Oracle® Communications

EAGLE LNP Application Processor: System Health Check Guide



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Oracle Communications EAGLE LNP Application Processor: System Health Check Guide, Release 11.1

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What's New in this Guide

Release 11.1 - G63371-01, October 2026

There are no new updates in this guide for this release.

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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 ELAP release 10.1 or higher.

This document is intended for EAGLE engineering, integration, documentation, technical services, and any craft person who has completed ELAP training and is familiar with ELAP 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 1-1 Acronyms

Acronym/Term	Definition
Term	Definition
OC-LSMS	Oracle Communication Local Service Management System
MPS	Multi-Purpose Server
OC-ELAP	Oracle Communications EAGLE LNP Application Processor
RTDB	Realtime Database
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:

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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 1 B 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 +st

Each command that the technician is to enter is in 9 point Lu

Output displayed only f

Table 1-2 Example of a step that indicates the Server on which it needs to be run.

1A ■	1B ■	MPS 1A: Verify date	$ date Mon Jul 17 11:48:24 EDT 2017

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2

Health Check Overview

An ELAP system is a pair of MPS servers (an A and a B node). One MPS server running ELAP is referred to as ELAP A, while the mate MPS server running ELAP is referred to as ELAP B. The two MPS servers running ELAP at each EAGLE location have exactly the same software installed. The main functions of ELAP are:

- Accept and store data provisioned by the customer from LSMS over the provisioning network.
- Update and reload provisioning data to the **EAGLE Service Module** cards.

Therefore, a mated pair of ELAP systems consists of an A and a B node. This document describes how to conduct the health check of the ELAP software on one system, that system consisting of two MPS servers (A and B).

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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**
elapconfig	
elapdev	
admusr	

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4 ELAP Health Check

4.1 System Status

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

STEP #	Steps To Be Completed	Expected output/command to be executed
1.	**MPSX:** Login as admusr	`login: admusr password: <admusr_password>`
2.	**MPSX:** Record the TPD version	`$ getPlatRev` `7.4.0.0.0_88.37.0`

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STEP #	Steps To Be Completed	Expected output/command to be executed
3.	**MPSX:** Verify that the time difference between servers is 30 seconds or less.	$ sudo date ; sudo clock Mon Jul 17 11:48:24 EDT 2017 Mon Jul 17 2017 11:48:25 AM EDT -0.031459 seconds

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STEP #	Steps To Be Completed	Expected output/command to be executed
4.	**MPSX:** Verify that the chrony server is in sync. Delay should be less than 30 seconds.	# chronyc ntpdata Remote address : 10.75.124.247 (0A4B7CF7) Remote port : 123 Local address : 10.75.141.70 (0A4B8D46) Leap status : Normal Version : 4 Mode : Server Stratum : 3 Poll interval : 6 (64 seconds) Precision : -24 (0.000000060 seconds) Root delay : 0.065979 seconds Root dispersion : 0.111664 seconds Reference ID : 0A4B0008 () Reference time : Thu Nov 23 05:47:18 2023 Offset : +0.000003993 seconds Peer delay : 0.000072944 seconds Peer dispersion : 0.000000093 seconds Response time : 0.000078588 seconds Jitter asymmetry: +0.00 NTP tests : 111 111 1111 Interleaved : No Authenticated : No TX timestamping : Kernel RX timestamping : Kernel Total TX : 831 Total RX : 831 Total valid RX : 831

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STEP #	Steps To Be Completed	Expected output/command to be executed

5.	**MPSX:** Record the last reboot occurred	`$ uptime`
		`04:54:34 up 7 days,  4:31,  2 users,  load average: 0.60, 0.53, 0.46`
		
		Note
		A server reboot is recommended after every 180 days.

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STEP #	Steps To Be Completed	Expected output/command to be executed
6.	**MPSX:** Record the ELAP release number from rpm query.	[root@ITHACA-A ~]# rpm -qi TKLCelap Name : TKLCelap Version : 5.0.66 Release : 11.0.0.0.0_110.4.0 Architecture: x86_64 Install Date: Tue 12 Dec 2023 02:56:56 AM EST Group : Development/Build Size : 197639401 License : TEKELEC 2018 Signature : (none) Source RPM : TKLCelap-5.0.66-11.0.0.0.0_110.4.0.src.rpm Build Date : Thu 23 Nov 2023 07:53:49 AM EST Build Host : coach-14.tekelec.com Relocations : (not relocatable) Packager : <@tekelec.com> Vendor : Tekelec URL : http://www.tekelec.com/ Summary : Oracle Communications ELAP Package Description : This is the Oracle Communications EAGLE LNP Application Processor(ELAP) package. The package installs ELAP software. Eagle LNP Application Processor (ELAP) provides REALLY INCREDIBLE Database (RIDB). ELAP provides the LNP feature.$ rpm -qi TKLCelap

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STEP #	Steps To Be Completed	Expected output/command to be executed

7	**MPSX:** Verify system health check	`$ 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`
		
		Note
		In case one or more modules FAILED, rerun the command with verbose option like: `$ sudo syscheck -v` Record the output and contact My Oracle Support.

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STEP #	Steps To Be Completed	Expected output/command to be executed

8.	**MPSX:** Verify all current banner header messages	`$ manageBannerInfo -l`
		`There are currently no BannerInfo messages for this side in the database.`
		
		Note
		In case there are any alarms, record the alarms and contact My Oracle Support.

9.	**MPSX:** Retrieve alarm status from alarm manager.	`$ alarmMgr --alarmStatus`
		
		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:
		
		`$ 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`

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STEP #	Steps To Be Completed	Expected output/command to be executed
10.	**MPSX:** Record the last lines of alarm log.	$ tail -40 /var/TKLC/elap/logs/alarm.log 2017-07-09 01:55:54 - ********** Beginning Alarm Log ********** 2017-07-09 01:55:54 - |ELAP|HSOPD|S|Critical Application|1 2017-07-09 01:55:55 - |ELAP|SysCheck|S|Major Platform|10000000 2017-07-09 01:55:55 - |ELAP|SysCheck|S|Minor Platform|800000 2017-07-09 01:56:15 - |ELAP|SysCheck|S|Minor Platform|8000 2017-07-09 01:56:55 - |ELAP|SysCheck|C|Major Platform|10000000 2017-07-09 01:57:15 - |ELAP|SysCheck|C|Minor Platform|800000 2017-07-09 01:57:15 - |ELAP|SysCheck|C|Minor Platform|8000 2017-07-09 06:00:08 - |ELAP|SysCheck|S|Minor Application|400

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STEP #	Steps To Be Completed	Expected output/command to be executed

11	**MPSX:** Record the last lines of messages log.	`$ tail -40 /var/log/messages`
		
		`Jul 16 05:05:17 Floater-3 sudo: admusr : TTY=pts/0 ; PWD=/home/admusr ; USER=root ; COMMAND=/usr/TKLC/plat/bin/syscheck`

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STEP #	Steps To Be Completed	Expected output/command to be executed
12.	**MPSX:** Verify the attributes of volume groups If the output does not contain the “logical volume” sections, co	$ sudo vgdisplay -v Using volume group(s) on command line. Finding all volume groups. [root@ITHACA-A ~]# vgdisplay -v --- Volume group --- VG Name vgroot System ID Format lvm2 Metadata Areas 1 Metadata Sequence No 11 VG Access read/write VG Status resizable MAX LV 0 Cur LV 10 Open LV 10 Max PV 0 Cur PV 1 Act PV 1 VG Size 245.73 GiB PE Size 4.00 MiB Total PE 62908 Alloc PE / Size 62908 / 245.73 GiB Free PE / Size 0 / 0 VG UUID dgSFvl-mr7T-qv4v-bmSS-U2Qq-az3d-AlbBPp --- Logical volume --- LV Path /dev/vgroot/plat_var_tklc LV Name plat_var_tklc VG Name vgroot LV UUID xOHVMU-qlCY-iwgr-wm3D-36fP-6rWS-2bYRh8 LV Write Access read/write LV Creation host, time localhost.localdomain, 2023-12-12 00:56:27 -0500 LV Status available # open 1 LV Size 8.00 GiB Current LE 2048

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STEP #	Steps To Be Completed	Expected output/command to be executed
	ntact My Oracle Support so that corrective procedures can be scheduled to be performed.	Segments 1 Allocation inherit Read ahead sectors auto - currently set to 8192 Block device 253:3 --- Logical volume --- LV Path /dev/vgroot/plat_tmp LV Name plat_tmp VG Name vgroot LV UUID Hv1Nxs-fIZx-MIik-Sdxv-LkUn-qJCw-p8vmg1 LV Write Access read/write LV Creation host, time localhost.localdomain, 2023-12-12 00:56:28 -0500 LV Status available # open 1 LV Size 1.00 GiB Current LE 256 Segments 1 Allocation inherit Read ahead sectors auto - currently set to 8192 Block device 253:4 --- Logical volume --- LV Path /dev/vgroot/plat_usr LV Name plat_usr VG Name vgroot LV UUID Nw2rTL-x6U8-mtVP-RtN5-bFmK-Pens-BIvOQ3 LV Write Access read/write LV Creation host, time localhost.localdomain, 2023-12-12 00:56:29 -0500 LV Status available # open 1 LV Size 8.00 GiB Current LE 2048 Segments 1 Allocation inherit Read ahead sectors auto - currently set to 8192 Block device 253:2

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STEP #	Steps To Be Completed	Expected output/command to be executed
		--- Logical volume --- LV Path /dev/vgroot/plat_var LV Name plat_var VG Name vgroot LV UUID oeAWS4-fDgM-eBu4-ijdK-BcyE-1bZi-ejqnJ0 LV Write Access read/write LV Creation host, time localhost.localdomain, 2023-12-12 00:56:30 -0500 LV Status available # open 1 LV Size 2.00 GiB Current LE 512 Segments 1 Allocation inherit Read ahead sectors auto - currently set to 8192 Block device 253:5 --- Logical volume --- LV Path /dev/vgroot/plat_swap LV Name plat_swap VG Name vgroot LV UUID BUSMc0-zKpC-9566-yRO0-x2cL-68uK-PN1P6i LV Write Access read/write LV Creation host, time localhost.localdomain, 2023-12-12 00:56:31 -0500 LV Status available # open 2 LV Size 1.95 GiB Current LE 500 Segments 1 Allocation inherit Read ahead sectors auto - currently set to 8192 Block device 253:1 --- Logical volume --- LV Path /dev/vgroot/plat_root LV Name plat_root VG Name vgroot LV UUID uaWkoG-uXLg-Iwoh-kQEy-qedR-obJ5-wtBBuc LV Write Access read/write

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STEP #	Steps To Be Completed	Expected output/command to be executed
		LV Creation host, time localhost.localdomain, 2023-12-12 00:56:31 -0500 LV Status available # open 1 LV Size 2.00 GiB Current LE 512 Segments 1 Allocation inherit Read ahead sectors auto - currently set to 8192 Block device 253:0 --- Logical volume --- LV Path /dev/vgroot/elaproot LV Name elaproot VG Name vgroot LV UUID lPbpuh-zJ5E-4Zgf-mAAO-51RW-EnFI-XvY7J5 LV Write Access read/write LV Creation host, time ITHACA-A, 2023-12-12 02:46:57 -0500 LV Status available # open 1 LV Size 4.00 GiB Current LE 1024 Segments 1 Allocation inherit Read ahead sectors auto - currently set to 8192 Block device 253:6 --- Logical volume --- LV Path /dev/vgroot/logs LV Name logs VG Name vgroot LV UUID qctEIA-jBRX-s23u-E1oe-lO3w-yy5m-DGXaMA LV Write Access read/write LV Creation host, time ITHACA-A, 2023-12-12 02:46:58 -0500 LV Status available # open 1 LV Size 40.00 GiB Current LE 10240 Segments 1 Allocation inherit

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STEP #	Steps To Be Completed	Expected output/command to be executed
		Read ahead sectors auto - currently set to 8192 Block device 253:7 --- Logical volume --- LV Path /dev/vgroot/drbdmeta LV Name drbdmeta VG Name vgroot LV UUID PsHPy3-3bIa-WuU0-Qrg0-cQic-8ZRy-9cbDAu LV Write Access read/write LV Creation host, time ITHACA-A, 2023-12-12 02:47:00 -0500 LV Status available # open 1 LV Size 128.00 MiB Current LE 32 Segments 1 Allocation inherit Read ahead sectors auto - currently set to 8192 Block device 253:8 --- Logical volume --- LV Path /dev/vgroot/free LV Name free VG Name vgroot LV UUID sfy2P9-Ebbg-qAW7-Ic6F-OnsO-Rxpp-VZd2f0 LV Write Access read/write LV Creation host, time ITHACA-A, 2023-12-12 02:47:00 -0500 LV Status available # open 1 LV Size <178.66 GiB Current LE 45736 Segments 1 Allocation inherit Read ahead sectors auto - currently set to 8192 Block device 253:9 --- Physical volumes --- PV Name /dev/md2 PV UUID aIf59X-mkP8-gY2P-OIno-vljS-DTIU-zVCTVf PV Status allocatable

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STEP #	Steps To Be Completed	Expected output/command to be executed

```
  Total PE / Free PE    62908 / 0

  --- Volume group ---
  VG Name               vgdrbd0
  System ID
  Format                lvm2
  Metadata Areas        1
  Metadata Sequence No  84
  VG Access             read/write
  VG Status             resizable
  MAX LV                0
  Cur LV                2
  Open LV               1
  Max PV                0
  Cur PV                1
  Act PV                1
  VG Size               32.96 GiB
  PE Size               4.00 MiB
  Total PE              8439
  Alloc PE / Size       2560 / 10.00 GiB
  Free  PE / Size       5879 / 22.96 GiB
  VG UUID               9JdXH5-wt8m-hJxi-XymZ-AQUr-XjbJ-G0HxP3

  --- Logical volume ---
  LV Path                /dev/vgdrbd0/lnpdb
  LV Name                lnpdb
  VG Name                vgdrbd0
  LV UUID                ch9age-tsEh-OoGt-7Mr4-lZvk-0f7w-1fldam
  LV Write Access        read/write
  LV Creation host, time ITHACA-A, 2023-12-12 02:56:50 -0500
  LV Status              available
  # open                 0
  LV Size                4.00 GiB
  Current LE             1024
  Segments               1
  Allocation             inherit
  Read ahead sectors     auto
  - currently set to     256
  Block device           253:10

  --- Logical volume ---
  LV Path                /dev/vgdrbd0/mysql
```


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STEP #	Steps To Be Completed	Expected output/command to be executed
		LV Name mysql VG Name vgdrbd0 LV UUID GQHdBb-1SBK-if8F-xxC5-cCcW-1dEB-0Hn6qI LV Write Access read/write LV Creation host, time ITHACA-A, 2023-12-12 02:56:50 -0500 LV Status available # open 1 LV Size 6.00 GiB Current LE 1536 Segments 1 Allocation inherit Read ahead sectors auto - currently set to 256 Block device 253:11 --- Physical volumes --- PV Name /dev/drbd0 PV UUID sMe0Fc-6Tln-m2IZ-ShTt-iPV7-7thL-jqzQC2 PV Status allocatable Total PE / Free PE 8439 / 5879 [root@ITHACA-A ~]#

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STEP #	Steps To Be Completed	Expected output/command to be executed
13.	**MPSX:** Record the total amount of free and used physical and swap memory in the system.	$ free total used free shared buffers cached Mem: 8059508 4914216 3145292 17020 967576 1589512 -/+ buffers/cache: 2357128 5702380 Swap: 2064380 0 2064380

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STEP #	Steps To Be Completed	Expected output/command to be executed
14.	**MPSX:** Verify db filesystem use is less than 90%. Note any other filesystem at 80% or higher use. Output will	$ df -h Filesystem Size Used Avail Use% Mounted on /dev/mapper/vgroot-plat_root 976M 293M 633M 32% / tmpfs 3.9G 0 3.9G 0% /dev/shm /dev/md1 244M 49M 183M 22% /boot /dev/mapper/vgroot-plat_tmp 976M 1.9M 923M 1% /tmp /dev/mapper/vgroot-plat_usr 3.9G 2.0G 1.7G 55% /usr /dev/mapper/vgroot-plat_var 976M 248M 678M 27% /var /dev/mapper/vgroot-plat_var_tklc 3.9G 1.3G 2.4G 35% /var/TKLC /dev/mapper/vgroot-elaproot 3.9G 195M 3.5G 6% /usr/TKLC/elap /dev/mapper/vgroot-free 359G 71M 341G 1% /var/TKLC/elap/free /dev/mapper/vgroot-logs

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STEP #	Steps To Be Completed	Expected output/command to be executed
	vary for each server.	40G 50M 38G 1% /var/TKLC/elap/logs /dev/sdc1 1.1G 1.1G 7.4M 100% /media/sdc1 /dev/mapper/vgdrbd0-mysql 6.0G 251M 5.4G 5% /var/TKLC/elap/drbd/ mysql
15.	**MPSX**: Verify disk mirroring configuration and RAID status.	$ cat /proc/mdstat Personalities : [raid1] md1 : active raid1 sdb3[1] sda3[0] 262080 blocks super 1.0 [2/2] [UU] md2 : active raid1 sda2[0] sdb2[1] 26198016 blocks super 1.1 [2/2] [UU] bitmap: 0/1 pages [0KB], 65536KB chunk md3 : active raid1 sda1[0] sdb1[1] 442224640 blocks super 1.1 [2/2] [UU] bitmap: 3/4 pages [12KB], 65536KB chunk unused devices: <none>

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STEP #	Steps To Be Completed	Expected output/command to be executed
16.	**MPSX:** Record the hard drive and partition size.	$ sudo fdisk -l /dev/sd[a-z] 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: 0x000e7573 Device Boot Start End Blocks Id System /dev/sda1 1 55071 442355712 fd Linux raid autodetect /dev/sda2 55071 58335 26214400 fd Linux raid autodetect /dev/sda3 * 58335 58368 262144 fd Linux raid autodetect Disk /dev/sdb: 480.1 GB, 480103981056 bytes 255 heads, 63 sectors/ track, 58369 cylinders Units = cylinders of 16065 * 512 = 8225280 bytes

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STEP #	Steps To Be Completed	Expected output/command to be executed
		Sector size (logical/ physical): 512 bytes / 4096 bytes I/O size (minimum/ optimal): 4096 bytes / 4096 bytes Disk identifier: 0x000116f6 Device Boot Start End Blocks Id System /dev/sdb1 1 55071 442355712 fd Linux raid autodetect /dev/sdb2 55071 58335 26214400 fd Linux raid autodetect /dev/sdb3 * 58335 58368 262144 fd Linux raid autodetect Disk /dev/sdc: 2013 MB, 2013265920 bytes 256 heads, 63 sectors/ track, 243 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 Device Boot Start End Blocks Id System

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STEP #	Steps To Be Completed	Expected output/command to be executed
		/dev/sdc1 * 1 133 1072480+ b W95 FAT32

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STEP #	Steps To Be Completed	Expected output/command to be executed
17.	**MPSX:** Verify smartctl output.	$ sudo smartctl -A -l error /dev/sda smartctl 5.43 2012-06-30 r3573 [x86_64-linux-2.6.32-573.26.1.el6prerel7.0.3.0.0_86.46.0.x86_64] (local build) Copyright (C) 2002-12 by Bruce Allen, http://smartmontools.sourceforge.net === START OF READ SMART DATA SECTION === SMART Attributes Data Structure revision number: 1 Vendor Specific SMART Attributes with Thresholds: 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 - 6936 12 Power_Cycle_Count 0x0032 100 100 000 Old_age Always - 24 170 Unknown_Attribute 0x0033 100 100 010 Pre-fail Always - 0 171 Unknown_Attribute 0x0032 100 100 000 Old_age Always - 0

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STEP #	Steps To Be Completed	Expected output/command to be executed
		172 Unknown_Attribute 0x0032 100 100 000 Old_age Always - 0 174 Unknown_Attribute 0x0032 100 100 000 Old_age Always - 20 175 Program_Fail_Count_Chip 0x0033 100 100 010 Pre-fail Always - 180519371374 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 081 071 000 Old_age Always - 19 (Min/Max 13/32) 192 Power- Off_Retract_Count 0x0032 100 100 000 Old_age Always - 20 194 Temperature_Celsius 0x0022 100 100 000 Old_age Always - 30 197 Current_Pending_Sector 0x0032 100 100 000 Old_age Always - 0 199

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STEP #	Steps To Be Completed	Expected output/command to be executed
		UDMA_CRC_Error_Count 0x003e 100 100 000 Old_age Always - 0 225 Load_Cycle_Count 0x0032 100 100 000 Old_age Always - 554362 226 Load-in_Time 0x0032 100 100 000 Old_age Always - 1699 227 Torq-amp_Count 0x0032 100 100 000 Old_age Always - 74 228 Power-off_Retract_Count 0x0032 100 100 000 Old_age Always - 415883 232 Available_Reservd_Space 0x0033 100 100 010 Pre-fail Always - 0 233 Media_Wearout_Indicator 0x0032 099 099 000 Old_age Always - 0 234 Unknown_Attribute 0x0032 100 100 000 Old_age Always - 0 241 Total_LBAs_Written 0x0032 100 100 000 Old_age Always - 554362 242 Total_LBAs_Read 0x0032 100 100 000 Old_age Always - 1654705 SMART Error Log Version: 1

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STEP #	Steps To Be Completed	Expected output/command to be executed
		No Errors Logged **Note** If any error is observed, record the error and contact My Oracle Support.

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STEP #	Steps To Be Completed	Expected output/command to be executed
18.	**MPSX:** Start Disk Integrity Check	$ sudo smartctl -t short /dev/sda smartctl 5.43 2012-06-30 r3573 [x86_64-linux-2.6.32-642.15.1.el6prerel7.4.0.0.0_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 Thu Aug 17 03:49:25 2017 Use smartctl -X to abort test.

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STEP #	Steps To Be Completed	Expected output/command to be executed
19.	**MPSX:** Verify and record Disk Integrity Check results	$ sleep 60; sudo smartctl -l selftest /dev/sda smartctl 5.43 2012-06-30 r3573 [x86_64-linux-2.6.32-642.15.1.el6prerel7.4.0.0.0_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 Vendor (0xd0) Completed without error 00% 48283 - # 2 Vendor (0xf0) Completed without error 00% 48283 - # 3 Offline Completed without error 00% 48283 - # 4 Reserved (0x28) Completed without error 00% 47639 - # 5 Vendor (0x9a) Completed without error 00% 47421 - #

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STEP #	Steps To Be Completed	Expected output/command to be executed
		6 Reserved (0x2a) Completed without error 00% 19961 - # 7 Reserved (0x32) Completed without error 00% 19942 - **Note** Record if any error is reported and contact My Oracle Support.

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STEP #	Steps To Be Completed	Expected output/command to be executed
20.	**MPSX:** Record any hard disk sector error.	$ sudo smartctl -a /dev/sda | grep -i LBA 241 Total_LBAs_Written 0x0032 100 100 000 Old_age Always - 554366 242 Total_LBAs_Read 0x0032 100 100 000 Old_age Always - 1654885 Num Test_Description Status Remaining LifeTime(hours) LBA_of_first_error SPAN MIN_LBA MAX_LBA CURRENT_TEST_STATUS **Note** No error should be observed. In case any error is observed, output will be like as mentioned below, record the output and contact My Oracle Support. 40 51 a0 11 8e 57 e0 Error: UNC 160 sectors at LBA = 0x00578e11 = 538001 40 51 a8 11 8e 57 e0 Error: UNC 168 sectors at LBA = 0x00578e11 = 538001 Num Test_Description Status Remaining LifeTime(hours) LBA_of_first_error If UNC errors are found, execute following command: $ sudo smartctl -a /dev/sda

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STEP #	Steps To Be Completed	Expected output/command to be executed
21.	**MPSX**: Disk integrity step on second HDD.	Repeat steps from 17 to 20 for **"/dev/sdb"** disk drive.
22.	**MPSX**: Repeat the procedure for mate ELAP.	Repeat steps from 1 to 21 on mate ELAP server.

4.2 System Configuration

These steps can be performed on ELAP system. For mated pairs, commands should be run on both of the servers. Assuming, MPS A is ACTIVE.

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STEP #	Steps To Be Completed	Expected output/command to be executed
1.	**MPS X**: Login as elapdev	`login: elapdev password: <elapdev_password>`

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STEP #	Steps To Be Completed	Expected output/command to be executed

2.	**MPS X**: Record and verify the system configuration Select Option 1 from elapconfig menu.	`$ sudo su - elapconfig`
		
		`MPS Side A:  hostname: ELAP21  hostid: f80a150f`
		`Platform Version: 7.0.3.0.0_86.46.0`
		`Software Version: ELAP 10.1.0.0.0_101.10.0`
		`Wed Jul 19 17:10:30 IST 2017`
		
		`/-----ELAP 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 | Mate Disaster Recovery |`
		`|---|---------------------------------|`
		`| e | Exit |`
		`\----------------------------------------/`
		
		`Enter Choice: 1`
		
		`ELAP A Provisioning Network IP Address = 10.248.15.21`
		`ELAP B Provisioning Network IP Address = 10.248.15.22`
		`Provisioning Network Netmask = 255.255.255.0`
		`Provisioning Network Default Router = 10.248.15.1`
		`Provisioning VIP = 10.248.15.23`
		`ELAP A Sync Network Address = 169.254.1.100`
		`ELAP B Sync Network Address = 169.254.1.200`
		`ELAP A Main DSM Network Address = 192.168.120.100`
		`ELAP B Main DSM Network Address = 192.168.120.200`
		`ELAP A Backup DSM Network Address = 192.168.121.100`
		`ELAP B Backup DSM Network Address = 192.168.121.200`
		`ELAP A HTTP Port = 80`
		`ELAP B HTTP Port = 80`
		`ELAP A HTTPS Port = 443`
		`ELAP B HTTPS Port = 443`
		`ELAP A Banner Connection Port = 8473`
		`ELAP B Banner Connection Port = 8473`
		`ELAP A Static NAT Address = Not configured`
		`ELAP B Static NAT Address = Not configured`
		`ELAP A LSMS Connection Port = 7483`
		`ELAP B LSMS Connection Port = 7483`
		`ELAP A EBDA Connection Port = 1030`
		`ELAP B EBDA Connection Port = 1030`
		`Time Zone = Asia/Kolkata`
		
		`Press return to continue...`

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STEP #	Steps To Be Completed	Expected output/command to be executed
3.	**MPS X**: Record and verify the ntp configuration Select Option 7 from elapconfig menu and then Option 1 from ELAP Configure NTP Server Menu.	`$ sudo su - elapconfig` `MPS Side A: hostname: ELAP21 hostid: f80a150f` `Platform Version: 7.0.3.0.0_86.46.0` `Software Version: ELAP 10.1.0.0.0_101.10.0` `Wed Jul 19 17:10:49 IST 2017` `/-----ELAP 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	Mate Disaster Recovery |` `|---|---|` `| e	Exit |` `\--/`  `Enter Choice: 7`   `Verifying connectivity with mate...`  `MPS Side A: hostname: ELAP21 hostid: f80a150f` `Platform Version: 7.0.3.0.0_86.46.0` `Software Version: ELAP 10.1.0.0.0_101.10.0` `Wed Jul 19 17:41:32 IST 2017`  `/-----ELAP Configure NTP Server Menu-\` `/-------------------------------------\` `| 1	Display External NTP Server |` `|---|---|` `| 2	Add External NTP Server |` `|---|---|` `| 3	Remove External NTP Server |` `|---|---|` `| e	Exit |` `\-------------------------------------/`  `Enter Choice: 1`  `ntpserver1 10.248.13.17`  `Press return to continue...`

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STEP #	Steps To Be Completed	Expected output/command to be executed
4.	**MPS X**:Exit from elapconfig menu	MPS Side A: hostname: ELAP21 hostid: f80a150f Platform Version: 7.0.3.0.0_86.46.0 Software Version: ELAP 10.1.0.0.0_101.10.0 Wed Jul 19 17:42:45 IST 2017 /-----ELAP 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: ELAP21 hostid: f80a150f Platform Version: 7.0.3.0.0_86.46.0 Software Version: ELAP 10.1.0.0.0_101.10.0 Wed Jul 19 17:42:54 IST 2017 /-----ELAP 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 | Mate Disaster Recovery | |----|-----------------------------| | e | Exit | \---------------------------------------/ Enter Choice: e [elapdev@ELAP21 ~]$

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STEP #	Steps To Be Completed	Expected output/command to be executed

5.	**MPS X**:
	Record /etc/hosts configuration
		`$ cat /etc/hosts`
		
		`Do not modify this file by hand. Refer to Tekelec Configuration documentation.`
		`The order of the aliases in this file is significant to the installation process.`
		
		`127.0.0.1 localhost loghost Floater-3-prova-bkup mate-provb-bkup`
		`192.168.120.100 dsmm-a`
		`192.168.121.100 dsmb-a`
		`192.168.120.200 dsmm-b`
		`192.168.121.200 dsmb-b`
		`169.254.1.200 mate sync-b hasync-1a`
		`169.254.1.100 sync-a hasync-1b`
		`192.168.123.100 dsmvip-a`
		`192.168.123.200 dsmvip-b`
		`169.254.1.201 mate-ipdptp0 server_ppp0`
		`169.254.1.202 mate-ppp client_ppp0`
		`169.254.1.101 Floater-3-ipdptp0 server_ppp1`
		`169.254.1.102 Floater-3-ppp client_ppp1`
		`169.254.1.1 switch1A`
		`169.254.1.2 switch1B`
		`10.75.124.247`
		`10.75.141.107 Floater-3 prova-ip`
		`10.75.141.108 mate-prov provb-ip Floater-4`
		`10.75.141.109 prov-vip`

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STEP #	Steps To Be Completed	Expected output/command to be executed

6.	**MPS X**: Verify and Record IPs configured on each interface.	`$ ifconfig -a`
		`bond0 Link encap:Ethernet HWaddr 00:00:17:0E:A6:9F`
		`inet6 addr: fe80::200:17ff:fe0e:a69f/64 Scope:Link`
		`UP BROADCAST RUNNING MASTER MULTICAST MTU:1500 Metric:1`
		`RX packets:1929134 errors:0 dropped:0 overruns:0 frame:0`
		`TX packets:19001949 errors:0 dropped:0 overruns:0 carrier:0`
		`collisions:0 txqueuelen:0`
		`RX bytes:144187191 (137.5 MiB) TX bytes:28087840989 (26.1 GiB)`
		`bond0.1 Link encap:Ethernet HWaddr 00:00:17:0E:A6:9F`
		`inet addr:169.254.1.100 Bcast:169.254.1.255 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:1916373 errors:0 dropped:0 overruns:0 frame:0`
		`TX packets:1366320 errors:0 dropped:0 overruns:0 carrier:0`
		`collisions:0 txqueuelen:0`
		`RX bytes:116466961 (111.0 MiB) TX bytes:26923908883 (25.0 GiB)`
		`bond0.3 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:12253 errors:0 dropped:0 overruns:0 frame:0`
		`TX packets:12246 errors:0 dropped:0 overruns:0 carrier:0`
		`collisions:0 txqueuelen:0`
		`RX bytes:685938 (669.8 KiB) TX bytes:681040 (665.0 KiB)`
		`bond1 Link encap:Ethernet HWaddr B2:69:BB:E5:71:36`
		`BROADCAST MASTER MULTICAST MTU:1500 Metric:1`
		`RX packets:0 errors:0 dropped:0 overruns:0 frame:0`

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STEP #	Steps To Be Completed	Expected output/command to be executed
		TX packets:0 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:0 RX bytes:0 (0.0 b) TX bytes:0 (0.0 b) bond2 Link encap:Ethernet HWaddr 7E:7E:C9:9E:5E:FA BROADCAST MASTER 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:0 RX bytes:0 (0.0 b) TX bytes:0 (0.0 b) bond3 Link encap:Ethernet HWaddr EE:AC:C5:EC:28:BE BROADCAST MASTER 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:0 RX bytes:0 (0.0 b) TX bytes:0 (0.0 b) 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:8390156 errors:0 dropped:0 overruns:0 frame:0 TX packets:7898637 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:1310423076 (1.2 GiB) TX bytes:724420390 (690.8 MiB) Memory:fdee0000-fdefffff 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 UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 RX packets:12250 errors:0 dropped:0

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STEP #	Steps To Be Completed	Expected output/command to be executed
		overruns:0 frame:0 TX packets:12255 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:857300 (837.2 KiB) TX bytes:681418 (665.4 KiB) Memory:fde60000-fde7ffff eth03 Link encap:Ethernet HWaddr 00:00:17:0E:A6:9F UP BROADCAST RUNNING SLAVE MULTICAST MTU:1500 Metric:1 RX packets:1929134 errors:0 dropped:0 overruns:0 frame:0 TX packets:19001949 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:144187191 (137.5 MiB) TX bytes:28087840989 (26.1 GiB) Memory:fdfe0000-fdffffff eth04 Link encap:Ethernet HWaddr 00:00:17:0E:A6:9F UP BROADCAST SLAVE 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 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:1605595 errors:0 dropped:0 overruns:0 frame:0 TX packets:1605595 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:0 RX bytes:106538690 (101.6 MiB) TX bytes:106538690 (101.6 MiB) lo:1 Link encap:Local Loopback inet addr:192.168.123.100 Mask:255.255.255.0 UP LOOPBACK RUNNING MTU:65536 Metric:1

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STEP #	Steps To Be Completed	Expected output/command to be executed
7.	**MPS X**: Record EuiDB settings	$ uiEdit "LNP_ENABLED" is set to "TRUE" "Alarms_Purged_Nb_Days" is set to "30" "new_user_default_groups" is set to "readonly" "max_passwd_age" is set to "60" "EBDAD_LSMS_PORT" is set to "1030" "max_concurrent_user_logins" is set to "1" "ELAP_A_DSM_LPBK_NETWORK_ADDRESS" is set to "192.168.123.100" "max_concurrent_logins" is set to "20" "ELAP_A_NAME" is set to "Floater-3" "ELAP_RELEASE" is set to "10.1.1" "ELAP_LOGGING_REMOTE_USERNAME" is set to "" "ELAP_A_SYNCH_NETWORK_ADDRESS" is set to "169.254.1.100" "AUTO_RTDB_BKUP_FILEPATH" is set to "/var/TKLC/elap/free/backup/" "HTTP_ENABLED" is set to "No" "ELAP_A_PRETTY_NAME" is set to "ELAP_A_NAME" "AUTO_RTDB_BKUP_FILES_TO_MANTAIN" is set to "5" "session_idle_timeout" is set to "10" "ELAP_B_PROV_NETWORK_IP_ADDRESS" is set to "10.75.141.108" "EXINIT_DEBUG_LEVEL" is set to "OFF" "SNAPPER_ROLLBACK_INTERVAL" is set to "900" "EBDAD_DEBUG_LEVEL" is set to "OFF" "MAINT_DEBUG_NUM_LOGS" is set to "5" "RIDB_LV_PATH" is set to "/dev/vgdrbd0" "PROV_DEBUG_NUM_LOGS" is set to "5" "LNPTRANS_LOG_DAYS" is set to "7" "EXINIT_DEBUG_NUM_LOGS" is set to "5" "ELAP_A_HTTP_PORT" is set to "80" "EXINIT_ERROR_NUM_LOGS" is set to "5" "logon_msg" is set to "NOTICE: This is a private computer system. Unauthorized access or use may lead to prosecution." "ELAP_B_HTTPS_PORT" is set to "443" "ELAP_B_NAME" is set to "Floater-4" "AUTO_RTDB_BKUP_TIME" is set to "6:00" "EBDAD_GS_PORT" is set to "9692" "LNP_LRN_QTY" is set to "150000" "BACKUP_FILE_DIR" is set to "/var/TKLC/elap/free/backup" "ELAP_LOGGING_EXPORT" is set to "DISABLED" "AUTO_RTDB_BKUP_FREQUENCY" is set to "1" "PROVISIONING_NETWORK_NETMASK" is set to "255.255.255.0" "ELAP_LOGGING_REMOTE_SFTP_PATH" is set to "" "ELAP_B_SYNCH_NETWORK_ADDRESS" is set to "169.254.1.200"

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STEP #	Steps To Be Completed	Expected output/command to be executed
		"ELAP_A_HTTPS_PORT" is set to "443" "ELAP_A_DSM_MAIN_NETWORK_ADDRESS" is set to "192.168.120.100" "ELAP_A_SUEXEC_HTTPS_PORT" is set to "8002" "ELAP_A_GS_BANNER_PORT" is set to "8473" "ELAP_B_DSM_BACKUP_NETWORK_ADDRESS" is set to "192.168.121.200" "MAINT_DEBUG_LEVEL" is set to "OFF" "DOWNLOAD_FILE_DIR" is set to "/var/TKLC/elap/free/backup" "euidb_version" is set to "3" "LNP_NPANXX_QTY" is set to "300000" "LSMS_PROVISIONING" is set to "OFF" "ELAP_LOGGING_TIME_FORMAT" is set to "UTC" "MAINT_ERROR_NUM_LOGS" is set to "5" "UI_IP_AUTHORIZATION_ENABLED" is set to "FALSE" "ELAP_LOGGING_REMOTE_IP_ADDRESS" is set to "" "AUTO_RTDB_BKUP_DELETE_OPTION" is set to "y" "HSOPD_ERROR_NUM_LOGS" is set to "5" "TRPD_ERROR_NUM_LOGS" is set to "5" "apache_403_error_message" is set to "NOTICE: This workstation is not authorized to access the GUI." "EBDAD_ERROR_NUM_LOGS" is set to "5" "max_account_inactivity" is set to "0" "HSOPD_DEBUG_LEVEL" is set to "OFF" "TRPD_DEBUG_NUM_LOGS" is set to "5" "ELAP_LOGGING_REMOTE_PASSWORD" is set to "" "ELAP_B_HTTP_PORT" is set to "80" "MATE_MPS_HTTPS_PORT" is set to "443" "EBDAD_DEBUG_NUM_LOGS" is set to "5" "ELAP_B_PRETTY_NAME" is set to "ELAP_B_NAME" "HSOPD_LSMS_PROVISIONING_PORT" is set to "7483" "ELAP_RIDB_RELEASE" is set to "10.0.0" "SNAPPER_LOG_LEVEL" is set to "4" "AUTO_RTDB_BKUP_TYPE" is set to "local_mate" "PROV_ERROR_NUM_LOGS" is set to "5" "ELAP_A_PROV_NETWORK_IP_ADDRESS" is set to "10.75.141.107" "CNF_QTY_THRESHOLD_PERC" is set to "90" "MATE_MPS_HTTP_PORT" is set to "80" "passwd_reuse_limit" is set to "12" "apache_403_error_message_default" is set to "NOTICE: This workstation is not authorized to access the GUI." "HTTPS_ENABLED" is set to "Yes" "HSOPD_DEBUG_NUM_LOGS" is set to "5" "ELAP_B_DSM_MAIN_NETWORK_ADDRESS" is set to "192.168.120.200" "LOCAL_PROVISIONING_VIP" is set to "10.75.141.109" "TRPD_DEBUG_LEVEL" is set to "OFF" "RTDB_AUDIT" is set to "ON"

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STEP #	Steps To Be Completed	Expected output/command to be executed
		"LNP_TN_QTY" is set to "96000000" "ELAP_B_GS_BANNER_PORT" is set to "8473" "PROV_DEBUG_LEVEL" is set to "OFF" "RELOAD_FLOW_CONTROL_TIME" is set to "200" "passwd_complexity_checking" is set to "on" "LNP_MR_QTY" is set to "2000000" "RTDBA_NUM_LOGS" is set to "5" "PROVISIONING_NETWORK_DEFAULT_ROUTER" is set to "10.75.141.1" "RIDB_LV_NAME" is set to "lnpdb" "ELAP_A_SUEXEC_HTTP_PORT" is set to "8001" "ELAP_B_SUEXEC_HTTPS_PORT" is set to "8002" "LNP_LRNMR_QTY" is set to "2000000" "ELAP_LOGGING_ENHANCEMENTS_FEATURE" is set to "OFF" "ELAP_A_DSM_BACKUP_NETWORK_ADDRESS" is set to "192.168.121.100" "HSOPD_GS_PORT" is set to "9691" "ELAP_B_SUEXEC_HTTP_PORT" is set to "8001" "ELAP_B_DSM_LPBK_NETWORK_ADDRESS" is set to "192.168.123.200" "max_failed_logins" is set to "3" "BULK_DOWNLOAD" is set to "ON"

8.	**MPS X**: Verify lnpdb logical volume.	$ su – admusr
		$ Password:<admusr_password>
		$ sudo lvs
		LV VG Attr LSize Pool Origin Data% Meta% Move Log Cpy%Sync Convert
		lnpdb vgdrbd0 owi-aos--k 2.50g
		mysql vgdrbd0 -wi-ao---k 6.00g
		rollbacksnap vgdrbd0 sri-a-s--- 2.50g
		lnpdb 0.00
		drbdmeta vgroot -wi-ao---- 128.00m
		elaproot vgroot -wi-ao---- 4.00g
		free vgroot -wi-ao---- 196.97g
		logs vgroot -wi-ao---- 40.00g
		plat_root vgroot -wi-ao---- 1.00g
		plat_swap vgroot -wi-ao---- 1.97g
		plat_tmp vgroot -wi-ao---- 1.00g
		plat_usr vgroot -wi-ao---- 4.00g
		plat_var vgroot -wi-ao---- 1.00g
		plat_var_tklc vgroot -wi-ao---- 4.00g
		$ exit

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STEP #	Steps To Be Completed	Expected output/command to be executed

9.	**MPS X**: Verify operational status of ELAP software.	`$ service Elap status`
		`~~ /etc/init.d/Elap status ~~`
		`--------------------------`
		`process hsopd is running.`
		`process ebdad is running.`
		`process maint is running.`
		`process prov is running.`
		`process trpd is running.`
		`--------------------------`
		`ELAP application is running`

10.	**MPS X**: Verify HA status	`$ hastatus; ssh mate hastatus`
		`ACTIVE`
		`STANDBY`

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STEP #	Steps To Be Completed	Expected output/command to be executed

11.	**MPS X**: Record cron file configuration	`$ cat /etc/cron.d/TS.EXAP`
		`#`
		`# Task Scheduler cron file for EXAP`
		`#`
		`# WARNING: This file is automatically generated.  Do not manually edit it.`
		`#`
		`SHELL=/bin/bash`
		`MAILTO=""`
		`# BEGTYPE=ELAPLOGGING`
		`# ID=LOGSRMCP, Action="/usr/TKLC/elap/bin/removeCompressLogs", Sched="daily,1,00:01"`
		`01 00 * * * elapdev /usr/TKLC/elap/bin/removeCompressLogs`
		`# ID=LOGSSFTP, Action="/usr/TKLC/elap/bin/transferLogsToRemote", Sched="hourly,1,00"`
		`00 * * * * elapdev /usr/TKLC/elap/bin/transferLogsToRemote`
		`# ENDTYPE`
		`# BEGTYPE=AUTOBKPNOTCFD`
		`# ID=1, Action="/usr/TKLC/elap/bin/raiseAlarmAutoBkpNotConfgd.pl", Sched="minutely,5"`
		`*/5 * * * * elapdev /usr/TKLC/elap/bin/raiseAlarmAutoBkpNotConfgd.pl`
		`# ENDTYPE`
		`# BEGTYPE=AUTO_RTDB_BCKP`
		`# ID=1, Action="/usr/TKLC/elap/bin/autoBackupRtdb.sh", Sched="daily,1,06:00"`
		`00 06 * * * elapdev /usr/TKLC/elap/bin/autoBackupRtdb.sh`
		`# ENDTYPE`
		`# BEGTYPE=HTTPSDISABLE`
		`# ID=1, Action="/usr/TKLC/elap/bin/raiseBnrMsgHttpsDisable.pl", Sched="hourly,12,00"`
		`00 */12 * * * elapdev /usr/TKLC/elap/bin/raiseBnrMsgHttpsDisable.pl`
		`# ENDTYPE`

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STEP #	Steps To Be Completed	Expected output/command to be executed
12.	**MPS X**: Record /etc/passwd file	$ 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 admusr:x:4996:4996:Platform remote admin user:/home/admusr:/bin/bash rpc:x:32:32:Rpcbind Daemon:/var/cache/rpcbind:/sbin/nologin 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/sshd:/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 tpdProvd:x:5010:5010:TPD Provisioning Daemon:/home/tpdProvd:/usr/bin/false syscheck:x:71:71:System Health Check User:/home/syscheck:/usr/TKLC/plat/bin/run_syscheck 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:497:449:MySQL server:/var/TKLC/elap/db:/bin/bash

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STEP #	Steps To Be Completed	Expected output/command to be executed
		elapdev:x:3000:6001:elapdev user:/home/elapall:/bin/bash elap:x:3006:6001:elap no login user:/home/elapall:/sbin/nologin elapconfig:x:3002:6001:elapconfig user:/home/elapconfig:/home/elapconfig/runrunUI appuser:x:3004:6002:appuser user for viewing log files from the GUI:/usr/TKLC/elap/logs:/bin/rbash

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STEP #	Steps To Be Completed	Expected output/command to be executed

13.	**MPS X**: Backup the EuiDB.	`$ sudo su - elapconfig`
		
		`MPS Side A: hostname: ELAP21 hostid: f80a150f`
		`Platform Version: 7.0.3.0.0_86.46.0`
		`Software Version: ELAP 10.1.0.0.0_101.10.0`
		`Wed Jul 19 17:45:25 IST 2017`
		
		`/-----ELAP 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 | Mate Disaster Recovery |`
		`|----|----------------------------------|`
		`| e | Exit |`
		`\----------------------------------------/`
		
		`Enter Choice: 6`
		
		`MPS Side A: hostname: ELAP21 hostid: f80a150f`
		`Platform Version: 7.0.3.0.0_86.46.0`
		`Software Version: ELAP 10.1.0.0.0_101.10.0`
		`Wed Jul 19 17:45:28 IST 2017`
		
		`/-----ELAP Platform Menu-\`
		`/-------------------------\`
		`| 1 | Initiate Upgrade |`
		`|----|--------------------|`
		`| 2 | Reboot MPS |`
		`|----|--------------------|`
		`| 3 | MySQL Backup |`
		`|----|--------------------|`
		`| 4 | RTDB Backup |`
		`|----|--------------------|`
		`| e | Exit |`
		`\-------------------------/`
		
		`Enter Choice: 3`
		
		`Are you sure you want to back up the MySQL database on MPS A? [N]: Y`
		`Backup will be saved as "/var/TKLC/appl/free/npdbBackup_ELAP21_20170719174539.tar"...`
		`Connecting to local MySQL server...`
		`Getting read lock...`
		`Tarring the NPDB...`
		`Backup Complete...`
		`Disconnecting from local MySQL server...`

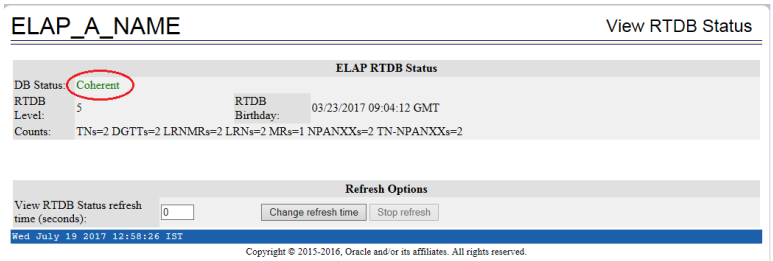
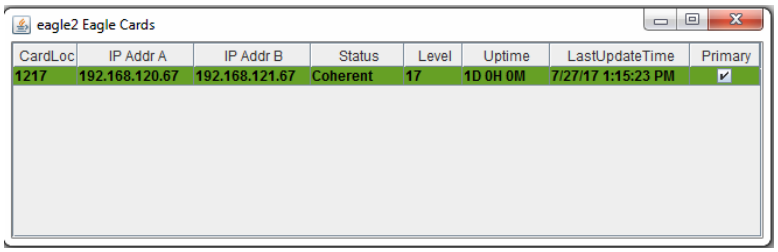
14.	**MPS X**: Verify backups are being taken properly.	`$ ls -ltrh /var/TKLC/appl/free/`
		`npdbBackup_ELAP21_20170719174539.tar`
		`-rw-r----- 1 root root 220K Jul 19 12:05 /var/TKLC/`
		`appl/free/npdbBackup_ELAP21_20170719174539.tar`

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STEP #	Steps To Be Completed	Expected output/command to be executed

15.	**MPS X**: Gather application log files.	`$ sudo savelogs –all` Logs will be save in /var/TKLC/elap/free/ directory
		
		`$ ls -ltrh /var/TKLC/elap/free/`
		`-rw-r----- 1 elapdev elap 2.6M Jul 18 17:13 /var/TKLC/elap/free/`
		`logsCapture_ELAP21_20170718171310.tar.bz2`

16.	**MPS X**: Gather system log files.	`$ su – admusr`
		`$ Password: <admusr_password>`
		`$ sudo /usr/TKLC/plat/sbin/savelogs_plat`
		
		Logs will be saved in /tmp directory
		
		`/tmp/savelogs_plat.Natal-A.10689.tar.bz2`
		`$ exit`

17.	**MPS X**: Verify RTDB status from GUI. From GUI select “RTDB->View RTDB status” Verify that RTDB status on ELAP is coherent which indicates that LSMS and ELAP are in sync.	
18.	**MPS X**: Verify DMS DB levels matched and DB status is coherent on all STP cards From ELAP GUI banner, click on notepad icon beside EAGLE.	

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STEP #	Steps To Be Completed	Expected output/command to be executed

19.	**MPS X**: Verify DB status on DSM cards and that their provisioning system is taking updates.	Login to EAGLE and run command:
		
		`rept-stat-db:display=all`
		`Command Accepted - Processing`
		`eagle2 17-07-27 13:54:12 EST EAGLE 46.6.0.0.0-71.5.0`
		`rept-stat-db:display=all`
		`Command entered at terminal #2.`
		
		`eagle2 17-07-27 13:53:49 EST EAGLE 46.6.0.0.0-71.5.0`
		`eagle2 17-07-27 13:54:12 EST EAGLE 46.6.0.0.0-71.5.0`
		`DATABASE STATUS: >> OK <<al #2.`
		`TDM 1114 ( STDBY) TDM 1116 ( ACTV )`
		`C LEVEL TIME LAST BACKUP C LEVEL TIME LAST BACKUP`
		`- -------- ---------- - -------- ----------`
		`FD BKUP Y 54 17-07-24 12:43:00 EST Y 54 17-07-24 12:43:00 EST`
		`FD CRNT Y 111 Y 111`
		`GTT DB`
		`4 4`
		`MCAP 1113 MCAP 1115 0`
		`- -------- -`
		`RD BKUP - - - - - - - .`
		`USB BKP - - - - - - -`
		`NOTICE: This is a private computer system.`
		`CARD/APPL LOC C T LEVEL TIME LAST UPDATE EXCEPTION`
		`--------- ---- - - ---------- ---------- ----------`
		`IPSG 1102 - - - -`
		`CCS7ITU 1103 - - - -`
		`EROUTE 1104 - - - -`
		`IPS 1105 - - - -`
		`OAM-RMV 1113 - - - -`
		`TDM-CRNT 1114 Y N 111 17-07-26 16:01:42 -`

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STEP #	Steps To Be Completed	Expected output/command to be executed
		TDM-BKUP 1114 Y - 54 17-07-21 13:14:02 DIFF LEVEL OAM-RMV 1115 - - - - - - OAM-USB 1115 - - - - - - TDM-CRNT 1116 Y N 111 17-07-26 16:01:42 - TDM-BKUP 1116 Y - 54 17-07-21 13:14:02 DIFF LEVEL CCS7ITU 1201 Y N 111 17-07-26 16:01:42 - ATMANSI 1202 - - - - - - ATMITU 1203 - - - - - - CCS7ITU 1204 Y N 111 17-07-26 16:01:42 - CCS7ITU 1205 - - - - - - CCS7ITU 1207 - - - - - - ATMITU 1216 - - - - - - VSCCP 1217 Y N 111 17-07-26 16:01:42 - ELAP A (ACTV) C BIRTHDATE LEVEL EXCEPTION - ---------- ---------- ---------- RTDB Y 17-03-23 14:34:12 17 - RTDB-EAGLE 17-03-23 14:34:12 17 - ELAP B (STDBY) C BIRTHDATE LEVEL EXCEPTION - ---------- ---------- ---------- RTDB Y 17-03-23 14:34:12 17 - RTDB-EAGLE 17-03-23 14:34:12 17 - EAGLE RTDB REPORT CARD/APPL LOC C BIRTHDATE LEVEL EXCEPTION IN-SRVC --------- ---- - ---------- ---------- ---------- ----------

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STEP #	Steps To Be Completed	Expected output/command to be executed
		VSCCP 1217 Y 17-03-23 09:04:12 17 - 1d 1h 50m
20.	**MPS X**: Verify alarms present on STP cards.	Run following command on EAGLE to check alarms rept-stat-alm Command Accepted - Processing eagle2 17-07-27 13:55:19 EST EAGLE 46.6.0.0.0-71.5.0 rept-stat-alm Command entered at terminal #2. eagle2 17-07-27 13:55:20 EST EAGLE 46.6.0.0.0-71.5.0 ALARM TRANSFER= RMC ALARM MODE CRIT= AUDIBLE MAJR= AUDIBLE MINR= AUDIBLE ALARM FRAME 1 CRIT= 11 MAJR= 36 MINR= 19 ALARM FRAME 2 CRIT= 0 MAJR= 0 MINR= 0 ALARM FRAME 3 CRIT= 0 MAJR= 0 MINR= 0 ALARM FRAME 4 CRIT= 0 MAJR= 0 MINR= 0 ALARM FRAME 5 CRIT= 0 MAJR= 0 MINR= 0 ALARM FRAME 6 CRIT= 0 MAJR= 0 MINR= 0 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= 11 MAJR= 36 MINR= 19 TOTAL ALARMS CRIT= 11 MAJR= 36 MINR= 19 Command Completed.

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My Oracle Support (MOS) is your initial point of contact for any of the following requirements:

- **Product Support**:
  The generic product related information and resolution of product related queries.
- **Critical Situations**
  A critical situation is defined as a problem with the installed equipment that severely affects service, traffic, or maintenance capabilities, and requires immediate corrective action. Critical situations affect service and/or system operation resulting in one or several of these situations:
  - A total system failure that results in loss of all transaction processing capability
  - Significant reduction in system capacity or traffic handling capability
  - Loss of the system's ability to perform automatic system reconfiguration
  - Inability to restart a processor or the system
  - Corruption of system databases that requires service affecting corrective actions
  - Loss of access for maintenance or recovery operations
  - Loss of the system ability to provide any required critical or major trouble notification

  Any other problem severely affecting service, capacity/traffic, billing, and maintenance capabilities may be defined as critical by prior discussion and agreement with Oracle.
- **Training Need**
  Oracle University offers training for service providers and enterprises.

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

Call the Customer Access Support 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:

- For Technical issues such as creating a new Service Request (SR), select **1**.
- For Non-technical issues such as registration or assistance with My Oracle Support, select **2**.
- For Hardware, Networking and Solaris Operating System Support, select **3**.

You are connected to a live agent who can assist you with My Oracle Support registration and opening a support ticket.

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