT</td><td>88341800</td></tr> <tr><td>tklc9010801</td><td>3317</td><td>COHERENT</td><td>88341800</td></tr> <tr><td>tklc9010801</td><td>4107</td><td>COHERENT</td><td>88341800</td></tr> <tr><td>tklc9010801</td><td>4111</td><td>COHERENT</td><td>88341800</td></tr> <tr><td>tklc9010801</td><td>4207</td><td>COHERENT</td><td>88341800</td></tr> <tr><td>tklc9010801</td><td>4211</td><td>COHERENT</td><td>88341800</td></tr> <tr><td>tklc9010801</td><td>4305</td><td>COHERENT</td><td>88341800</td></tr> <tr><td>tklc9010801</td><td>5105</td><td>COHERENT</td><td>88341800</td></tr> <tr><td>tklc9010801</td><td>5215</td><td>COHERENT</td><td>88341800</td></tr> <tr><td>tklc9010801</td><td>5217</td><td>COHERENT</td><td>88341800</td></tr> </table> <p>All cards should be coherent.</p>	tklc9010801	3215	COHERENT	88341800	tklc9010801	3217	COHERENT	88341800	tklc9010801	3315	COHERENT	88341800	tklc9010801	3317	COHERENT	88341800	tklc9010801	4107	COHERENT	88341800	tklc9010801	4111	COHERENT	88341800	tklc9010801	4207	COHERENT	88341800	tklc9010801	4211	COHERENT	88341800	tklc9010801	4305	COHERENT	88341800	tklc9010801	5105	COHERENT	88341800	tklc9010801	5215	COHERENT	88341800	tklc9010801	5217	COHERENT	88341800
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tklc9010801	5217	COHERENT	88341800																																															
22. <input type="checkbox"/>	<p>MPS X: Verify DB status on DSM cards and that their provisioning system is taking updates</p>	<p>Login to EAGLE and run command: rept-stat-db:display=all</p> <p>Command Accepted - Processing</p> <p>tklc9010801 17-04-25 14:49:04 EST EAGLE 46.5.0.0.0-70.29.0</p> <p>rept-stat-db:display=all</p> <p>Command entered at terminal #2.</p> <p>;</p> <p>tklc9010801 17-04-25 14:49:04 EST EAGLE 46.5.0.0.0-70.29.0</p> <p>DATABASE STATUS: >> OK <<</p> <table border="0"> <tr> <td>TDM 1114 (ACTV)</td> <td>TDM 1116 (STDBY)</td> </tr> <tr> <td>C LEVEL</td> <td>TIME LAST BACKUP</td> <td>C LEVEL</td> <td>TIME LAST BACKUP</td> </tr> </table> <p>-----</p> <p>FD BKUP Y 998220 17-04-19 03:13:08 EST Y 998220 17-04-19 03:13:08 EST</p> <table border="0"> <tr> <td>FD CRNT Y 999485</td> <td>Y 999485</td> </tr> <tr> <td>GTT DB 193</td> <td>193</td> </tr> <tr> <td>MCAP 1113</td> <td>MCAP 1115</td> </tr> </table> <p>-----</p> <p>RD BKUP - - - - -</p> <p>USB BKP - - - - -</p>	TDM 1114 (ACTV)	TDM 1116 (STDBY)	C LEVEL	TIME LAST BACKUP	C LEVEL	TIME LAST BACKUP	FD CRNT Y 999485	Y 999485	GTT DB 193	193	MCAP 1113	MCAP 1115																																				
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GTT DB 193	193																																																	
MCAP 1113	MCAP 1115																																																	

CARD/APPL	LOC	C	T	LEVEL	TIME LAST UPDATE	EXCEPTION
DEIRHC	3215	Y	N	999485	17-04-25 14:22:42	-
DEIRHC	3217	Y	N	999485	17-04-25 14:22:42	-
DEIRHC	3315	Y	N	999485	17-04-25 14:22:42	-
DEIRHC	3317	Y	N	999485	17-04-25 14:22:42	-
SIPHC	4107	Y	N	999485	17-04-25 14:22:42	-
SIPHC	4111	Y	N	999485	17-04-25 14:22:42	-
SIPHC	4207	Y	N	999485	17-04-25 14:22:42	-
SIPHC	4211	Y	N	999485	17-04-25 14:22:42	-
SIPHC	4305	Y	N	999485	17-04-25 14:22:42	-
SIPHC	5105	Y	N	999485	17-04-25 14:22:42	-
SIPHC	5215	Y	N	999485	17-04-25 14:22:42	-
SIPHC	5217	Y	N	999485	17-04-25 14:22:42	-
EPAP A (ACTV)						
C	BIRTHDATE	LEVEL	EXCEPTION			
PDB	12-01-20 18:14:18	88341800	-			
RTDB	Y 09-06-12 12:09:46	88341800	-			
RTDB-EAGLE	15-12-06 00:03:02	88341800	-			
EPAP B (STDBY)						
C	BIRTHDATE	LEVEL	EXCEPTION			
PDB	00-00-00 00:00:00	0	-			
RTDB	Y 00-00-00 00:00:00	0	-			
RTDB-EAGLE	00-00-00 00:00:00	0	-			
EAGLE RTDB REPORT						
CARD/APPL	LOC	C	BIRTHDATE	LEVEL	EXCEPTION	IN-SRVC

		DEIRHC 3315 Y 15-12-06 00:03:02 88341800 - 0d 6h 46m DEIRHC 3317 Y 15-12-06 00:03:02 88341800 - 0d 6h 46m VSCCP 4101 Y 17-04-10 13:12:28 0 - 0d 0h 11m SIPHC 4107 Y 15-12-06 00:03:02 88341800 - 0d 3h 16m SIPHC 4111 Y 15-12-06 00:03:02 88341800 - 0d 3h 16m SIPHC 4207 Y 15-12-06 00:03:02 88341800 - 0d 3h 16m SIPHC 4211 Y 15-12-06 00:03:02 88341800 - 0d 3h 16m SIPHC 4305 Y 15-12-06 00:03:02 88341800 - 0d 3h 16m SIPHC 5105 Y 15-12-06 00:03:02 88341800 - 0d 3h 16m SIPHC 5215 Y 15-12-06 00:03:02 88341800 - 0d 3h 16m SIPHC 5217 Y 15-12-06 00:03:02 88341800 - 0d 3h 16m
23. <input type="checkbox"/>	MPS X: Verify alarms present on STP cards	Run following command on EAGLE to check alarms rept-stat-alm Command Accepted - Processing tklc9010801 17-04-25 14:50:08 EST EAGLE 46.5.0.0.0-70.29.0 rept-stat-alm Command entered at terminal #2. ; tklc9010801 17-04-25 14:50:09 EST EAGLE 46.5.0.0.0-70.29.0 ALARM TRANSFER= RMC ALARM MODE CRIT= AUDIBLE MAJR= AUDIBLE MINR= AUDIBLE ALARM FRAME 1 CRIT= 136 MAJR= 916 MINR= 18 ALARM FRAME 2 CRIT= 0 MAJR= 136 MINR= 1 ALARM FRAME 3 CRIT= 4 MAJR= 217 MINR= 1 ALARM FRAME 4 CRIT= 0 MAJR= 181 MINR= 4 ALARM FRAME 5 CRIT= 0 MAJR= 58 MINR= 5 ALARM FRAME 6 CRIT= 0 MAJR= 15 MINR= 5 PERM. INH. ALARMS CRIT= 0 MAJR= 0 MINR= 0 TEMP. INH. ALARMS CRIT= 0 MAJR= 0 MINR= 0 TIMED INH. ALARMS CRIT= 0 MAJR= 0 MINR= 0 ACTIVE ALARMS CRIT= 140 MAJR=1523 MINR= 34

		TOTAL ALARMS CRIT= 140 MAJR=1523 MINR= 34 Command Completed.
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5 MY ORACLE SUPPORT

MOS (<https://support.oracle.com>) is your initial point of contact for all product support and training needs. A representative at Customer Access Support (CAS) can assist you with MOS registration.

Call the CAS main number at 1-800-223-1711 (toll-free in the US), or call the Oracle Support hotline for your local country from the list at <http://www.oracle.com/us/support/contact/index.html>. When calling, make the selections in the sequence shown below on the Support telephone menu:

1. Select 2 for New Service Request
2. Select 3 for Hardware, Networking and Solaris Operating System Support
3. Select one of the following options:
 - For Technical issues such as creating a new Service Request (SR), Select 1
 - For Non-technical issues such as registration or assistance with MOS, Select 2

You will be connected to a live agent who can assist you with MOS registration and opening a support ticket.

MOS is available 24 hours a day, 7 days a week, 365 days a year.