

**Oracle® Communications**  
**EAGLE LNP Application Processor**  
**System Health Check Guide**  
Release 11.0  
**F90377-01**

January 2024

**ORACLE®**

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Refer to Appendix 5 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 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. Acronyms**

Acronym/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:

*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*



**Figure 1. Example of a step that indicates the Server on which it needs to be executed**

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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:

- a. Accept and store data provisioned by the customer from LSMS over the provisioning network.
- b. 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	

## 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.

S T E P #	Steps To Be Completed	Expected output/command to be executed
1. <input type="checkbox"/>	<b>MPS X:</b> Login as admusr	login: admusr  password: <admusr_password>
2. <input type="checkbox"/>	<b>MPS X:</b> Record the TPD version	\$ getPlatRev  7.4.0.0_88.37.0
3. <input type="checkbox"/>	<b>MPS X:</b> 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
4. <input type="checkbox"/>	<b>MPS X:</b> 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
5. <input type="checkbox"/>	<b>MPS X:</b> 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.

<p>6. <input type="checkbox"/></p>	<p><b>MPS X:</b> Record the ELAP release number from rpm query.</p>	<pre>[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   : &lt;@tekelec.com&gt; 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.</pre>
<p>7. <input type="checkbox"/></p>	<p><b>MPS X:</b> 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</pre>

		<p>Running modules in class services... OK</p> <p>Running modules in class system... OK</p> <p>Running modules in class upgrade... OK</p> <p>LOG LOCATION: /var/TKLC/log/syscheck/fail_log</p> <p>Note: Incase one or more modules FAILED, rerun the command with verbose option like: \$ sudo syscheck -v</p> <p>Record the output and contact My Oracle Support.</p>
8. <input type="checkbox"/>	<p><b>MPS X:</b> Verify all current banner header messages</p>	<p>\$ manageBannerInfo -l</p> <p>There are currently no BannerInfo messages for this side in the database.</p> <p>Note: Incase there are any alarms record those alarms and contact My Oracle Support.</p>
9. <input type="checkbox"/>	<p><b>MPS X:</b> Retrieve alarm status from alarm manager.</p>	<p>\$ alarmMgr --alarmStatus</p> <p>Note: No output will be displayed if there are no alarms on the system. Incase any output is observed record the output. Sample alarms are displayed below:</p> <p>\$ alarmMgr --alarmStatus</p> <p>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</p>
10. <input type="checkbox"/>	<p><b>MPS X:</b> Record the last lines of alarm log</p>	<p>\$ tail -40 /var/TKLC/elap/logs/alarm.log</p> <p>2017-07-09 01:55:54 - ***** Beginning Alarm Log *****</p> <p>2017-07-09 01:55:54 -  ELAP HSOPD S Critical Application 1 2017-07-09 01:55:55 -  ELAP SysCheck S Major Platform 1000000 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</p>

11. <input type="checkbox"/>	<p><b>MPS X:</b> Record the last lines of messages log</p>	<pre>\$ tail -40 /var/log/messages Jul 16 05:05:17 Floater-3 sudo: admusr : TTY=pts/0 ; PWD=/home/admusr ; USER=root ; COMMAND=/usr/TKLCL/plat/bin/syscheck</pre>
12. <input type="checkbox"/>	<p><b>MPS X:</b> Verify the attributes of volume groups</p> <p>If the output does not contain the “logical volume” sections, contact My Oracle Support so that corrective procedures can be scheduled to be performed.</p>	<pre>\$ 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          dgSFv1-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</pre>

	<pre> 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 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 </pre>
--	---

	<pre> 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  --- 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 </pre>
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	<pre> 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 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 </pre>
--	--

	<pre> 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 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 </pre>
--	--

		<pre> 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            &lt;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 Total PE / Free PE 62908 / 0 </pre>
--	--	---

	<pre> --- 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 </pre>
--	--

		<pre> Read ahead sectors  auto - currently set to  256 Block device        253:10  --- Logical volume --- LV Path              /dev/vgdrbd0/mysql 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 ~]# </pre>
13. <input type="checkbox"/>	<p><b>MPS X:</b> 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:   8059508 4914216 3145292   17020   967576  1589512 -/+ buffers/cache: 2357128 5702380 </pre>

		Swap: 2064380 0 2064380
14. <input type="checkbox"/>	<p><b>MPS X:</b> 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 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                 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</pre>
15. <input type="checkbox"/>	<p><b>MPS X:</b> Verify disk mirroring configuration and RAID status</p>	<pre>\$ 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</pre>

		<pre>md3 : active raid1 sda1[0] sdb1[1]       442224640 blocks super 1.1 [2/2] [UU]       bitmap: 3/4 pages [12KB], 65536KB chunk  unused devices: &lt;none&gt;</pre>
<p>16. <input type="checkbox"/></p>	<p><b>MPS X:</b> Record the hard drive and partition size</p>	<pre>\$ 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    44235712   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 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    44235712   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</pre>

		<p>Sector size (logical/physical): 512 bytes / 512 bytes</p> <p>I/O size (minimum/optimal): 512 bytes / 512 bytes</p> <p>Disk identifier: 0x488965c1</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/sdc1</td> <td>*</td> <td>1</td> <td>133</td> <td>1072480+</td> <td>b</td> <td>W95 FAT32</td> </tr> </tbody> </table>	Device	Boot	Start	End	Blocks	Id	System	/dev/sdc1	*	1	133	1072480+	b	W95 FAT32
Device	Boot	Start	End	Blocks	Id	System										
/dev/sdc1	*	1	133	1072480+	b	W95 FAT32										
<p>17. <input type="checkbox"/></p>	<p><b>MPS X:</b> Verify smartctl output</p>	<pre>\$ sudo smartctl -A -l error /dev/sda smartctl 5.43 2012-06-30 r3573 [x86_64-linux-2.6.32- 573.26.1.el6prere17.0.3.0.0_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  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</pre>														

		<pre> 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 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  No Errors Logged  <b>Note:</b> If any error is observed record the error and contact My Oracle Support.</pre>
18. <input type="checkbox"/>	<b>MPS X:</b> Start Disk Integrity Check	<pre> \$ sudo 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)</pre>

		<p>Copyright (C) 2002-12 by Bruce Allen,  <a href="http://smartmontools.sourceforge.net">http://smartmontools.sourceforge.net</a></p> <p>=== START OF OFFLINE IMMEDIATE AND SELF-TEST SECTION ===</p> <p>Sending command: "Execute SMART Short self-test routine immediately in off-line mode".</p> <p>Drive command "Execute SMART Short self-test routine immediately in off-line mode" successful.</p> <p>Testing has begun.</p> <p>Please wait 1 minutes for test to complete.</p> <p>Test will complete after Thu Aug 17 03:49:25 2017</p> <p>Use smartctl -X to abort test.</p>																																																
19. <input type="checkbox"/>	<p><b>MPS X:</b>  Verify and record Disk Integrity Check results</p>	<pre>\$ sleep 60; sudo smartctl -l selftest /dev/sda</pre> <p>smartctl 5.43 2012-06-30 r3573 [x86_64-linux-2.6.32-642.15.1.el6prere17.4.0.0.0_88.37.0.x86_64] (local build)</p> <p>Copyright (C) 2002-12 by Bruce Allen,  <a href="http://smartmontools.sourceforge.net">http://smartmontools.sourceforge.net</a></p> <p>=== START OF READ SMART DATA SECTION ===</p> <p>SMART Self-test log structure revision number 1</p> <table border="1"> <thead> <tr> <th>Num</th> <th>Test_Description</th> <th>Status</th> <th>Remaining</th> <th>LifeTime(hours)</th> <th>LBA_of_first_error</th> </tr> </thead> <tbody> <tr> <td># 1</td> <td>Vendor (0xd0)</td> <td>Completed without error</td> <td>00%</td> <td>48283</td> <td>-</td> </tr> <tr> <td># 2</td> <td>Vendor (0xf0)</td> <td>Completed without error</td> <td>00%</td> <td>48283</td> <td>-</td> </tr> <tr> <td># 3</td> <td>Offline</td> <td>Completed without error</td> <td>00%</td> <td>48283</td> <td>-</td> </tr> <tr> <td># 4</td> <td>Reserved (0x28)</td> <td>Completed without error</td> <td>00%</td> <td>47639</td> <td>-</td> </tr> <tr> <td># 5</td> <td>Vendor (0x9a)</td> <td>Completed without error</td> <td>00%</td> <td>47421</td> <td>-</td> </tr> <tr> <td># 6</td> <td>Reserved (0x2a)</td> <td>Completed without error</td> <td>00%</td> <td>19961</td> <td>-</td> </tr> <tr> <td># 7</td> <td>Reserved (0x32)</td> <td>Completed without error</td> <td>00%</td> <td>19942</td> <td>-</td> </tr> </tbody> </table> <p><b>Note:</b> Record if any error is reported and contact My Oracle Support.</p>	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	-	# 6	Reserved (0x2a)	Completed without error	00%	19961	-	# 7	Reserved (0x32)	Completed without error	00%	19942	-
Num	Test_Description	Status	Remaining	LifeTime(hours)	LBA_of_first_error																																													
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# 4	Reserved (0x28)	Completed without error	00%	47639	-																																													
# 5	Vendor (0x9a)	Completed without error	00%	47421	-																																													
# 6	Reserved (0x2a)	Completed without error	00%	19961	-																																													
# 7	Reserved (0x32)	Completed without error	00%	19942	-																																													
20. <input type="checkbox"/>	<p><b>MPS X:</b>  Record any hard disk sector error</p>	<pre>\$ sudo smartctl -a /dev/sda   grep -i LBA</pre> <p>241 Total_LBAs_Written 0x0032 100 100 000 Old_age Always  - 554366</p>																																																

		<pre>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  <b>Note:</b> 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</pre>
21. <input type="checkbox"/>	<b>MPS X:</b> Disk integrity step on second HDD	Repeat steps from 17 to 20 for <b>"/dev/sdb"</b> disk drive.
22. <input type="checkbox"/>	<b>MPS X:</b> 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.

S T E P #	Steps To Be Completed	Expected output/command to be executed
1. <input type="checkbox"/>	<b>MPS X:</b> Login as elapdev	<b>login: elapdev</b> <b>password: &lt;elapdev_password&gt;</b>
2. <input type="checkbox"/>	<b>MPS X:</b> Record and verify the system configuration	\$ sudo su - elapconfig

	<p>Select Option 1 from elapconfig menu.</p>	<pre> 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... </pre>
<p>3. <input type="checkbox"/></p>	<p><b>MPS X:</b> Record and verify the ntp configuration Select Option 7 from elapconfig menu and then Option 1 from ELAP Configure NTP Server Menu.</p>	<pre>\$ sudo su - elapconfig</pre>

```
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: ITHACA-A  hostid: 4b0a118d
Platform Version: 8.6.0.2.0_110.14.0
Software Version: ELAP 11.0.0.0.0_110.4.0
Wed Dec 20 06:44:37 EST 2023

/-----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

chronyserver1 10.75.124.247
```

<p>4. <input type="checkbox"/></p>	<p><b>MPS X:</b> Exit from elapconfig menu</p>	<pre> 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 ~]\$ </pre>
<p>5. <input type="checkbox"/></p>	<p><b>MPS X:</b> Record /etc/hosts configuration</p>	<pre> \$ 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 </pre>

		<pre> 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 dsmpvip-a 192.168.123.200 dsmpvip-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 chronyserver1 10.75.141.107 Floater-3 prova-ip 10.75.141.108 mate-prov provb-ip Floater-4 10.75.141.109 prov-vip </pre>
<p>6. <input type="checkbox"/></p>	<p><b>MPS X:</b> Verify and Record IPs configured on each interface</p>	<pre> \$ 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         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 </pre>

		<pre> 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-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         UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1         RX packets:12250 errors:0 dropped:0 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 </pre>
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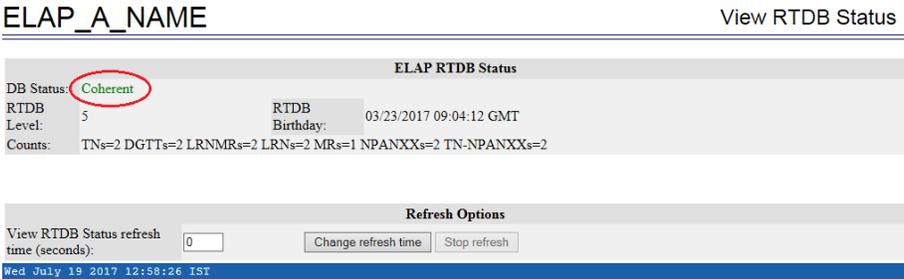
		RX bytes:106538690 (101.6 MiB) TX bytes:106538690 (101.6 MiB)  lo:1 Link encap:Local Loopback inet addr:192.168.123.100 Mask:255.255.255.0 UP LOOPBACK RUNNING MTU:65536 Metric:1
7. <input type="checkbox"/>	<b>MPS X:</b> Record EuiDB settings	<pre> \$ uiEdit "LNP_ENABLED" is set to "TRUE" "Alarms_Purged_Nb_Days" 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" "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" </pre>

		<p>"DOWNLOAD_FILE_DIR" is set to "/var/TKLC/elap/free/backup"</p> <p>"euidb_version" is set to "3"</p> <p>"LNP_NPANXX_QTY" is set to "300000"</p> <p>"LSMS_PROVISIONING" is set to "OFF"</p> <p>"ELAP_LOGGING_TIME_FORMAT" is set to "UTC"</p> <p>"MAINT_ERROR_NUM_LOGS" is set to "5"</p> <p>"UI_IP_AUTHORIZATION_ENABLED" is set to "FALSE"</p> <p>"ELAP_LOGGING_REMOTE_IP_ADDRESS" is set to ""</p> <p>"AUTO_RTDB_BKUP_DELETE_OPTION" is set to "y"</p> <p>"HSOPD_ERROR_NUM_LOGS" is set to "5"</p> <p>"TRPD_ERROR_NUM_LOGS" is set to "5"</p> <p>"apache_403_error_message" is set to "NOTICE: This workstation is not authorized to access the GUI."</p> <p>"EBDAD_ERROR_NUM_LOGS" is set to "5"</p> <p>"max_account_inactivity" is set to "0"</p> <p>"HSOPD_DEBUG_LEVEL" is set to "OFF"</p> <p>"TRPD_DEBUG_NUM_LOGS" is set to "5"</p> <p>"ELAP_LOGGING_REMOTE_PASSWORD" is set to ""</p> <p>"ELAP_B_HTTP_PORT" is set to "80"</p> <p>"MATE_MPS_HTTPS_PORT" is set to "443"</p> <p>"EBDAD_DEBUG_NUM_LOGS" is set to "5"</p> <p>"ELAP_B_PRETTY_NAME" is set to "ELAP_B_NAME"</p> <p>"HSOPD_LSMS_PROVISIONING_PORT" is set to "7483"</p> <p>"ELAP_RIDB_RELEASE" is set to "10.0.0"</p> <p>"SNAPPER_LOG_LEVEL" is set to "4"</p> <p>"AUTO_RTDB_BKUP_TYPE" is set to "local_mate"</p> <p>"PROV_ERROR_NUM_LOGS" is set to "5"</p> <p>"ELAP_A_PROV_NETWORK_IP_ADDRESS" is set to "10.75.141.107"</p> <p>"CNF_QTY_THRESHOLD_PERC" is set to "90"</p> <p>"MATE_MPS_HTTP_PORT" is set to "80"</p> <p>"passwd_reuse_limit" is set to "12"</p> <p>"apache_403_error_message_default" is set to "NOTICE: This workstation is not authorized to access the GUI."</p> <p>"HTTPS_ENABLED" is set to "Yes"</p> <p>"HSOPD_DEBUG_NUM_LOGS" is set to "5"</p> <p>"ELAP_B_DSM_MAIN_NETWORK_ADDRESS" is set to "192.168.120.200"</p> <p>"LOCAL_PROVISIONING_VIP" is set to "10.75.141.109"</p> <p>"TRPD_DEBUG_LEVEL" is set to "OFF"</p> <p>"RTDB_AUDIT" is set to "ON"</p> <p>"LNP_TN_QTY" is set to "96000000"</p> <p>"ELAP_B_GS_BANNER_PORT" is set to "8473"</p> <p>"PROV_DEBUG_LEVEL" is set to "OFF"</p> <p>"RELOAD_FLOW_CONTROL_TIME" is set to "200"</p> <p>"passwd_complexity_checking" is set to "on"</p> <p>"LNP_MR_QTY" is set to "2000000"</p> <p>"RTDBA_NUM_LOGS" is set to "5"</p> <p>"PROVISIONING_NETWORK_DEFAULT_ROUTER" is set to "10.75.141.1"</p> <p>"RIDB_LV_NAME" is set to "lnpdb"</p> <p>"ELAP_A_SUEXEC_HTTP_PORT" is set to "8001"</p> <p>"ELAP_B_SUEXEC_HTTPS_PORT" is set to "8002"</p> <p>"LNP_LRNMR_QTY" is set to "2000000"</p> <p>"ELAP_LOGGING_ENHANCEMENTS_FEATURE" is set to "OFF"</p> <p>"ELAP_A_DSM_BACKUP_NETWORK_ADDRESS" is set to "192.168.121.100"</p> <p>"HSOPD_GS_PORT" is set to "9691"</p>
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		"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. <input type="checkbox"/>	<b>MPS X:</b> Verify lnadb logical volume	\$ su - admusr \$ Password:<admusr_password> \$ sudo lvs LV VG Attr LSize Pool Origin Data% Meta% Move Log Cpy%Sync Convert lnadb vgdrbd0 owi-aos--k 2.50g mysql vgdrbd0 -wi-ao---k 6.00g rollbacksnap vgdrbd0 sri-a-s--- 2.50g lnadb 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
9. <input type="checkbox"/>	<b>MPS X:</b> 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. <input type="checkbox"/>	<b>MPS X:</b> Verify HA status	\$ hastatus; ssh mate hastatus ACTIVE STANDBY
11. <input type="checkbox"/>	<b>MPS X:</b> 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

		<pre># ID=LOGSSFTP, Action="/usr/TKLC/elap/bin/transferLogsToRemote", Sched="hourly,1,00" 00 * * * * elapdev /usr/TKLC/elap/bin/transferLogsToRemote # ENDTYPE  # BEGTTYPE=AUTOBKPNOTCFD # ID=1, Action="/usr/TKLC/elap/bin/raiseAlarmAutoBkpNotConfigd.pl", Sched="minutely,5" */5 * * * * elapdev /usr/TKLC/elap/bin/raiseAlarmAutoBkpNotConfigd.pl # ENDTYPE  # BEGTTYPE=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  # BEGTTYPE=HTT*PSDISABLE # ID=1, Action="/usr/TKLC/elap/bin/raiseBnrMsgHttpsDisable.pl", Sched="hourly,12,00" 00 */12 * * * elapdev /usr/TKLC/elap/bin/raiseBnrMsgHttpsDisable.pl # ENDTYPE</pre>
12. <input type="checkbox"/>	<p><b>MPS X:</b> 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 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/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 tpdProvd:x:5010:5010:TPD Provisioning Daemon:/home/tpdProvd:/usr/bin/false</pre>

		<pre> 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 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 </pre>
13. <input type="checkbox"/>	<p><b>MPS X:</b> Backup the EuiDB</p>	<pre> \$ 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 </pre>

		<pre> 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... </pre>
14. <input type="checkbox"/>	<b>MPS X:</b> Verify backups are being taken properly	<pre> \$ 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 </pre>
15. <input type="checkbox"/>	<b>MPS X:</b> Gather application log files	<pre> \$ 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 </pre>
16. <input type="checkbox"/>	<b>MPS X:</b> Gather system log files	<pre> \$ su - admusr \$ Password: &lt;admusr_password&gt; \$ sudo /usr/TKLC/plat/sbin/saveLogs_plat Logs will be save in /tmp directory /tmp/saveLogs_plat.Natal-A.10689.tar.bz2  \$ exit </pre>
17. <input type="checkbox"/>	<b>MPS X:</b> 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.	 <p>The screenshot shows the 'ELAP RTDB Status' page. At the top right is a link 'View RTDB Status'. The main content area is titled 'ELAP RTDB Status' and contains the following information:</p> <ul style="list-style-type: none"> <li>DB Status: <b>Coherent</b> (circled in red)</li> <li>RTDB Level: 5</li> <li>RTDB Birthday: 03/23/2017 09:04:12 GMT</li> <li>Counts: TNs=2 DGTs=2 LRNMRs=2 LRNs=2 MRs=1 NPANXXs=2 TN-NPANXXs=2</li> </ul> <p>Below this is a 'Refresh Options' section with a 'View RTDB Status refresh time (seconds):' field set to 0, and buttons for 'Change refresh time' and 'Stop refresh'. At the bottom, there is a timestamp 'Wed July 19 2017 12:58:26 IST' and a copyright notice 'Copyright © 2015-2016, Oracle and/or its affiliates. All rights reserved.'</p>

<p>18. <input type="checkbox"/></p>	<p><b>MPS X:</b> Verify DMS DB levels matched and DB status is coherent on all STP cards From ELAP GUI banner, click on notepad icon beside EAGLE.</p>	
<p>19. <input type="checkbox"/></p>	<p><b>MPS X:</b> Verify DB status on DSM cards and that their provisioning system is taking updates</p>	<p>Login to EAGLE and run command: <b>rept-stat-db:display=all</b></p> <p>Command Accepted - Processing</p> <pre>eagle2 17-07-27 13:54:12 EST EAGLE 46.6.0.0-71.5.0 rept-stat-db:display=all Command entered at terminal #2. ; eagle2 17-07-27 13:53:49 EST EAGLE 46.6.0.0-71.5.0 eagle2 17-07-27 13:54:12 EST EAGLE 46.6.0.0-71.5.0 DATABASE STATUS: &gt;&gt; OK &lt;&lt;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 - 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 - - - - -</pre>

		<pre> 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 ----- VSCCP 1217 Y 17-03-23 09:04:12 17 - 1d 1h 50m ; </pre>
20. <input type="checkbox"/>	<p><b>MPS X:</b> Verify alarms present on STP cards</p>	<pre> 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. ; </pre>

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## 5 My Oracle Support

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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