

**Oracle® Communications  
EAGLE**

**System Health Check Guide**

Release 45.0 and later

**F87795-01**

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**ORACLE®**

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**CAUTION: Use only the guide downloaded from the Oracle Technology Network (OTN) (<http://www.oracle.com/technetwork/indexes/documentation/oracle-comms-tekelec-2136003.html>). Before upgrading your system, access the My Oracle Support web portal (<https://support.oracle.com>) and review any Knowledge Alerts that may be related to the System Health Check or the Upgrade.**

Refer to Appendix A for instructions on accessing My Oracle Support.

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# 1. INTRODUCTION

## 1.1 Purpose and Scope

This document describes Oracle's recommended methods and procedures to be used to evaluate Site and STP data retrieved from in-service EAGLE STP. This document is intended for use for system running EAGLE releases 45.0 or later as well as system being upgrade to those releases. The intended audience for this document is EAGLE® Engineering, Documentation, Customer Service personnel and any craft person who has completed EAGLE training and is familiar with the EAGLE interface. The scope of this document is specifically to collect data to determine the health of an in-service EAGLE prior to a software upgrade or an extension shelf installation. In general, this document may be used for an instance where the health determination of the EAGLE is required (i.e., troubleshooting).

This document should be considered the next volume to 909-0656-001; see reference [2]. The former document covers EAGLE releases 31.6 to 44.0, where this document starts at release 45.0 and will continue for future releases. The initial content of this document is equivalent to the last version of that previous document with the additions of updates to support EAGLE Release 45.0. In release 45.0, the legacy GPSM/TDM hardware is no longer supported as the MASP, so this document does not have to support both hardware setup and removes complexity of several steps that had to support both platforms.

**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 personnel.**

Analysis of data captured during this procedure is out of the scope of this document. Analysis of the data is covered in reference [1].

## 1.2 References

- [1] *Health Check Analysis Work Instruction*, WI005139, latest revision, Tekelec
- [2] *EAGLE 5 ISS Releases 31.6 and later System Healthcheck Document*, 909-0656-001, Revision P, Version 7.2, Tekelec
- [3] *TEKELEC Acronym Guide*, MS005077.doc, current revision
- [4] *Recommended Ethernet Port Settings for EAGLE SM Cards and EPAP Switch Ports*, KM Alert Doc 2275062.1, current revision

## 1.3 Acronyms

**Table 1. Acronyms**

<b>Acronym</b>	<b>Definition</b>
AST	Associate State for Maintenance
BITS	Building Integrated Timing System
DPC	Destination Point Code
DSM	Database Services Module
E5-OAM	EAGLE Operation, Admission, & Maintenance
E5-MASP	Dual-card HW assembly composed of E5-MCAP and E5-TDM
FOA	First Office Application
GPL	Generic Program Load
IMT	Interprocessor Message Transport
IS-ANR	In Service - Abnormal
IS-NR	In Service - Normal
KSR terminal	Keyboard Send Receive terminal
Legacy MASP	System using GPSM-II\TDM card set (obsolete in release 45.0)
MASP	Maintenance and Administration Subsystem Processor
MCP	Measurements Collector/Poller
PST	Primary State for Maintenance
SAK	Software Access Key
SCCP	Signaling Connection Control Part
SLIC	Service and Link Interface Card
UHC	Upgrade Health Check

For additional Acronyms; refer to internal references [3] in section 1.2

## 2. GENERAL DESCRIPTION

The health check is to be performed as directed to by software release upgrade procedures, extension shelf installation MOPs, or My Oracle Support personnel. It may also be utilized during FOA, hardware installations, or customer problem analysis. This document outlines a series of commands and procedures to be performed on the system. With each command, there is a description of the command, expected command output, and what problems may be detected with the command. If the desired goal/output is not obtained by executing the command, contact My Oracle Support (MOS) (<https://support.oracle.com/>) to investigate the deficiencies. The entire set of commands should be executed each time in order to obtain a complete system status and configuration. Some of the commands may not be supported on all EAGLE releases, resulting in a command rejection. These rejected commands will not harm the system in any way and will be verified during the analysis of the captured data. The goal of this health check procedure is to be non-intrusive. Only spare equipment swap-out and the IMT bus testing are intrusive and should be executed during a maintenance window. The procedures that are intrusive are highlighted in the table in Section 2.3.

### 2.1 Recommendations for Performing Health Check

The commands in this document should be executed during periods of FOA, new software or hardware installations, upgrades, or customer problems.

**Note: EAGLE Release 47.0 does not support the DEIR feature. Therefore, do not upgrade to EAGLE 47.0 in case you are using this functionality. The DEIR support is going to be available in future releases.**

#### 2.1.1 Frequency of Health Check

The frequency of executing these commands should be determined in upgrade execution procedures, extension shelf installation MOP, and the release FOA plan/strategy developed by Oracle. For software upgrade, three health checks are executed. The recommended time frames of these checks are the following: two weeks prior (UHC1), forty-eight hours prior (UHC2), and seventy-two hours following an upgrade (UHC3). For extension shelf, one health check is executed prior to installation. The exact time is based on availability of personnel and scheduled maintenance windows.

#### 2.1.2 Data Capture

During the execution of this procedure, some method of data capture is necessary for proper analysis and for future reference. If a terminal emulation application is being used which supports capturing, the application should be enabled. A KSR or printer terminal may be selected as the capture terminal since output from the user terminal can be echoed to those terminal types. If no other method is available, input and output from the user terminal can be echoed to a configured printer. A capture file must be generated so a comparison can be made with other capture files from the same node to determine if any system degradation occurred between the two capture periods. Some of the procedures explicitly identify anomalies to be checked, if present, these occurrences should be noted. **After conclusion of the Health Check procedures the capture file and any notes are to be sent to Oracle for review. If the Health Check is being performed in preparation for an upgrade, contact My Oracle Support upon completion to verify that the upgrade can be performed after analysis of the capture file**

#### 2.1.3 Step Check-Off and Recording Configuration

All steps in this Health Check are to be initialed by the person performing the step. Blanks have been provided under each step number for recording the initials. Also certain steps request recording of data, which is specific to the configuration of the switch being checked.

**Note that the Health Check may take several hours to complete depending on the size of the system, the part number and version of MASPs in use, and user experience.**

### 2.2 Health Check Record

Each time the System Health Check has been completed, record the date, the reason for the health check (e.g., upgrade preparation, new installation, post-upgrade verification, etc.) and record which procedure passed/failed in Table 2.

**Table 2. Health Check Record**

DATE	Reason for running health check	List any procedures that failed (Procedure number and name)	Technician Signature
	Upgrade HC #1		
	Upgrade HC #2		
	Upgrade HC #3		
	Extension Shelf HC		

### 2.3 Health Check Type

The following table lists the procedures to be executed depending on the type of health check being performed.

**Table 3. Health Check Type Procedures**

Procedure	Non-Intrusive Upgrade (UHC1, UHC3)	Intrusive Upgrade (UHC2)	Extension Shelf, New Product
3.2 Health Check Preparation	√	√	√
3.3 General System Status	√	√	√
3.4 Report System Troubles	√	√	√
3.5 Verifying Database Status	√	√	n/a
3.6 Verifying GPLs	√	√	n/a
3.7 Retrieving Obituaries	√	√	√
3.8 Verify SCCP Load	√	√	n/a
3.9 Verifying LNP and LSMS	√	√	n/a
3.10 Verifying SEAS	√	√	n/a
3.11 Verifying optional features	√	√	√
3.12 Verifying IP Signaling Status	√	√	√
3.13 Verifying EROUTE	√	√	√
3.14 Verifying IMT Status	√	√	√
3.15 Retrieving Trouble Data	√	√	√
3.16 Verifying Clock Status	√	√	√
3.17 Verifying MPS (See note 1)	√	√	n/a
3.18 Verify Source Database	n/a	√	n/a
3.19 Verifying Fixed and Removable Media (Part 1)	n/a	√	n/a
3.20 Testing IMT Status	n/a	√	√
3.21 Verifying Fixed and Removable Media (Part 2)	n/a	√	n/a
3.22 Table Capacity Status	√	√	n/a
3.23 Health Check Conclusion	√	√	√

**Note 1:** Intrusive procedures are shaded.



### 3. PROCEDURES

#### 3.1 Pre-Health Check Requirements

##### Procedure 1: Verifying Pre-Health Check Requirements

<b>S T E P #</b>	<p>This procedure verifies that all pre-health check requirements have been met.</p> <p>Check off (✓) each step as it is completed. Boxes have been provided for this purpose under each step number.</p> <p>Should THIS PROCEDURE FAIL, Contact My Oracle Support AND ASK FOR <b>HEALTH CHECK ASSISTANCE</b>.</p>	
<b>1</b> <input type="checkbox"/>	Complete Pre-Health Check tasks	All applicable tasks in Table 4 must be completed before continuing.

**Table 4. Pre-Health Check Requirements**

✓	<b>Tasks to be completed prior to Health Check execution</b>	
	For Health Check #2 - Verify that on-site personnel are available.	
	For Health Check #2 – Verify that Upgrade media is on-site or Upgrade target release has been downloaded to disk. Please reference Upgrade document Appendix B for these procedures.	
	Verify that all terminal and modem recourses are available for remote access.	
	An automatic rollback (for VxWorks 6.9-based to VxWorks 6.4-based flash GPLs) would be done via a special source OAM GPL. Therefore, make sure to verify that the Rollback Source Release GPL media is available.	
	<p><b>Note:</b></p> <ul style="list-style-type: none"> <li>The automated rollback procedure is required only when upgrading to EAGLE 47.0.</li> <li>The special source OAM GPLs are part of the EAGLE 47.0 download package on OSDC.</li> </ul>	

<b>2</b> <input type="checkbox"/>	Issue the command to display GPL status.	<b>REPT-STAT-GPL:GPL=OAMHC</b>
<b>3</b> <input type="checkbox"/>	Response to GPL status command is displayed.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE5 XX.X.X-YY.yy.y GPL Auditing ON  GPL      CARD      RUNNING      APPROVED      TRIAL OAMHC    1113      135-016-000  135-016-000  135-016-000  * OAMHC    1115      135-016-000  135-016-000  135-016-000  *</pre>
<input type="checkbox"/>	If either 1113 or 1115 are not displayed, this procedure <b>fails</b> . Otherwise, continue to next procedure.	Command Completed. ;

## 3.2 Health Check Preparation

### Procedure 2: Health Check Preparation

STEP #		
1	This procedure starts capturing all commands and command output to a printer or other terminal configured to capture data. See Section 2.1.2 for recommendation on data capture.	
1	Issue the command to log in to the EAGLE terminal.	<code>login:uid=XXXXXX</code> (where XXXXXX is your login ID)
2	Response to login command is displayed.	<code>eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE5 XX.x.x-YY.yy.y</code> User logged in on terminal X ;
3	Issue the command to retrieve terminal status.	<code>rtrv-trm</code>
4	Response to retrieve terminal command is displayed.  Record the numbers that appear in the TRM column below corresponding to the terminal port being used to capture, SEAS terminals, and user terminal. In this example, terminal 12 is a printer, terminal 10 is the user's terminal, and terminal 17 is the SEAS. Refer to Section 2.1.2 for information on how to set up terminals for data capture.  CAPTURE _____ SEAS _____ USER _____  If not already activated, start mechanism to capture data. Refer to Section 2.1.2 for recommendation on data capture.  Record the initial output group configuration for the user's and capture terminals. Also record user's TMOUT value  Verify that all terminal groups for the printers show YES. If so, go to step 7. If any groups show 'NO', continue to step 5.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE5 XX.x.x-YY.yy.y TRM  TYPE  COMM  FC  TMOUT  MXINV  DURAL 1    NONE  9600  -7-E-1 SW  30  5  00:01:00 2    NONE  9600  -7-E-1 SW  30  5  00:01:00 3    NONE  9600  -7-E-1 SW  30  5  00:01:00 4    NONE  9600  -7-E-1 SW  30  5  00:01:00 5    NONE  9600  -7-E-1 SW  30  5  00:01:00 6    NONE  9600  -7-E-1 SW  30  5  00:01:00 7    NONE  9600  -7-E-1 SW  30  5  00:01:00 8    NONE  9600  -7-E-1 SW  30  5  00:01:00 9    NONE  9600  -7-E-1 SW  30  5  00:01:00 10   VT320  9600  -7-E-1 SW  30  5  00:01:00 11   NONE  9600  -7-E-1 SW  30  5  00:01:00 12   PRINTER 9600  -7-E-1 SW  30  5  00:01:00 13   VT320  9600  -7-E-1 SW  30  5  00:01:00 14   NONE  9600  -7-E-1 SW  30  5  00:01:00 15   NONE  9600  -7-E-1 SW  30  5  00:01:00 16   NONE  9600  -7-E-1 SW  30  5  00:01:00  TRM  TYPE  LOC  TMOUT  MXINV  DURAL  SECURE 17   SEAS  1108  30  5  00:01:00  no 18   TELNET 1108  30  5  00:01:00  no 19   TELNET 1108  30  5  00:01:00  no 20   TELNET 1108  30  5  00:01:00  no 21   TELNET 1108  30  5  00:01:00  no 22   TELNET 1108  30  5  00:01:00  no 23   TELNET 1108  30  5  00:01:00  no 24   TELNET 1108  30  5  00:01:00  no  TRM  TRAF  LINK  SA  SYS  PU  DB 1    YES  YES  YES  YES  YES  YES 2    NO   NO   NO  NO  NO  NO 3    NO   NO   NO  NO  NO  NO 4    NO   NO   NO  NO  NO  NO 5    NO   NO   NO  NO  NO  NO 6    NO   NO   NO  NO  NO  NO 7    NO   NO   NO  NO  NO  NO 8    NO   NO   NO  NO  NO  NO 9    YES  YES  YES  YES  YES  YES 10   YES  YES  YES  YES  YES  YES 11   NO   NO   NO  NO  NO  NO 12   YES  YES  YES  YES  NO  NO 13   YES  YES  YES  YES  YES  YES 14   NO   NO   NO  NO  NO  NO 15   NO   NO   NO  NO  NO  NO 16   NO   NO   NO  NO  NO  NO 17   NO   NO   NO  NO  NO  NO 18   NO   NO   NO  NO  NO  NO 19   NO   NO   NO  NO  NO  NO 20   NO   NO   NO  NO  NO  NO 21   NO   NO   NO  NO  NO  NO 22   NO   NO   NO  NO  NO  NO 23   NO   NO   NO  NO  NO  NO 24   NO   NO   NO  NO  NO  NO  ; USER  _____       TMOUT  _____ CAP   _____</pre>
5	Issue the command to change all terminal groups.	<code>chg-trm:trm=P:all=yes</code> (where P is the location of the capture terminal recorded in step 4)

**Procedure 2: Health Check Preparation**

<input type="checkbox"/>   	6 Response to change terminal command is displayed.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE5 XX.x.x-YY.yy.y chg-trm:trm=P:all=yes Command entered at terminal #X. ;  eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE5 XX.x.x-YY.yy.y CHG-TRM: MASP A - COMPLTD ;</pre>																																																									
<input type="checkbox"/>	7 Issue the command to activate capture.	<p><b>act-echo:trm=P</b> <i>(where P is a capture terminal port that was selected in step 4)</i></p>																																																									
<input type="checkbox"/>  <input type="checkbox"/>	8 Response to activate command is displayed.  Verify that the capture terminal is correctly collecting data.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE5 XX.x.x-YY.yy.y Scroll Area Output will be echoed to Terminal X. ; (Caution: loss of output may occur if too many terminals are echoed)</pre>																																																									
<input type="checkbox"/>	9 Issue the command to change the terminal groups to the optimal settings.	<p><b>chg-trm:trm=X:all=no:tmout=0:sa=yes:sys=yes:db=yes:dbg=yes</b> <i>(where X is the location of the user's terminal recorded in step 4.)</i></p>																																																									
<input type="checkbox"/>   	10 Response to change terminal command is displayed.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE5 XX.x.x-YY.yy.y chg-trm:trm=X:all=no:tmout=0:sa=yes:sys=yes:db=yes:dbg=yes Command entered at terminal #X. ;  eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE5 XX.x.x-YY.yy.y CHG-TRM: MASP A - COMPLTD ;</pre>																																																									
<input type="checkbox"/>	11 Issue the command to display optional features	<p><b>rtrv-feat</b></p>																																																									
<input type="checkbox"/>  <input type="checkbox"/>	12 Response to retrieve feature command is displayed.  Record the on/off status of the features in the following table.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE5 XX.x.x-YY.yy.y EAGLE FEATURE LIST  GTT      = on      GWS      = on      NRT      = off X25G    = off     LAN      = on      CRMD     = off SEAS    = off     LFS      = off     MTPRS    = off FAN     = on      DSTN5000 = off     WNP      = off CNCF    = off     TLNP     = off     SCCPCNV  = off TCAPCNV = off     IPISUP   = off     X252000  = off PLNP    = off     NCR      = off     ITUMTPRS = on SLSOCB  = off     EGTT     = on      VGTT     = on MPC     = on      ITUDUPPC = on      MEASPLAT = on TSCSYNC = off     E5IS     = off</pre>																																																									
<p><b>Note:</b> The following table lists all possible feature bits. Feature bits differ between releases, so one may appear in this table that will not exist on a particular EAGLE.</p>																																																											
<table border="1"> <tr> <td><b>GTT</b></td> <td>ON / OFF</td> <td><b>GWS</b></td> <td>ON / OFF</td> <td><b>NRT</b></td> <td>ON / OFF</td> </tr> <tr> <td><b>LAN</b></td> <td>ON / OFF</td> <td><b>CRMD</b></td> <td>ON / OFF</td> <td><b>LFS</b></td> <td>ON / OFF</td> </tr> <tr> <td><b>MTPRS</b></td> <td>ON / OFF</td> <td><b>FAN</b></td> <td>ON / OFF</td> <td><b>DSTN5000</b></td> <td>ON / OFF</td> </tr> <tr> <td><b>WNP</b></td> <td>ON / OFF</td> <td><b>CNCF</b></td> <td>ON / OFF</td> <td><b>TLNP</b></td> <td>ON / OFF</td> </tr> <tr> <td><b>SCCPCNV</b></td> <td>ON / OFF</td> <td><b>TCAPCNV</b></td> <td>ON / OFF</td> <td><b>IPISUP</b></td> <td>ON / OFF</td> </tr> <tr> <td><b>PLNP</b></td> <td>ON / OFF</td> <td><b>NCR</b></td> <td>ON / OFF</td> <td><b>ITUMTPRS</b></td> <td>ON / OFF</td> </tr> <tr> <td><b>SLSOCB</b></td> <td>ON / OFF</td> <td><b>EGTT</b></td> <td>ON / OFF</td> <td><b>VGTT</b></td> <td>ON / OFF</td> </tr> <tr> <td><b>MPC</b></td> <td>ON / OFF</td> <td><b>ITUDUPPC</b></td> <td>ON / OFF</td> <td><b>MEASPLAT</b></td> <td>ON / OFF</td> </tr> <tr> <td><b>TSCSYNC</b></td> <td>ON / OFF</td> <td><b>E5IS</b></td> <td>ON / OFF</td> <td></td> <td></td> </tr> </table>						<b>GTT</b>	ON / OFF	<b>GWS</b>	ON / OFF	<b>NRT</b>	ON / OFF	<b>LAN</b>	ON / OFF	<b>CRMD</b>	ON / OFF	<b>LFS</b>	ON / OFF	<b>MTPRS</b>	ON / OFF	<b>FAN</b>	ON / OFF	<b>DSTN5000</b>	ON / OFF	<b>WNP</b>	ON / OFF	<b>CNCF</b>	ON / OFF	<b>TLNP</b>	ON / OFF	<b>SCCPCNV</b>	ON / OFF	<b>TCAPCNV</b>	ON / OFF	<b>IPISUP</b>	ON / OFF	<b>PLNP</b>	ON / OFF	<b>NCR</b>	ON / OFF	<b>ITUMTPRS</b>	ON / OFF	<b>SLSOCB</b>	ON / OFF	<b>EGTT</b>	ON / OFF	<b>VGTT</b>	ON / OFF	<b>MPC</b>	ON / OFF	<b>ITUDUPPC</b>	ON / OFF	<b>MEASPLAT</b>	ON / OFF	<b>TSCSYNC</b>	ON / OFF	<b>E5IS</b>	ON / OFF		
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<b>LAN</b>	ON / OFF	<b>CRMD</b>	ON / OFF	<b>LFS</b>	ON / OFF																																																						
<b>MTPRS</b>	ON / OFF	<b>FAN</b>	ON / OFF	<b>DSTN5000</b>	ON / OFF																																																						
<b>WNP</b>	ON / OFF	<b>CNCF</b>	ON / OFF	<b>TLNP</b>	ON / OFF																																																						
<b>SCCPCNV</b>	ON / OFF	<b>TCAPCNV</b>	ON / OFF	<b>IPISUP</b>	ON / OFF																																																						
<b>PLNP</b>	ON / OFF	<b>NCR</b>	ON / OFF	<b>ITUMTPRS</b>	ON / OFF																																																						
<b>SLSOCB</b>	ON / OFF	<b>EGTT</b>	ON / OFF	<b>VGTT</b>	ON / OFF																																																						
<b>MPC</b>	ON / OFF	<b>ITUDUPPC</b>	ON / OFF	<b>MEASPLAT</b>	ON / OFF																																																						
<b>TSCSYNC</b>	ON / OFF	<b>E5IS</b>	ON / OFF																																																								

## Procedure 2: Health Check Preparation

<p><b>13</b> <input type="checkbox"/></p>	<p>Issue the command to display feature keys that have been enabled.</p>	<p><b>rtrv-ctrl-feat</b></p>
<p><b>14</b> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>	<p>Response to the command is displayed.</p> <p>Record if LNP ported TN feature key and LNP ELAP Configuration is on and displayed as well as the current quantity<sup>1</sup>. Also record whether the EIR feature is on:</p> <p>LNP ported TN: <u>ON / OFF</u> Quantity: _____ LNP ELAP Config: ON/OFF EIR: ON/OFF</p> <p>Record if TPS feature key Configuration is on and displayed as well as the current quantity. Also record whether any temporary TPS keys are displayed as enabled. Verify no temporary TPS keys are enabled.</p> <p>TPS Status: <u>ON / OFF</u> Quantity: _____ Temporary TPS Enabled: YES/NO</p> <p>If upgrading to Rel 46.4 or higher &amp; the source release is 46.3 or prior, the HIPR2 High Rate Mode must be on. Otherwise, this procedure fails.<sup>2</sup></p>	<pre>rtrv-ctrl-feat Command entered at terminal #X.  ;  eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE XX.X.X.X-YY.yy.y The following features have been permanently enabled: Feature Name      Partnum  Status  Quantity TPS                893000101 on      100 EAGLE Product     893007201 on      ---- LNP ELAP Configuration 893010901 on      ---- LNP ported TNS    893011036 on     384000000 EIR                893012301 on      ---- HIPR2 High Rate Mode 893020101 on      ---- G-Flex            893021901 on      ---- EPAP Data Split   893039801 on      ----  The following features have been temporarily enabled:  Feature Name      Partnum  Status  Quantity  Trial Period Zero entries found.  The following features have expired temporary keys:  Feature Name      Partnum Zero entries found.</pre>
<p><b>15</b> <input type="checkbox"/></p>	<p>Issue the command to retrieve IP security feature key</p>	<p><b>rtrv-ctrl-feat:partnum=893400001</b></p>
<p><b>16</b> <input type="checkbox"/> <input type="checkbox"/></p>	<p>Response to retrieve command is displayed.</p> <p>Note any IP Security Issue that is detected.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE XX.X.X.X-YY.yy.y The following features have been enabled:  Feature Name      Partnum  Status  Quantity EAGLE OA&amp;M IP Security 893400001 off  ----  ***** *****      WARNING IP SECURITY ISSUE DETECTED      ***** ***** ** EAGLE OA&amp;M IP Security FAK is not enabled and ON      ** ** The SECU_DFLT parameter SSH is set to OFF             ** ** One or more of the FTP servers has SECURITY parameter to OFF ** *****</pre>
<p><b>17</b> <input type="checkbox"/></p>	<p>Issue the command to retrieve serial number for this node.</p>	<p><b>rtrv-serial-num</b></p>

<sup>1</sup> If feature access key outputs “off” for status or does not appear in output the feature is OFF.

<sup>2</sup> If the HIPR2-High-Rate-Mode feature (partnum=893020101) is not activated, then steps must be followed to ensure that the cables have been properly installed and operation of IMT buses at 2.5Gbps is verified. See "Cabling" in Hardware Reference and "Activating the HIPR2 High Rate Mode Feature" in Database Administration - System Management for more information. This activity needs to be performed during a maintenance window.

If the EAGLE is currently running release 46.2, then instruction on page <http://www.oracle.com/us/support/licencodes/tekelec/index.html> can be followed to obtain the FAK for "HIPR2 High Rate Mode" (partnum=893020101) feature.

## Procedure 2: Health Check Preparation

<b>18</b> <input type="checkbox"/>	Response to retrieve command is displayed.	eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE XX.X.X.X-YY.yy.y System serial number = nt00001659  System serial number is locked.  ;
<b>19</b> <input type="checkbox"/>	All steps in this procedure were completed.	

### 3.3 General System Status

#### Procedure 3: Determining General System Status

<p><b>S</b> <b>T</b> <b>E</b> <b>P</b> <b>#</b></p>	<p>This procedure examines the general status of all cards in the system by reporting card and system status. Look for unexplained alarms, or other entities listed as 'other'. Any system entities listed as 'other' should be documented, investigated, and explained. Look for unexplained card PST and SST states (i.e. not IS-NR/Active).</p>	
<p><b>1</b> <input type="checkbox"/></p>	<p>Issue the command to display IMT errors.</p>	<pre>rept-imt-1v11:r=summary:sloc=1201:eloc=1115</pre>
<p><b>2</b> <input type="checkbox"/> <input type="checkbox"/></p>	<p>Response to IMT report command is displayed.</p> <p>If UHC2 is being executed, verify that large values are not displayed in any highlighted columns.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE5 XX.x.x-YY.yy.y ===== SUMMARY REPORT: Totals accumulated from all requested cards  Count                               Bus A Value   Bus B Value -----                               - Transmit Packet                       0M            0M Transmit Byte                          0M            0M Receive Packet                         0M            0M Receive Byte                           0M            0M Receive Packet with CRC Error          0              0 Receive Packet with Format Error        0              0 Receive Packet with Invalid Length      0              0 Primary Control Receive Error          0              0 Primary Control Transmit Error         0              0 Primary Control Sanity Error           0              0 Violation Error                        0              0 CPU Receive FIFO Full                  0              0 IMT Receive FIFO Half Full             0              0 CPU Receive FIFO Half Full             0              0 DMA Terminal Count Interrupt           0              0 MSU Retransmitted                     0              0 MSU Safety Packet                      0              0 ASU Safety Packet                      0              0 TSU Safety Packet                      0              0 IMT Receive FIFO Full                  0              0 SSU Safety Packet                      0              0 ----- ;END OF REPORT ; ;</pre>
<p><b>3</b> <input type="checkbox"/></p>	<p>Issue the status command for the MUX cards.</p>	<pre>rept-stat-mux</pre>
<p><b>4</b> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>	<p>Response to MUX status command is displayed.</p> <p>Verify that all cards are IS-NR.</p> <p>Record the types of MUX cards displayed (circle all that are applicable):</p> <p>HIPR HIPR2</p> <p>If upgrade to Rel 46.4 or higher &amp; the source release is 46.3 or prior, then all cards must show HIGH in the BITRATE (ACT) column. Otherwise, this procedure fails. <sup>3</sup></p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE5 XX.x.x-YY.yy.y CARD  TYPE  PST      SST      AST      BITRATE  BITRATE  BERT       (OPER) (ACT)   STATUS ----- 1109  HIPR2  IS-NR    Active   -----  LOW      LOW      UNKNOWN 1110  HIPR2  IS-NR    Active   -----  LOW      LOW      UNKNOWN 1209  HIPR2  IS-NR    Active   -----  LOW      LOW      UNKNOWN 1210  HIPR2  IS-NR    Active   -----  LOW      LOW      UNKNOWN 1309  HIPR2  IS-NR    Active   -----  LOW      LOW      UNKNOWN 1310  HIPR2  IS-NR    Active   -----  LOW      LOW      UNKNOWN Command Completed. ; ;</pre>

<sup>3</sup> If the REPT-STAT-MUX shows BITRATE (ACT) as LOW, then steps must be followed to ensure that the cables have been properly installed and operation of IMT buses at 2.5Gbps is verified. See "Cabling" in Hardware Reference and "Activating the HIPR2 High Rate Mode Feature" in Database Administration - System Management for more information. This activity needs to be performed during a maintenance window.

**Procedure 3: Determining General System Status**

<p><b>5</b> <input type="checkbox"/></p>	<p>Issue the report IMT information command.  Repeat for all MUX types recorded in Step 4.</p>	<p><b>rept-imt-info:report=xxxerr</b>  <i>(where report=hiprerr if HIPR cards were detected in step 4; report=hipr2err is HIPR2 cards were detected in step 4.)</i></p>
<p><b>6</b> <input type="checkbox"/></p>	<p>Response to report IMT information command is displayed.  Note: Output abridged for brevity, Actual output varies based on software release and card type.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y XXXX Summary Report: Summed across all requested cards for each bucket XXXX Hourly Bucket Statistics  ===== Bucket Low Speed Statistic          BUS A Value  BUS B Value ----- XX  IMT Rx Packet CRC Error          0             0     IMT Rx Packet Format Error        0             0     IMT Rx Violation Error            0             0     IMT Rx Command Error              0             0     IMT Rx FIFO Full                   0             0     IMT Rx FIFO Half Full              0             0     IMT Tx FIFO Full                   0             0     IMT Tx FIFO Half Full              1             0  High Speed Statistic                BUS A Value  BUS B Value -----     IMT Rx Packet CRC Error           0             0     IMT Rx Disparity Error             0             0     IMT Rx Sync Lost Error             0             0     IMT Rx Code Word Error            0             0     CPU Rx FIFO Full                   0             0     CPU Rx FIFO Half Full              0             0     CPU Rx FIFO Empty Before SOM       0             0     CPU Rx FIFO Empty Before EOM       0             0     CPU Rx Packet SOM Before EOM       0             0     CPU Rx Packet CRC Error           0             0     DMA terminal count                  0             0     CPU Tx Buffer EOB                    0             0     CPU Tx Buffer Full                  0             0     CPU Tx Buffer Half Full             9             9     IMT Bypass FIFO Full               0             0     IMT Bypass FIFO Half Full          0             0     IMT Rx FIFO Full                   0             0     IMT Rx FIFO Half Full              0             0  Misc Speed Statistic                BUS A Value  BUS B Value ----- Shelf ID UART Framing Error           0             0 Shelf ID UART Overrun Error           0             0 ; </pre>
<p><b>7</b> <input type="checkbox"/></p>	<p>Issue the command to clear IMT errors.</p>	<p><b>clr-imt-stats:all=yes</b></p>
<p><b>8</b> <input type="checkbox"/></p>	<p>Response to clear IMT stats command is displayed.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y clr-imt-stats:all=yes Command entered at terminal #X. ; Eaglestp 98-03-09 14:09:41 EST Re1 XX.X.X-x.x.x Clear IMT Statistics command(s) issued... ; </pre>

**Procedure 3: Determining General System Status**

<p><b>9</b> <input type="checkbox"/></p>	<p>Issue the command to report system status.</p>	<p><b>rept-stat-sys</b></p>
<p><b>10</b> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>	<p>Response to system status command is displayed.</p> <p>Record the Software Release: REL. _____</p> <p>Record any card types that are not IS-NR.</p> <p>Investigate and record cards whose status cannot be explained. Card Type: _____ Card Type: _____</p> <p>Record the number of IS-NR SS7IPGW and IPGWI cards. Verify the IP System is not deploying both SS7IPGW and IPGWI Cards by ensuring either SS7IPGW or IPGWI has 0 cards IS-NR.</p> <p>SS7IPGW Cards: _____ IPGWI Cards: _____</p>	<pre>eaglestp YY-MM-DD hh:mm:ss EST PPP XX.X.X-x.x.x MAINTENANCE STATUS REPORT Maintenance Baseline established. Routing Baseline established. SCCP Baseline established. ALARMS:      CRIT= 0      MAJR= X      MINR= X      INH= 0 OAM 1113     IS-NR      Standby      INH= 0 OAM 1115     IS-NR      Active       INH= 0 LIM CARD    IS-NR= X      Other= X      INH= 0 X25 CARD    IS-NR= X      Other= X      INH= 0 SCCP CARD    IS-NR= X      Other= X      INH= 0 GLS CARD    IS-NR= X      Other= X      INH= 0 SS7IPGW CARD IS-NR= X      Other= X      INH= 0 IPGWI CARD  IS-NR= X      Other= X      INH= 0 CLOCK       IS-NR= X      Other= X      INH= 0 IMT         IS-NR= X      Other= X      INH= 0 SLK         IS-NR= XX     Other= X      INH= 0 DLK         IS-NR= X      Other= X      INH= 0 LINK SET    IS-NR= XX     Other= X      INH= 0 SS7 DPC     IS-NR= XX     Other= X X25 DPC     IS-NR= X      Other= X CLUST DPC   IS-NR= X      Other= X XLIST DPC   IS-NR= X      Other= X DPC SS      Actv = X      Other= X SEAS SS     IS-NR= X      Other= X SEAS X25    IS-NR= X      Other= X      INH= 0 LSMS SS     IS-NR= X      Other= X LSMS Q.3    IS-NR= X      Other= X      INH= 0 TERMINAL    IS-NR= X      Other= XX     INH= 0 Command Completed.</pre>
<p><b>11</b> <input type="checkbox"/></p>	<p>Issue the command to report signaling link status.</p>	<p><b>rept-stat-slk</b></p>
<p><b>12</b> <input type="checkbox"/></p>	<p>Response to report signaling links status command is displayed.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss EST PPP XX.X.X-x.x.x SLK  LSN      CLLI      PST      SST      AST 1201,A 1s1      ----- IS-NR     Avail     ----- 1201,B 1s4      ----- OOS-MT    Unavail   ----- 1202,A 1s1      ----- IS-NR     Avail     ----- 1202,B 1s1      ----- IS-NR     Avail     ----- 1203,A 1s1      ----- IS-NR     Avail     ----- 1203,B 1s2      ----- IS-NR     Avail     ----- 1204,A 1s4      ----- IS-NR     Avail     ----- 1204,B 1s3      ----- IS-NR     Avail     ----- 1205,A 1s5      ----- IS-NR     Avail     ----- 1205,A1 1s5      ----- IS-NR     Avail     ----- 1205,A2 1s5      ----- IS-NR     Avail     ----- 1205,A3 1s5      ----- IS-NR     Avail     ----- 1205,B3 1s5      ----- IS-NR     Avail     ----- 1206,A 1s6      ----- IS-NR     Avail     ----- 1206,B 1s6      ----- IS-NR     Avail     ----- 1207,A 1s7      ----- IS-NR     Avail     ----- 1207,B 1s7      ----- IS-NR     Avail     ----- 1211,A 1s11     ----- IS-NR     Avail     ----- 1211,B 1s11     ----- IS-NR     Avail     ----- 1301,A 1s1301i0 ----- IS-NR     Avail     ----- 1301,B 1s1301i0 ----- IS-NR     Avail     ----- 1302,A 1s1302i0 ----- IS-NR     Avail     ----- 1302,B 1s1302i0 ----- IS-NR     Avail     ----- 1303,A 1s1303i0 ----- IS-NR     Avail     ----- 1303,B 1s1303i0 ----- IS-NR     Avail     ----- 1304,A 1s1304i0 ----- IS-NR     Avail     ----- 1304,B 1s1304i0 ----- IS-NR     Avail     ----- 1311,A 1s1311i0 ----- IS-NR     Avail     ----- 1311,B 1s1311i0 ----- IS-NR     Avail     ----- 1311,A1 1s1311i0 ----- IS-NR     Avail     ----- 1311,B1 1s1311i0 ----- IS-NR     Avail     ----- Command Completed.</pre>
<p><b>13</b> <input type="checkbox"/></p>	<p>Issue the command to retrieve card provisioning.</p>	<p><b>rtrv-card</b></p>



**Procedure 3: Determining General System Status**

14	Response to retrieve command is displayed.	<pre> eaglestp YY-MM-DD hh:mm:ss EST PPP XX.X.X-YY.Y.Y CARD TYPE APPL LSET NAME LINK SLC LSET NAME LINK SLC 1101 ENET IPSG stpa220a A 0 sc4a224a B 0 sc1a221a A1 0 sc5a225a B1 0 sc2a222a A2 0 sc6a226a B2 0 sc3a223a A3 0 sc7a227a B3 0 stpa027i A4 0 sp1a028i B4 0 sc1a028i A5 0 sp2a029i B5 0 sc2a029i A6 0 sp3a030i B6 0 sc3a030i A7 0 sp4a031i B7 0  1102 TSM GLS 1103 DSM VSCCP 1105 ENET IPSG stpa220a A 1 sc4a224a B 1 sc1a221a A1 1 sc5a225a B1 1 sc2a222a A2 1 sc6a226a B2 1 sc3a223a A3 1 sc7a227a B3 1 stpa027n A4 1 sp1a028n B4 1  1106 LIME1 CCS7ITU sc6a033i A 0 1107 DCM IPGWI sc5a032i A 1 1108 MCPM MCP 1111 ENET IPSG lg1111a00 A 0 lg1111i01 A1 0 lg1111n02 A2 0 1112 ENET IPSG lg1111a00 A 1 lg1111i01 A1 1 lg1111n02 A2 1  1113 E5-MCAP OAM 1114 TDM-A 1115 E5-MCAP OAM 1116 TDM-B 1117 MDAL 1201 ENET IPSG stpa220a A 3 sc4a224a B 3 sc1a221a A1 3 sc5a225a B1 3 sc2a222a A2 3 sc6a226a B2 3 sc3a223a A3 3 sc7a227a B3 3 stpa027i A4 3 sp1a028i B4 3 sc1a028i A5 3 sp2a029i B5 3 sc2a029i A6 3 sp3a030i B6 3 sc3a030i A7 3 sp4a031i B7 3 stpa027n A8 3 sp1a028n B8 3 sc1a028n A9 3 sp2a029n B9 3 sc2a029n A10 3 sp3a030n B10 3 sc3a030n A11 3 sp4a031n B11 3 1203 LIMT1 SS7ANSI ls3307a00 A 0 ls3307a04 B 0 ls3307a00 A1 1 ls3307a04 B1 1 ls3307a00 A2 2 ls3307a04 B2 2 ls3307a00 A3 3 ls3307a04 B3 3 ls3307a08 A4 0 ls3307a12 B4 0 ls3307a08 A5 1 ls3307a12 B5 1 ls3307a08 A6 2 ls3307a12 B6 2 ls3307a08 A7 3 ls3307a12 B7 3 ls3307a16 A8 0 ls3307a20 B8 0 ls3307a16 A9 1 ls3307a20 B9 1 ls3307a16 A10 2 ls3307a20 B10 2 ls3307a16 A11 3 ls3307a20 B11 3 ls3307a24 A12 0 ls3307a28 B12 0 ls3307a24 A13 1 ls3307a28 B13 1 ls3307a24 A14 2 ls3307a28 B14 2 ls3307a24 A15 3 ls3307a28 B15 3 1205 DCM IPLIMI sc4a031i A 0 sc4a031n B 0 sc4a031i A1 1 sc4a031n B1 1 1206 DCM IPLIMI sc4a031i A 8 sc4a031n B 8 sc4a031i A1 9 sc4a031n B1 9 1207 LIMATM ATMANSI sc8a228a A 1 sc9a229a B 1 1208 ENET IPSG lg2305a00 A 7 gr2305i01 A1 7 gr2305n02 A2 7 1211 ENET IPSG stpa220a A 4 sc4a224a B 4 1212 MCPM MCP 1213 LIME1 CCS7ITU ls1213i00 A 0 lr1213i04 B 0 ls1213i01 A1 0 lr1213i05 B1 0 1215 ENET IPSG lg1111a00 A 2 lg1111i01 A1 2 lg1111n02 A2 2 1216 ENET IPSG lg1111a00 A 3 lg1111i01 A1 3 lg1111n02 A2 3 1217 DSM VSCCP ; </pre>
15	Issue the command to report card status.	rept-stat-card

**Procedure 3: Determining General System Status**

<p><b>16</b></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p>Response to card status command is displayed.</p> <p>Look for the slot ID of any IS-ANR or OOS-MT status cards. Ensure that any cards in this state can be explained.</p> <p>Record the card locations of the MASPs:</p> <p>Active MASP _____</p> <p>Standby MASP _____</p>	<pre>eaglestp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y CARD  VERSION      TYPE      GPL      PST      SST      AST 1101  134-060-000    DCM      IPGHC    IS-NR    Active   ----- 1102  134-060-000    LIME1    SS7HC    IS-NR    Active   ----- 1103  134-060-000    LIME1    SS7ML    IS-NR    Active   ----- 1104  134-060-000    LIMDS0   SS7ML    IS-NR    Active   ----- 1105  134-060-000    MCPM     MCP      IS-NR    Active   ----- 1106  134-060-000    LIMATM   ATMANSI  IS-NR    Active   ----- 1107  134-060-000    DCM      IPGHC    IS-NR    Active   ----- 1108  134-060-000    DSM      SCCPHC   IS-NR    Active   ----- 1109  134-060-000    HIPR     HIPR     IS-NR    Active   ----- 1109  134-060-000    HIPR     HIPR     IS-NR    Active   ----- 1111  -----         DSM      VSCCP    OOS-MT   Isolated ----- 1112  134-060-000    TSM      GLSHC    IS-NR    Active   ----- 1113  134-060-000    E5MCAP   OAMHC    IS-NR    Standby  ----- 1114  -----         E5TDM   IS-NR    Active   ----- 1115  134-060-000    E5MCAP   OAMHC    IS-NR    Active   ----- 1116  -----         E5TDM   IS-NR    Active   ----- 1117  -----         E5MDAL   IS-NR    Active   ----- 1201  134-060-000    DCM      IPLIMI   IS-NR    Active   ----- Command Completed.</pre>
<p><b>17</b></p> <p><input type="checkbox"/></p>	<p>Issue the command to report card status.</p>	<p><b>rept-stat-card:loc=XXX:mode=full</b>  <i>(where XXXX is the slot ID of any card that is IS-ANR or OOS-MT in step 16)</i></p>
<p><b>18</b></p> <p><input type="checkbox"/></p>	<p>Response to card status command is displayed.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y CARD  VERSION      TYPE      APPL     PST      SST      AST XXXX  -----         LIMDS0   SS7ANSI  OOS-MT   Isolated ----- ALARM STATUS = ** 0013 Card is isolated from the system   GPL version = -----   IMT BUS A   = -----   IMT BUS B   = -----   CLOCK A    = -----   CLOCK B    = -----   CLOCK I    = -----   MBD BIP STATUS = -----   DB STATUS  = -----   DBD MEMORY SIZE = -----   HW VERIFICATION CODE = -----   SLK A PST   = OOS-MT      LS=e3e4      CLI=-----   SLK B PST   = OOS-MT      LS=e3e4      CLI=-----   SNM TVG RESULT = 24 hr: -----, 5 min: -----   SCCP TVG RESULT = 24 hr: -----, 5 min: -----   EROUTE TVG RESULT = 24 hr: -----, 5 min: -----   SENTINEL SOCKET A = INACTIVE Command Completed.</pre>
<p><b>19</b></p> <p><input type="checkbox"/></p>	<p>Repeat steps 17 – 18 for all cards that were IS-ANR or OOS-MT in step 16.</p>	
<p><b>20</b></p> <p><input type="checkbox"/></p>	<p>Issue the command to display the version of the GPLs running on the system.</p>	<p><b>rept-stat-gpl:display=all</b></p>

### Procedure 3: Determining General System Status

<p>21</p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p>Response to GPL status command.</p> <p>If the target release is 46.7 or higher and any card displayed is running SCCPHC, SIPHC, DEIRHC or ENUMHC GPL, this step fails. Continue with this health check to identify all failures. However, failure of this step will also cause Procedure 19 to fail with obsolete CARD/GPL.</p> <p>NOTE: Cards running those GPLs need to be converted to run corresponding 64 bits GPLs. Follow conversion procedure listed under GPL Management Procedures in "Database Administration - System Management User's Guide" document to convert cards to run 64 bit GPLs.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss zzza EAGLE XX.x.x-YY.y.y GPL Auditing ON  GPL      CARD      RUNNING      APPROVED      TRIAL OAMHC69  1113      145-025-000  145-025-000  ----- *           BLDC32      145-023-000  145-023-000  145-023-000 OAMHC69  1115      145-025-000  145-025-000  ----- *           BLDC32      145-023-000  145-023-000  145-023-000 HIPR2    1109      145-002-000  145-002-000  145-002-000 HIPR2    1110      145-002-000  145-002-000  145-002-000 HIPR2    1209      145-002-000  145-002-000  145-002-000 HIPR2    1210      145-002-000  145-002-000  145-002-000 SFAPP    1107      145-025-000  145-025-000  145-025-000           BLSLC64      145-023-000  145-023-000  145-023-000 SFAPP    1202      145-025-000  145-025-000  145-025-000           BLSLC64      145-023-000  145-023-000  145-023-000 SS7HC    1101      145-025-000  145-025-000  145-025-000           BLMCAP      145-023-000  145-023-000  145-023-000 IPSHC    1104      145-025-000  145-025-000  145-025-000           BLMCAP      145-023-000  145-023-000  145-023-000 IPSG     1204      145-025-000  145-025-000  145-025-000           BLMCAP      145-023-000  145-023-000  145-023-000 IPSG     1207      145-025-000  145-025-000  145-025-000           BLMCAP      145-023-000  145-023-000  145-023-000 IPSG     1208      145-025-000  145-025-000  145-025-000           BLMCAP      145-023-000  145-023-000  145-023-000 IPSG     1213      145-025-000  145-025-000  145-025-000           BLMCAP      145-023-000  145-023-000  145-023-000 IPSG     1214      145-025-000  145-025-000  145-025-000           BLMCAP      145-023-000  145-023-000  145-023-000 IPSG     1215      145-025-000  145-025-000  145-025-000           BLMCAP      145-023-000  145-023-000  145-023-000 IPSG     1216      145-025-000  145-025-000  145-025-000           BLMCAP      145-023-000  145-023-000  145-023-000 IPSG     1217      145-025-000  145-025-000  145-025-000           BLMCAP      145-023-000  145-023-000  145-023-000 IPSG     1218      145-025-000  145-025-000  145-025-000           BLMCAP      145-023-000  145-023-000  145-023-000 SCCP64   1111      145-025-000  145-025-000  145-025-000           BLSLC64      145-023-000  145-023-000  145-023-000 SCCP64   1211      145-025-000  145-025-000  145-025-000           BLSLC64      145-023-000  145-023-000  145-023-000 MCPHC69  1201      145-025-000  145-025-000  145-025-000           BLDC32      145-023-000  145-023-000  145-023-000 MCPHC69  1203      145-025-000  145-025-000  145-025-000           BLSL932      145-023-000  145-023-000  145-023-000 IPSHC69  1105      145-025-000  145-025-000  145-025-000           BLSL932      145-023-000  145-023-000  145-023-000 IPSHC69  1108      145-025-000  145-025-000  145-025-000           BLSL932      145-023-000  145-023-000  145-023-000  Command Completed.</pre>
<p>22</p> <p><input type="checkbox"/></p>	<p>Issue the command to retrieve the shelves</p>	<pre>rtrv-shlf</pre>
<p>23</p> <p><input type="checkbox"/></p>	<p>Response to retrieve shelf command is displayed.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y SHELF DISPLAY FRAME SHELF  TYPE 1           1   CONTROL 1           2   EXTENSION</pre>
<p>24</p> <p><input type="checkbox"/></p>	<p>Issue the command to retrieve STP.</p>	<pre>rtrv-stp</pre>
<p>25</p> <p><input type="checkbox"/></p>	<p>Response to retrieve STP command is displayed.</p> <p>Note: output abridged for brevity. This output displays information for one frame only.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss zzza EAGLE XX.x.x-YY.y.y  Card  Part Number  Rev  Serial Number  Type  DB  APPL  GPL Version ---  - 1101  870-2970-01  L   10214192225  LIME1  2048M  SS7HC  145-025-000 1102  Empty 1103  Empty 1104  870-2971-01  TG  10217052393  IPSM   2048M  IPSHC  145-025-000 1105  7094646      17  10217302123  IPSM  16384M  IPSHC69 145-025-000 1106  Empty 1107  7094646      17  10217322156  SLIC   16384M  SFAPP   145-025-000 1108  BIP Data inv  F   10214372130  IPSM  16384M  IPSHC69 145-025-000 1109  870-2872-02  F   10214372130  HIPR2  145-002-000 1110  870-2872-02  F   10214372180  HIPR2  145-002-000 1111  7094646      17  10217302213  DSM    16384M  SCCP64  145-025-000 1112  Empty 1113  870-2903-02  B   10212225164  E5MCAP 4096M  OAMHC69 145-025-000 1114  TDM 1115  870-2903-01  N   10208345081  E5MCAP 4096M  OAMHC69 145-025-000 1116  TDM 1117  E5MDAL 1118  Empty  1201  870-3089-01  G   10214025308  MCPM   4096M  MCPHC69 145-025-000</pre>

### Procedure 3: Determining General System Status

		<pre> 1202 7094646 17 10217322153 SLIC 16384M SFAPP 145-025-000 1203 7094646 19 10217442309 MCPM 16384M MCPHC69 145-025-000 1204 870-2971-01 TD 10216112120 ENETB 2048M IPSPG 145-025-000 1205 Empty 1206 Empty 1207 BIP Data inv ENETB 2048M IPSPG 145-025-000 1208 870-2971-01 C 10210255063 ENETB 2048M IPSPG 145-025-000 1209 870-2872-01 B 10209125128 HIPR2 145-002-000 1210 870-2872-02 F 10214372120 HIPR2 145-002-000 1211 7094646 17 10217322039 SLIC 16384M SCCP64 145-025-000 1212 Empty 1213 870-2971-01 M 10212465071 ENETB 2048M IPSPG 145-025-000 1214 870-2971-01 N 10213145384 ENETB 2048M IPSPG 145-025-000 1215 870-2971-01 N 10213415156 ENETB 2048M IPSPG 145-025-000 1216 870-2971-01 C 10210255065 ENETB 2048M IPSPG 145-025-000 1217 870-2971-01 TE 10216222178 ENETB 2048M IPSPG 145-025-000 1218 870-2971-01 G 10211257067 ENETB 2048M IPSPG 145-025-000 </pre>																																								
26	Issue the command to retrieve STP.	<b>RTRV-STP:GPL=IPSHC</b>																																								
27	Response to retrieve STP command is displayed.  Note if upgrading to 46.5 or higher and any P/N displayed is 870-2877-xx. If so, at the end of this health check, contact the My Oracle Support.	<pre> eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE XX.X.X.X.X -YY.y.y </pre> <table border="1"> <thead> <tr> <th>Card</th> <th>Part Number</th> <th>Rev</th> <th>Serial Number</th> <th>Type</th> <th>DB</th> <th>APPL</th> <th>GPL Version</th> </tr> </thead> <tbody> <tr> <td>1105</td> <td>870-2877-02</td> <td>B</td> <td>10208467329</td> <td>IPSM</td> <td>2048M</td> <td>IPSHC</td> <td>140-022-000</td> </tr> <tr> <td>1205</td> <td>870-2971-01</td> <td>N</td> <td>10213315392</td> <td>IPSM</td> <td>2048M</td> <td>IPSHC</td> <td>140-022-000</td> </tr> <tr> <td>1215</td> <td>870-2971-01</td> <td>N</td> <td>10213415158</td> <td>IPSM</td> <td>2048M</td> <td>IPSHC</td> <td>140-022-000</td> </tr> <tr> <td>1305</td> <td>870-2877-02</td> <td>B</td> <td>10208507052</td> <td>IPSM</td> <td>2048M</td> <td>IPSHC</td> <td>140-022-000</td> </tr> </tbody> </table> <pre> Command Completed. </pre>	Card	Part Number	Rev	Serial Number	Type	DB	APPL	GPL Version	1105	870-2877-02	B	10208467329	IPSM	2048M	IPSHC	140-022-000	1205	870-2971-01	N	10213315392	IPSM	2048M	IPSHC	140-022-000	1215	870-2971-01	N	10213415158	IPSM	2048M	IPSHC	140-022-000	1305	870-2877-02	B	10208507052	IPSM	2048M	IPSHC	140-022-000
Card	Part Number	Rev	Serial Number	Type	DB	APPL	GPL Version																																			
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1205	870-2971-01	N	10213315392	IPSM	2048M	IPSHC	140-022-000																																			
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1305	870-2877-02	B	10208507052	IPSM	2048M	IPSHC	140-022-000																																			
28	Issue the command to retrieve event log.	<b>rtrv-log:dir=bkwd:num=100:mode=full:edate=yymmdd:type=alarm:slog=act</b> <i>(where yymmdd is yesterday's date.)</i>																																								
29	Response to retrieve log command is displayed.  If report terminates without the "end of log reached" displayed, continue to next step. Otherwise, go to step 32.	<pre> eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.X.X-YY.y.y Card 1115; SYS REL= XX.X.X-YY.y.y; STP CLLI= eaglestp; Timezone= EST  ****02-05-27 21:29:47**** 5119.0912 SYSTEM Dynamic database is now consistent ****02-05-27 21:19:47**** 9703.0911 ** SYSTEM Dynamic database is inconsistent Card 2304 ****02-05-27 21:09:42**** 9280.0912 SYSTEM Dynamic database is now consistent ****02-05-27 20:59:43**** 8850.0009 CARD 1115 OAMHC MASP became active ****02-05-27 19:56:21**** 6209.0106 IMT BUS B IMT Bus alarm cleared ****02-05-27 19:56:19**** 6208.0107 * IMT BUS B Minor IMT failure detected ****02-05-27 19:22:56**** 9829.0048 * TERMINAL 8 Terminal failed ****02-05-27 19:22:56**** 9828.0046 TERMINAL 7 Terminal enabled UAM Report terminated - end of log reached END OF LOG REPORT. </pre>																																								
30	Issue the command to retrieve the next set of events.	<b>rtrv-log:next=500</b>																																								

### Procedure 3: Determining General System Status

<p><input type="checkbox"/> 31</p> <p><input type="checkbox"/></p>	<p>Response to retrieve log command is displayed.</p> <p>If report terminates without the “end of log reached” display, the command can be repeated.<sup>4</sup></p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.X.X-YY.Y.Y Card 1115; SYS REL= XX.X.X-YY.Y.Y; STP CLLI= eaglestp; Timezone= EST  8978.0106      IMT BUS B          IMT Bus alarm cleared ***02-05-27  15:02:01**** 8960.0107 *    IMT BUS B          Minor IMT failure detected ***02-05-27  13:59:06**** 6342.0912      SYSTEM                Dynamic database is now consistent ***02-05-27  13:54:18**** 6152.0085      IP7CONN ipi2106b7m2pa IP Connection Available ***02-05-27  13:54:18**** 6131.0536 *    IP7CONN ipi2106b7m2pa IP Connection Excess Retransmits ***02-05-27  13:49:01**** ***02-05-27  00:58:37**** 8789.0311      DPC      2-047-2        DPC is allowed ***02-05-27  00:58:37**** 8787.0314      DPC      2-047-2        Route is allowed ***02-05-27  00:58:37**** 8786.0311      DPC      2-045-2        DPC is allowed ***02-05-27  00:58:37**** 8785.0314      DPC      2-045-2        Route is allowed UAM Report terminated - end of log reached END OF LOG REPORT.</pre>
<p><input type="checkbox"/> 32</p>	<p>Issue the command to retrieve the log for the standby.</p> <p>Repeat steps 30 – 31 until the “end of log reached” message displays.</p>	<pre>rtrv-log:dir=bkwd:num=100:mode=full:edate=yymmdd:type=alarm:slog=stb (Where yymmdd is yesterday's date.)</pre>
<p><input type="checkbox"/> 33</p>	<p>Issue the retrieve log command for the UIM log types.</p> <p>Repeat steps 30 – 31 until the “end of log reached” message displays.</p>	<pre>rtrv-log:dir=bkwd:num=100:mode=full:edate=yymmdd:type=uim:slog=act (Where yymmdd is yesterday's date.)</pre>
<p><input type="checkbox"/> 34</p>	<p>Issue the command to retrieve the STP power level.</p>	<pre>rtrv-stp:display=power</pre>
<p><input type="checkbox"/> 35</p> <p><input type="checkbox"/></p>	<p>Response to retrieve power frame command is displayed.</p> <p>Note any of the power threshold numbers prefixed with a “+” sign.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.X.X-YY.Y.Y        Power Threshold      Power Consumption Frame  (Amps)      (watts)      (Amps)      (watts) ----- CF00      45      2160      37.71      1810 EF00      40      1920      33.99      1631 EF01      35      1680      10.00      480 EF04      +30      +1440      14.06      675  Command Completed.</pre>
<p><input type="checkbox"/> 36</p>	<p>Issue the command to retrieve the threshold alarm levels.</p>	<pre>rtrv-th-alm</pre>
<p><input type="checkbox"/> 37</p>	<p>Response to retrieve threshold alarm command is displayed.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.X.X-YY.Y.Y Thermal Alarm Level 1:      92% Thermal Alarm Level 2:      100% SCCP TPS Threshold:         80% SCCP Calculation Method:    N LNP TN DB Alarm Level 1:    80% LNP TN DB Alarm Level 2:    95% GTT SCCP Service Alarm Level 1: 10% GTT SCCP Service Alarm Level 2: 20% Non-GTT SCCP Service Alarm Level 1: 10% Non-GTT SCCP Service Alarm Level 2: 20% SCCP Service Alarm Level 1 Interval: 0 SCCP Service Alarm Level 2 Interval: 0 IMT Bus Combined Utilization Alarm Level 1: 70% IMT Bus Combined Utilization Alarm Level 2: 80% IMT Bus Congestion Alarm Level 1: 70% IMT Bus Congestion Alarm Level 2: 80% RTRV-TH-ALM: MASP B - COMPLTD.</pre>
<p><input type="checkbox"/> 38</p>	<p>Issue the command to retrieve the site ID.</p>	<pre>rtrv-sid</pre>

<sup>4</sup> The amount of alarms and UIMs during a 24-period can vary greatly depending on the size and how tightly configured and controlled the system is. Retrieving additional log entries may be beneficial.

**Procedure 3: Determining General System Status**

<p>39 <input type="checkbox"/></p>	<p>Response to retrieve command is displayed.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPPP XX.X.X-YY.Y.Y PCA          PCI          PCN          CLLI          PCTYPE 200-080-200  7-080-7      7-080-7-aa  tk1c9051301  ANSI               s-7-080-7      s-7-080-7-aa  CPCA 200-081-000  CPCI (INP) 7-082-0          s-7-082-0  CPCN (INP) 7-082-0-aa      7-082-0-bc    s-7-082-0-aa  s-7-082-0-bc  CPCA (GFLEX) 200-085-000  CPCI (GFLEX) 7-085-0          s-7-085-0  CPCN (GFLEX) 7-085-0-aa      7-085-0-bc    s-7-085-0-aa  s-7-085-0-bc  CPCA (MNP) 200-086-000  CPCI (MNP) 7-086-0          s-7-086-0  CPCN (MNP) 7-086-0-aa      7-086-0-bc    s-7-086-0-aa  s-7-086-0-bc ;</pre>
<p>40 <input type="checkbox"/></p>	<p>Issue the command to retrieve SCTP associations.</p>	<pre>rtrv-assoc:display=all</pre>
<p>41 <input type="checkbox"/></p>	<p>The response to the retrieve command is displayed.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss zzz P P P P P XX.X.X-YY.Y.Y           CARD  IPLNK ANAME    LOC   PORT  LINK  ADAPTER  LPORT  RPORT  OPEN  ALW ip1ma1103a2m2pa 1103 B    A2    M2PA   2175   2163  YES  YES ip1ma1103a3m2pa 1103 B    A3    M2PA   2176   2164  YES  YES ip1ma1103b2m2pa 1103 B    B2    M2PA   2179   2167  YES  YES ip1ma1103b3m2pa 1103 B    B3    M2PA   2180   2168  YES  YES ip1ma2116a2m2pa 2116 A    A     M2PA   3186   3166  YES  YES ip1ma2116a1m2pa 2116 A    A1    M2PA   3187   3167  YES  YES ip1ma2116a2m2pa 2116 A    A2    M2PA   3188   3168  YES  YES ip1ma2116a3m2pa 2116 A    A3    M2PA   3189   3169  YES  YES ip1ma2116b2m2pa 2116 B    B     M2PA   3190   3170  YES  YES ip1ma2116b1m2pa 2116 B    B1    M2PA   3191   3171  YES  YES ip1ma2116b2m2pa 2116 B    B2    M2PA   3192   3172  YES  YES ip1ma2116b3m2pa 2116 B    B3    M2PA   3193   3173  YES  YES g1101asua400a   1101 A    A     SUA    7300   7300  YES  YES g1101asua500a   1101 A    A     SUA    2400   2400  YES  YES g1102asua400a   1102 A    A     SUA    2300   2300  YES  YES g1102asua500a   1102 A    A     SUA    2400   2400  YES  YES  IP App1 Sock/Assoc table is (16 of 4000) 1% full ;</pre>
<p>42 <input type="checkbox"/></p>	<p>Issue the command to retrieve T1 ports.</p>	<pre>rtrv-t1</pre>
<p>43 <input type="checkbox"/></p>	<p>The response to the retrieve command is displayed.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss zzz P P P P P XX.X.X-YY.Y.Y T1 LOC  PORT  ENCODE  T1TSEL  FRAMING  LL  CHANBRDG 1304 3      B8ZS    LINE    ESF      133  -----  CHAN  ---- 1304 4      B8ZS    LINE    ESF      133  -----  CHAN  ---- 2203 5      B8ZS    LINE    ESF      133  -----  CHAN  ---- 2203 6      B8ZS    LINE    ESF      133  -----  CHAN  ---- 2314 7      B8ZS    LINE    ESF      133  -----  CHAN  ---- 2314 8      B8ZS    LINE    ESF      133  -----  CHAN  ---- 3113 1      B8ZS    LINE    ESF      133  -----  CHAN  ---- 3113 2      B8ZS    LINE    ESF      133  -----  CHAN  ---- 3214 3      B8ZS    LINE    ESF      133  -----  CHAN  ---- 3214 4      B8ZS    LINE    ESF      133  -----  CHAN  ---- 3307 5      B8ZS    LINE    ESF      133  -----  CHAN  ---- 3307 6      B8ZS    LINE    ESF      133  -----  CHAN  ---- 4104 7      B8ZS    LINE    ESF      133  -----  CHAN  ---- 4104 8      B8ZS    LINE    ESF      133  -----  CHAN  ---- 1107 1      B8ZS    LINE    ESF      133  -----  CHAN  ---- 1107 2      B8ZS    LINE    ESF      133  -----  CHAN  ---- ;</pre>
<p>44 <input type="checkbox"/></p>	<p>Issue the command to retrieve T1 ports.</p>	<pre>rtrv-e1</pre>
<p>45 <input type="checkbox"/></p>	<p>The response to the retrieve command is displayed.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss zzz P P P P P XX.X.X-YY.Y.Y E1 LOC  PORT  CRC4  CAS  ENCODE  E1TSEL  SI  SN  CHANBRDG  LINK  MINSU           CLASS  RATE</pre>

**Procedure 3: Determining General System Status**

<input type="checkbox"/>		<pre> 1203 1 ON OFF HDB3 LINE 0 0 ----- CHAN ---- 1203 2 ON OFF HDB3 LINE 0 0 ----- CHAN ---- 1203 3 ON OFF HDB3 LINE 0 0 ----- CHAN ---- 1203 4 ON OFF HDB3 LINE 0 0 ----- CHAN ---- 1207 2 ON OFF HDB3 LINE 0 0 ----- CHAN ---- 1207 3 ON OFF HDB3 LINE 0 0 ----- CHAN ---- 1208 3 ON OFF HDB3 LINE 0 0 ----- CHAN ---- 1208 4 ON OFF HDB3 LINE 0 0 ----- CHAN ---- ; </pre>
<input checked="" type="checkbox"/>	<p>46 Issue the command to report IP TPS usage.</p>	<pre> rept-stat-iptps </pre>
<input type="checkbox"/>	<p>47 The response to the status command is displayed.</p>	<pre> eaglestp YY-MM-DD hh:mm:ss zzz P P P P P XX.X.X-YY.Y.Y IP TPS USAGE REPORT  ----- THRESH CONFIG TPS PEAK PEAKTIMESTAMP ----- LSN 1s2206i00 100% 2400 TX: 0 109 10-03-05 10:41:51 RCV: 0 0 00-00-00 00:00:00 1s2206i01 100% 2400 TX: 0 84 10-03-05 10:41:51 RCV: 0 0 00-00-00 00:00:00 1s2206i02 100% 2400 TX: 0 85 10-03-05 10:41:51 RCV: 0 0 00-00-00 00:00:00 1s2206i03 100% 2400 TX: 0 84 10-03-05 10:41:51 RCV: 0 0 00-00-00 00:00:00 1g1111a00 100% 13280 TX: 0 2883 10-03-08 15:26:06 RCV: 0 0 00-00-00 00:00:00 1g2305a00 100% 13280 TX: 0 374 10-03-08 17:19:36 RCV: 0 0 00-00-00 00:00:00 1g1111i01 100% 13280 TX: 0 2883 10-03-08 15:14:06 RCV: 0 0 00-00-00 00:00:00 1g1315i00 100% 5000 TX: 0 9 10-03-12 20:10:36 RCV: 0 0 00-00-00 00:00:00 1g5315i00 100% 380 TX: 0 0 00-00-00 00:00:00 RCV: 0 0 00-00-00 00:00:00 1g1111n02 100% 13280 TX: 0 2883 10-03-08 15:19:06 RCV: 0 0 00-00-00 00:00:00 1g1316n00 100% 5000 TX: 0 9 10-03-12 20:10:36 RCV: 0 0 00-00-00 00:00:00 sc1a221a 100% 3200 TX: 1 2883 10-03-08 15:54:36 RCV: 0 2920 10-03-08 18:09:21 sc3a223a 100% 3200 TX: 1 2972 10-03-08 18:39:06 RCV: 0 2920 10-03-08 17:30:21 sc3a030i 100% 3200 TX: 1 2724 10-03-08 17:17:06 RCV: 0 2724 10-03-08 16:44:21 -----  Command Completed. ; </pre>
<input checked="" type="checkbox"/>	<p>48 Issue the command to generate a measurements report.</p>	<pre> rept-meas:enttype=stp:type=mtcd </pre>
<input type="checkbox"/>	<p>49a If measurement collection is ON, the response to the report command is displayed.</p>	<pre> eaglestp YY-MM-DD hh:mm:ss zzz P P P P P XX.X.X-YY.Y.Y TYPE OF REPORT: DAILY MAINTENANCE MEASUREMENTS ON STP REPORT PERIOD: LAST REPORT INTERVAL: YY-MM-DD, 00:00:00 THROUGH 23:59:59  STP-MTCD MEASUREMENTS  These measurements are from 10-03-15, 00:00:00 through 23:59:59. ORIGMSUS = 228575718, TRMDMSUS = 204657972, THRSWSMU = 167565746, MTPRESTS = 0, DTAMSULOST = 0, MSINVDPC = 0, MSINVSI0 = 0, OMSINVDPC = 0, MSINVLNK = 0, MSINVSI1 = 0, MSNACDPC = 78, MSINVSCLC = 0, GTTPERFD = 72959128, GTTUN0NS = 12096, GTTUN1NT = 360, MSSCCPFL = 0, MSULOST1 = 0, MSULOST2 = 0, MSULOST3 = 0, MSULOST4 = 0, MSULOST5 = 0, DRDCLFLR = 4207376, DURLKOTG = 4207370, CRSYSAL = 486, MASYSAL = 23558, MISYSAL = 2863, XLXTSPACE = 0, XLXTELEI = 0, TTMAPPF = 0, MSUDSCRD = 0, OVSZMSG = 0, GFGTMATCH = 3888000, GFGTNOMCH = 0, GFGTNOLKUP = 0, MSUSCCPFLR = 0, MSSCCPDISC = 0, MSIDPNOMCH = 0, MSIDPMATCH = 0, MSULOST6 = 0, SCCPLOOP = 0 ; </pre>
<input type="checkbox"/>	<p>49b If measurement collection is OFF, the response to the report command is displayed.</p> <p>Note: This parameter (chg-meas:collect) does not affect measurements collection and generation for the Measurements Platform. It only activates or</p>	<pre> eaglestp YY-MM-DD hh:mm:ss zzz P P P P P XX.X.X-YY.Y.Y TYPE OF REPORT: DAILY MAINTENANCE MEASUREMENTS ON STP REPORT PERIOD: LAST REPORT INTERVAL: YY-MM-DD, 00:00:00 THROUGH 23:59:59  STP-MTCD MEASUREMENTS  <b>Measurement data are not current.</b> ; </pre>

### Procedure 3: Determining General System Status

	deactivates the reporting of scheduled measurements to the UI for the Measurements Platform.	
50 <input type="checkbox"/>	All steps in this procedure were completed.	



### 3.4 Report System Troubles

This procedure examines non-network system troubles that should be corrected. Some examples of non-network troubles are:

- Terminal Failed
- Card has bad A or B system clock
- Card is not running approved GPL
- LIM denied SCCP service
- IMT Bus A failed

If there are any non-network troubles, which cannot be resolved, they should be documented.

In some cases, non-network troubles may not be correctable. For example, a terminal port connected to a modem will report Terminal Failed if the modem is not dialed in.

The procedure will also examine the devices that have their alarms inhibited. In some cases, these alarm inhibits may need to be cleared.

**Procedure 4: Reporting System Troubles**

<b>S T E P #</b>	This procedure examines non-network system troubles that should be corrected (See examples above.)	
<b>1</b> <input type="checkbox"/>	Issue the command to report trouble status.	<b>rept-stat-trbl:display=timestamp</b>
<b>2</b> <input type="checkbox"/>	<p>Response to trouble status command is displayed.</p> <p>Record any non-network troubles.</p> <p>Trouble _____</p>	<pre>eaglestp 98-03-09 14:09:29 EST Re1 XX.X.X Searching devices for alarms... ; eaglestp 98-03-09 14:09:30 EST Re1 XX.X.X SEQN UAM AL DEVICE ELEMENT TROUBLE TEXT 5728.0048 * TERMINAL 14 Terminal failed           98-03-09 10:05:36 5729.0048 * TERMINAL 15 Terminal failed           98-03-09 10:05:36           98-03-09 13:57:40 5731.0013 ** CARD 1214 SS7ANSI Card is isolated from the system           98-03-09 13:57:40 5604.0013 ** CARD 1111 SCCP Card is isolated from the system           98-03-09 13:57:40 5732.0236 ** SLK 1214,A lsn1214 REPT-LKF: not aligned           98-03-09 13:57:40 5733.0236 ** SLK 1214,B lsn1214 REPT-LKF: not aligned           98-03-09 13:57:40 5734.0236 ** SLK 1106,A lsnx1 REPT-LKF: not aligned           98-03-09 13:57:40 5735.0318 ** LSN lsn1214 REPT-LKSTO: link set prohibited           98-03-09 13:57:40 5736.0318 ** LSN lsnx1 REPT-LKSTO: link set prohibited           98-03-09 13:57:40 Command Completed. ;</pre>
<b>3</b> <input type="checkbox"/>	Issue the command to report inhibited alarms	<b>rept-stat-alm:display=inhb</b>
<b>4</b>	Response to alarm status command is displayed.	<pre>eaglestp 98-03-09 14:10:29 EST Re1 XX.X.X rept-stat-alm:display=inhb Command entered at terminal #4. ALARM TRANSFER= RMC ALARM MODE CRIT= AUDIBLE MAJR= AUDIBLE MINR= SILENT ALARM FRAME 1 CRIT= 2 MAJR= 4 MINR= 0 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 ALARM FRAME OAP CRIT= 0 MAJR= 0 MINR= 0 PERM. INH. ALARMS CRIT= 0 MAJR= 0 MINR= 0 TEMP. INH. ALARMS CRIT= 0 MAJR= 0 MINR= 0 ACTIVE ALARMS CRIT= 2 MAJR= 4 MINR= 0 TOTAL ALARMS CRIT= 2 MAJR= 4 MINR= 0  ALARM INHIBIT REPORT ----- DEVICE ELEMENT DURATION ALM INH LVL CUR ALM LVL ----- CARD 1101 PERM MINR MAJR+ Command Completed. ;</pre>
<b>5</b> <input type="checkbox"/>	All steps in this procedure were completed.	

### 3.5 Verifying Database Status

#### Procedure 5: Verifying Database Status

<b>S T E P #</b>	<b>This procedure verifies that your database is coherent, not in transition and that all cards are running at the same database level.</b>	
<b>1</b> <input type="checkbox"/>	Perform this step only if on-site personnel are available. If no personnel are available then go to step 2.	<b>Insert a current release system removable media into the system.</b> <b>For E5-MASP, insert a thumbdrive USB in the Active MASP's latched USB port.</b>
<b>2</b> <input type="checkbox"/>	Issue the command to report database status.	<b>rept-stat-db:display=all</b>
<b>3</b> <input type="checkbox"/>	<p>Response to database command is displayed if running E5 MASP.</p> <p>(OAM-USB status is only shown for the active MASP)</p> <p><input type="checkbox"/> Examine the columns labeled C, T and LEVEL output by this command.</p> <p><input type="checkbox"/> All entries in C should be coherent which is indicated by a Y.</p> <p><input type="checkbox"/> Verify entries in column 'T' show 'N', which indicates that the database is not in transition except the OAM-RMV, OAM-USB, and TDM-BKUP, which show a dash.</p> <p>All entries in LEVEL are numeric values. All entries in this column should be the same value except TDM-BKUP, OAM-RMV and OAM-USB.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y DATABASE STATUS: &gt;&gt; OK &lt;&lt; TDM 1114 ( STDBY)                TDM 1116 ( ACTV ) C  LEVEL      TIME LAST BACKUP    C  LEVEL      TIME LAST BACKUP ----- FD BKUP Y      YYY YY-MM-DD HH:MM:SS TTTT Y      YYY YY-MM-DD HH:MM:SS TTTT FD CRNT Y      XXX                Y      XXX MCAP 1113                MCAP 1115 ----- RD BKUP -      -                Y      ZZZ YY-MM-DD HH:MM:SS TTTT USB BKP -      -                -      -                -  CARD/APPL  LOC  C  T  LEVEL      TIME LAST UPDATE  EXCEPTION ----- SCCP       1101 Y  N  XXX        YY-MM-DD HH:MM:SS - SCCP       1102 Y  N  XXX        YY-MM-DD HH:MM:SS - GLS        1103 Y  N  XXX        YY-MM-DD HH:MM:SS - GLS        1104 Y  N  XXX        YY-MM-DD HH:MM:SS - SS7GX25    1105 Y  N  XXX        YY-MM-DD HH:MM:SS - OAM-RMV    1113 -  -  -          -                - TDM-CRNT   1114 Y  N  XXX        YY-MM-DD HH:MM:SS - TDM-BKUP   1114 Y  -  YYY        YY-MM-DD HH:MM:SS DIFF LEVEL OAM-RMV    1115 Y  -  ZZZ        YY-MM-DD HH:MM:SS DIFF LEVEL OAM-USB    1115 -  -  -          -                - TDM-CRNT   1116 Y  N  XXX        YY-MM-DD HH:MM:SS - TDM-BKUP   1116 Y  -  YYY        YY-MM-DD HH:MM:SS DIFF LEVEL SS7ANSI    1201 Y  N  XXX        YY-MM-DD HH:MM:SS - SS7ANSI    1202 Y  N  XXX        YY-MM-DD HH:MM:SS - SS7ANSI    1203 Y  N  XXX        YY-MM-DD HH:MM:SS - CCS7ITU    1211 Y  N  XXX        YY-MM-DD HH:MM:SS - GLS        1218 Y  N  XXX        YY-MM-DD HH:MM:SS -</pre>
<b>4</b> <input type="checkbox"/>	Send a distributed network database (DDB) audit request to the active OAM.	<b>aud-data:type=ddb:display=all</b>

**Procedure 5: Verifying Database Status**

<p>5</p> <p><input type="checkbox"/></p>	<p>Response to the <b>aud-data</b> command is displayed.</p>	<pre>eag1estp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y DDB AUDIT REPORT SYSTEM STATUS: OK RESPONDING CARDS: 169 INCONSISTENT CARDS: (0) AUDIT START TIME: 18/06/2009 17:53:16 NON RESPONDING CARDS: (0) QUIET PERIOD: 500 ms  RTE          LINK SET  LINK          CM CARD      CM CLSTR    MATED APPL  MTP GLOBL5 H'0a045208 H'020fb1c3 H'05dbdce5 H'00009b73 H'0000a398 ----- H'00000000                 LOC=1201      IDLE PERIOD=711345                DDB UPDATES=218290  H'0a045208 H'020fb1c3 H'05dbdce5 H'00009b73 H'0000a398 ----- H'00000000                 LOC=1203      IDLE PERIOD=711310                DDB UPDATES=265207  H'0a045208 H'020fb1c3 H'05dbdce5 H'00009b73 H'0000a398 ----- H'00000000                 LOC=1205      IDLE PERIOD=711330                DDB UPDATES=303056  : : :  H'0a045208 H'020fb1c3 H'05dbdce5 H'00009b73 H'0000a398 ----- H'00000000                 LOC=6115      IDLE PERIOD=711520                DDB UPDATES=173933  H'0a045208 H'020fb1c3 H'05dbdce5 H'00009b73 H'0000a398 H'00f1f4c3 H'00000000                 LOC=6117      IDLE PERIOD=711225                DDB UPDATES=75945  H'0a045208 H'020fb1c3 H'05dbdce5 H'00009b73 H'0000a398 ----- H'00000000                 LOC=1101      IDLE PERIOD=711185                DDB UPDATES=202383  H'0a045208 H'020fb1c3 H'05dbdce5 H'00009b73 H'0000a398 ----- H'00000000                 LOC=1111      IDLE PERIOD=711535                DDB UPDATES=168151  ;</pre>
<p>6</p> <p><input type="checkbox"/></p>	<p>All steps in this procedure were completed.</p>	

### 3.6 Verifying GPLs

#### Procedure 6: Verifying GPLs

<b>S T E P #</b>	<b>This procedure verifies that all GPLs are correctly distributed throughout the system, including fixed disks and removable media.</b>	
<b>1</b> <input type="checkbox"/>	Issue the command to display GPL status.	<b>rtrv-gp1</b>
<b>2</b> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Response to retrieve GPL command is displayed  Verify that all GPLs in the APPROVED, TRIAL, and REMOVE TRIAL columns match those in the RELEASE column.  Also verify that no GPL alarms exist. (Alarms are shown here as an example.)  Verify that the removable media drive can be read and its GPL contents correspond to current Release GPLs.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT P P P P P  XX.x.x-YY.y.y GPL Auditing  ON  GPL      CARD  RELEASE      APPROVED      TRIAL      REMOVE TRIAL GLS      1114  134-060-000  134-060-000   134-060-000  134-060-000 GLS      1116  134-060-000  134-060-000   134-060-000  ----- GLS      1115  ----- IMT      1114  134-060-000  134-060-000   134-060-000  134-060-000 IMT      1116  134-060-000  134-060-000   134-060-000  ----- IMT      1115  ----- ATMANSI  1114  134-060-000  134-060-000   134-060-000  134-060-000 ATMANSI  1116  134-060-000  134-060-000   134-060-000  ----- ATMANSI  1115  ----- BPHCAP   1114  134-050-000  134-050-000   134-050-000  134-050-000 BPHCAP   1116  134-050-000  134-050-000   134-050-000  ----- BPHCAP   1115  ----- BPDCM    1114  134-050-000  134-049-000   ALM  134-050-000  134-050-000 BPDCM    1116  134-050-000  134-050-000   134-050-000  ----- BPDCM    1115  ----- BLMCAP   1114  134-060-000  134-060-000   134-060-000  134-060-000 BLMCAP   1116  134-060-000  134-060-000   134-060-000  ----- BLMCAP   1115  ----- OAMHC    1114  134-060-000  134-060-000   134-060-000  134-060-000 OAMHC    1116  134-060-000  134-060-000   ----- OAMHC    1115  ----- HIPR2    1114  134-060-000  134-060-000   134-060-000  134-060-000 HIPR2    1116  134-060-000  134-060-000   134-060-000  ----- HIPR2    1115  -----</pre> <p><i>{output abridged for brevity.}</i></p>
<b>3</b> <input type="checkbox"/>	Issue the command to display IPLHC GPL status.	<b>REPT-STAT-GPL:GPL=IPLHC</b>
<b>4</b> <input type="checkbox"/> <input type="checkbox"/>	Response to GPL status command is displayed.  Note:if any IPLHC card is displayed, at the end of this health check, contact the My Oracle Support.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE XX.x.x.x.x-YY.y.y GPL Auditing  ON  GPL      CARD      RUNNING      APPROVED      TRIAL IPLHC    1306      XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX IPLHC    2111      XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX IPLHC    4306      XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX  Command Completed. ;</pre>
<b>5</b> <input type="checkbox"/>	Issue the command to display IPGHC GPL status.	<b>REPT-STAT-GPL:GPL=IPGHC</b>
<b>6</b> <input type="checkbox"/> <input type="checkbox"/>	Response to GPL status command is displayed.  Note:if any IPGHC card is displayed, at the end of this health check, contact the My Oracle Support.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE XX.x.x.x.x-YY.y.y GPL Auditing  ON  GPL      CARD      RUNNING      APPROVED      TRIAL IPGHC    1215      XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX IPGHC    2107      XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX IPGHC    5307      XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX  Command Completed. ;</pre>
<b>7</b> <input type="checkbox"/>	All steps in this procedure were completed.	

## 3.7 Retrieving Obituaries

### Procedure 7: Retrieving Obituaries

STEP #	Description	Command/Output
1	Issue the command to retrieve obits from MASP A	<b>rtrv-obit:loc=1113</b>
2	Response to retrieve obit command is displayed.  Capture any obits that have been generated since the last system health check. If this is the first check, record any unexplained obits.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y  NOTICE: Only 1 obit(s) to retrieve in the log. ; eaglestp 98-03-09 18:58:47 EST ReI XX.X.X ----- STH: Received a BOOT APPL-Obituary reply for restart Card 2203  Module ath_vxw.c  Line 2837  Class 0001 Register Dump :   EFL=00000000      CS =0000      EIP=00000000      SS =0000   EAX=00000000      ECX=00000000      EDX=00000000      EBX=00000000   ESP=00000000      EBP=00000000      ESI=00000000      EDI=00000000   DS =0000          ES =0000          FS =0000          GS =0000  Stack Dump : [SP+1E]=0000      [SP+16]=0000      [SP+0E]=0000      [SP+06]=0000 [SP+1C]=0000      [SP+14]=0000      [SP+0C]=0000      [SP+04]=0000 [SP+1A]=0000      [SP+12]=0000      [SP+0A]=0000      [SP+02]=0000 [SP+18]=0000      [SP+10]=0000      [SP+08]=0000      [SP+00]=0000  User Data Dump : 30 78 30 31 63 63 39 37 65 38 20 41 50 50 4c 20      0x01cc97e8.APPL. 57 61 74 63 68 64 6f 67 20 74 69 6d 65 6f 75 74      watchdog.timeout 20 72 65 73 65 74                                     .res Report Date:02-01-01  Time:03:33:49 ----- ;</pre>
3	Issue the command to retrieve obits from MASP B.	<b>rtrv-obit:loc=1115</b>
4	Response to retrieve obit command is displayed.  Capture any obits that have been generated since the last system health check. If this is the first check, record any unexplained obits.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y  NOTICE: Only 3 obit(s) to retrieve in the log. ; eaglestp 98-03-09 18:58:56 EST ReI XX.X.X ----- STH: Received a BOOT APPL-Obituary reply for restart Card 2217  Module pvd1vmsg.c  Line 2755  Class 0001 Register Dump :   EFL=00000246      CS =0008      EIP=00410368      SS =0010   EAX=00000000      ECX=00000000      EDX=00000003      EBX=007f7490   ESP=00da064c      EBP=00da0684      ESI=00da066c      EDI=00da0680   DS =0010          ES =0010          FS =0010          GS =0010  Stack Dump : [SP+1E]=0000      [SP+16]=03c4      [SP+0E]=2d54      [SP+06]=0000 [SP+1C]=0000      [SP+14]=7552      [SP+0C]=3250      [SP+04]=0000 [SP+1A]=03c3      [SP+12]=0054      [SP+0A]=8d86      [SP+02]=007f [SP+18]=f1da      [SP+10]=554f      [SP+08]=4eb0      [SP+00]=7490  User Data Dump : 50 32 54 2d 4f 55 54 00 52 75 c4 03 da f1 c3 03      P2T-OUT.Ru..... 00 00 00 00      .... Report Date:02-01-01  Time:18:59:23 ----- ;</pre>
5	All steps in this procedure were completed.	

### 3.8 Verify SCCP Load

#### Procedure 8: Verify SCCP Load

STEP #	This procedure verifies that SCCP card loads are all below 40%. Verify that all cards that should be in service show PST - IS-NR. Record cards that do not show the expected status.	
1	Issue the command to display SCCP status.	<b>rept-stat-sccp</b>
2	<p>Response to SCCP status command is displayed.</p> <p>Verify that the number in the column labeled MSU USAGE is below 40% for all cards. Record any card slots, which are above 40% for later use.</p> <p>SCCP _____            SCCP _____            SCCP _____</p> <p>E2374: SCCP not configured, displayed if no SCCP feature enabled.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPPP XX.x.x-YY.y.y SCCP SUBSYSTEM REPORT IS-NR Active ----- SCCP ALARM STATUS = No Alarms GFLEX SERVICE REPORT IS-ANR Active ----- GFLEX ALARM STATUS = * 0527 Service abnormal MNP SERVICE REPORT IS-ANR Active ----- MNP ALARM STATUS = * 0527 Service abnormal INPQ SUBSYSTEM REPORT IS-NR Active ----- ASSUMING MATE'S LOAD INPQ: SSN STATUS = Allowed MATE SSN STATUS = Prohibited INP ALARM STATUS = No Alarms  SCCP Cards Configured= 3 Cards IS-NR= 3 System Daily Peak SCCP Load 1200 TPS 13-01-23 06:45:12 System Overall Peak SCCP Load 1200 TPS 13-01-23 06:45:12 System Total SCCP Capacity 2550 TPS (2550 max SCCP Capacity) System SCCP Capacity Calc. Method (N) System TPS Alarm Threshold 2040 TPS ( 80% System N SCCP Capacity)  CARD VERSION PST SST AST MSU CPU USGAGE USGAGE ----- 1207 P XXX-XXX-XXX IS-NR Active ----- 37% 31% 1217 XXX-XXX-XXX IS-NR Active ----- 37% 8% 1315 XXX-XXX-XXX IS-NR Active ----- 37% 6% ----- SCCP Service Average MSU Capacity = 37% Average CPU Capacity = 15%  AVERAGE CPU USAGE PER SERVICE: GTT = 1% GFLEX = 1% MNP = 2% SMSMR = 2% IAR = 0% MTPRTD = 0% INPMR = 1% INPQ = 0%  TOTAL SERVICE STATISTICS: SERVICE SUCCESS ERRORS FAIL REROUTE\ FORWARD TOTAL RATIO WARNINGS TO GTT GTT: 4025 0 0% - - 4025 GFLEX: 19184 0 0% 0 0 19184 MNP: 6378 0 0% 0 1600 7978 SMSMR: 0 0 0% 0 6450 6450 IAR: 0 0 0% 0 0 0 MTPRTD: 0 0 0% - - 0 INPMR: 4789 0 0% 0 0 4789 INPQ: 10427 0 0% 0 0 10427  Command Completed. ;</pre>
3	Issue the command to display SCCP status.	<b>rept-stat-sccp:mode=perf</b>
4	Response to SCCP status command is displayed.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPPP XX.x.x-YY.y.y SCCP SUBSYSTEM REPORT IS-NR Active ----- SCCP ALARM STATUS = No Alarms GFLEX SERVICE REPORT IS-ANR Active ----- GFLEX ALARM STATUS = * 0527 Service abnormal MNP SERVICE REPORT IS-ANR Active ----- MNP ALARM STATUS = * 0527 Service abnormal  SCCP Cards Configured= 3 Cards IS-NR= 3 System Daily Peak SCCP Load 1200 TPS 13-01-23 06:45:12 System Overall Peak SCCP Load 1200 TPS 13-01-23 06:45:12 System Total SCCP Capacity 2550 TPS (2550 max SCCP Capacity) System SCCP Capacity Calc. Method (N) System TPS Alarm Threshold 2040 TPS ( 80% System N SCCP Capacity)  TPS STATISTICS ===== CARD CPU TOTAL CLASS 0 CLASS 1 USGAGE MSU RATE MESSAGING RATE MESSAGING RATE ----- 1207 32% 340 311 29 1217 8% 346 330 16 1315 6% 317 297 20 ----- AVERAGE MSU USAGE = 37%</pre>

		<pre> AVERAGE CPU USAGE = 15% TOTAL MSU RATE     = 1003  STATISTICS FOR PAST 30 SECONDS ===== TOTAL MSUS:        52737 TOTAL ERRORS:      0  HIGHEST 06 OVERALL DAILY PEAKS          LAST 06 DAILY PEAK SCCP LOADS ===== 1200 TPS 13-01-23 06:45:12          1200 TPS 13-01-23 06:45:12 1197 TPS 13-01-21 06:23:04          1186 TPS 13-01-22 23:49:55 1196 TPS 13-01-19 04:40:43          1197 TPS 13-01-21 06:23:04 1193 TPS 13-01-20 21:28:37          1193 TPS 13-01-20 21:28:37 1186 TPS 13-01-22 23:49:55          1196 TPS 13-01-19 04:40:43 1183 TPS 13-01-18 23:42:31          1183 TPS 13-01-18 23:42:31  Command Completed. ; </pre>
5	<input type="checkbox"/> If the EPAP Data Split feature was on in Procedure 2, Step 14, issue the command to display Split Data status. Otherwise, go to step 8.	<pre> <b>rept-stat-sccp:data=dn</b> </pre>
6	<input type="checkbox"/> Response to Split Data status is displayed.	<pre> eaglestp YY-MM-DD hh:mm:ss TTTT PPPP XX.x.x-YY.y.y SCCP DNSUBSYSTEM REPORT IS-NR Active ----- SCCP ALARM STATUS = No Alarms  SCCP Cards Configured= 1      Cards IS-NR= 1 System Daily Peak SCCP Load 0      TPS 13-04-26 10:44:18 System Overall Peak SCCP Load 0      TPS 00-00-00 00:00:00 System Total SCCP Capacity 5000     TPS (5000 max SCCP Capacity) System SCCP Capacity Calc. Method (N) System TPS Alarm Threshold 4000     TPS ( 80% System N SCCP Capacity)  CARD  VERSION      PST      SST      AST      MSU  CPU  DATA       USAGE        USAGE  TYPE ----- 1101 P 027-062-002 IS-NR      Active  -----      0%  5%  DN  AVERAGE MSU USAGE = 0% AVERAGE CPU USAGE = 5% TOTAL MSU RATE     = 0  Command Completed. ; </pre>
7	<input type="checkbox"/> Repeat steps 5 – 6 for IMSI data.	<pre> Repeat the status command specifying: <i>data=imsi</i> </pre>
8	<input type="checkbox"/> Issue the command to display SCCP status.	<pre> <b>rept-stat-sccp:data=epap</b> </pre>
9	<input type="checkbox"/> Response to SCCP status is displayed.  <input type="checkbox"/> E2400: Dual ExAP Config feature must be Enabled, displayed if Dual ExAP Config feature is not enabled	<pre> eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE XX.x.x-YY.y.y SCCP SUBSYSTEM REPORT IS-NR Active ----- SCCP ALARM STATUS = No Alarms  SCCP Cards Configured= 3      Cards IS-NR= 3 System Daily Peak SCCP Load 0      TPS 17-11-28 00:00:07 System Overall Peak SCCP Load 41047 TPS 17-11-22 04:12:44 System Total SCCP Capacity 40800   TPS (40800 max SCCP Capacity) System SCCP Capacity Calc. Method (N) System TPS Alarm Threshold 32640   TPS ( 80% System N SCCP Capacity)  CARD  VERSION      PST      SST      AST      MSU  CPU  DATA       USAGE        USAGE  TYPE ----- 2303  141-019-000 IS-NR      Active  -----      0%  1%  EPAP 4207 P 141-019-000 IS-NR      Active  -----      0%  3%  EPAP 5205  141-019-000 IS-NR      Active  -----      0%  2%  EPAP  AVERAGE MSU USAGE = 0% AVERAGE CPU USAGE = 2% TOTAL MSU RATE     = 0  Command Completed. ; </pre>



<b>10</b> <input type="checkbox"/>	Issue the command to display network status for the card.	<b>pass:loc=xxx:cmd="netstat -i"</b>  (where XXXX is the slot ID of an SCCP card that is displayed in step 9.)
---------------------------------------	---	--

11 Response to NETSTAT command is displayed.

For each card, verify both ports are configured to 1Gig EPAP-to-EAGLE download speed (displayed as 1000MB.).

Note: See Reference [4] in Section 1.2 for further information on port configuration.

```
eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE XX.x.x-YY.y.y
PASS: Command sent to card
;

eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE XX.x.x-YY.y.y
SDS Shell output

-> tklc_ifshow
lo (unit number 0):
  Flags: (0x48049) UP LOOPBACK MULTICAST TRAILERS ARP RUNNING INET_UP
  Type: SOFTWARE_LOOPBACK
  inet: 127.0.0.1
  Netmask 0xff000000 Subnetmask 0xff000000
  Metric is 0
  Maximum Transfer Unit size is 1536
  0 packets received; 1 packets sent
  0 multicast packets received
  0 multicast packets sent
  0 input errors; 0 output errors
  0 collisions; 0 dropped
  0 output queue drops
DPLend (unit number 0):
  Flags: (0x20043) UP BROADCAST ARP RUNNING
  Type: ETHERNET_CSMACD
  Ethernet address is 00:00:00:00:00:00
  Metric is 0
  Maximum Transfer Unit size is 485
  0 octets received
  0 octets sent
  0 unicast packets received
  0 unicast packets sent
  0 non-unicast packets received
  0 non-unicast packets sent
  0 incoming packets discarded
  0 outgoing packets discarded
  0 incoming errors
  0 outgoing errors
  0 unknown protos
  0 collisions; 0 dropped
  0 output queue drops
gei (unit number 0):
  Flags: (0x78043) UP BROADCAST MULTICAST ARP RUNNING INET_UP
  PHY Flags: (0x12114) AUTONEG 1000MB FDX DIX
  Type: ETHERNET_CSMACD
  inet: 192.168.120.7
  Broadcast address: 192.168.120.255
  Netmask 0xffffffff Subnetmask 0xffffffff
  Ethernet address is 00:00:17:0d:7f:8a
  Metric is 0
  Maximum Transfer Unit size is 1500
  27358978 octets received
  120833444 octets sent
  819180 unicast packets received
  80673 unicast packets sent
  1798225 multicast packets received
  52 multicast packets sent
  18821781 broadcast packets received
  985700 broadcast packets sent
  0 incoming packets discarded
  0 outgoing packets discarded
  0 incoming errors
  0 outgoing errors
  0 unknown protos
  0 collisions; 0 dropped
  0 output queue drops
gei (unit number 1):
  Flags: (0x78043) UP BROADCAST MULTICAST ARP RUNNING INET_UP
  PHY Flags: (0x12114) AUTONEG 1000MB FDX DIX
  Type: ETHERNET_CSMACD
  inet: 192.168.121.11
  Broadcast address: 192.168.121.255
  Netmask 0xffffffff Subnetmask 0xffffffff
  Ethernet address is 00:00:17:0d:7f:8b
  Metric is 0
  Maximum Transfer Unit size is 1500
  922842738 octets received
  2982650752 octets sent
  805755 unicast packets received
  30769745 unicast packets sent
  1556943 multicast packets received
  104 multicast packets sent
  7609692 broadcast packets received
  985724 broadcast packets sent
  0 incoming packets discarded
  0 outgoing packets discarded
  0 incoming errors
  0 outgoing errors
  0 unknown protos
  0 collisions; 0 dropped
  0 output queue drops
value = 26 = 0x1a
;

NETSTAT command complete
;
```

<b>12</b> <input type="checkbox"/>	Repeat steps 10 - 11 for all SCCP cards that are displayed in step 9.	
<b>13</b> <input type="checkbox"/>	All steps in this procedure were completed.	

### 3.9 Verifying LNP and LSMS

#### Procedure 9: Verifying LNP and LSMS

<b>S T E P #</b>	<p><b>Perform procedure only if LNP feature is on, see Procedure 2, Steps 14</b></p> <p><b>This procedure displays LNP subsystem and LSMS statuses. Ensure that all cards that should be in service show PST - IS-NR. Record cards that do not show the expected status.</b></p> <p><b>This procedure shall also evaluate the SCCP hardware to determine if an upgrade is valid.</b></p>
<b>1</b> <input type="checkbox"/>	<p>Issue the command to display LNP status.</p> <p style="text-align: right;"><b>rept-stat-lnp</b></p>
<b>2</b> <input type="checkbox"/>	<p>Response to LNP status command is displayed.</p> <pre> eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y LNP SUBSYSTEM REPORT IS-NR Active ----- ASSUMING MATE'S LOAD LNP Cards Configured=15 CARD PST SST GTT STATUS LNP STATUS CPU USAGE 1201 IS-NR Active ACT ACT 1% 1208 IS-NR Active ACT ACT 1% 1218 IS-NR Active ACT ACT 1% 1301 IS-NR Active ACT ACT 1% 1308 IS-NR Active ACT ACT 0% 1318 IS-NR Active ACT ACT 1% 2108 IS-NR Active ACT ACT 1% 2118 IS-NR Active ACT ACT 1% 2208 IS-NR Active ACT ACT 1% 2218 IS-NR Active ACT ACT 1% 2308 IS-NR Active ACT ACT 1% 1101 IS-NR Active ACT ACT 1% 1102 IS-NR Active ACT ACT 1% 1103 IS-NR Active ACT ACT 1% 1108 IS-NR Active ACT ACT 1%  LNPQS: SSN STATUS = Allowed MATE SSN STATUS = Prohibited ACG: OVERLOAD LEVEL = 0 MIC USAGE = 0%  AVERAGE USAGE: GTT = 1% LNPMT = 1% LNPQS = 1% AVERAGE CPU USAGE = 1% TOTAL ERRORS: GTT: 0 out of 1603 LNPMT: 0 out of 38 LNPQS: 0 out of 5406 Command Completed. </pre>
<input type="checkbox"/>	<p>Verify that cards that are supposed to be in service are IS-NR.</p>
<input type="checkbox"/>	<p>Verify that there are no errors.</p>

**Procedure 9: Verifying LNP and LSMS**

<p><b>3</b> <input type="checkbox"/></p>	<p>Issue the command to display card status.</p>	<pre>rept-stat-card:mode=full:loc=XXXX (Where XXXX is the location of each SCCP card displayed in Procedure 3.9 Step 2)</pre>
<p><b>4</b> <input type="checkbox"/>  <input type="checkbox"/></p>	<p>Response to card status command is displayed.</p> <p>Verify that all cards have at least 4096MB of daughterboard memory.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y CARD VERSION TYPE GPL PST SST AST 1111 138-011-000 DSM SCCPHC IS-NR Active ----- ALARM STATUS = No Alarms. BPDCM GPL version = 138-011-000 IMT BUS A = Conn IMT BUS B = Conn CLOCK A = Active CLOCK B = Idle CLOCK I = Idle MBD BIP STATUS = Valid MOTHER BOARD ID = SMXG A DBD STATUS = Valid DBD TYPE = None DBD MEMORY SIZE = 4096M HW VERIFICATION CODE = ---- CURRENT TEMPERATURE = 52C (126F) PEAK TEMPERATURE: = 52C (126F) [16-03-16 09:34] SCCP % OCCUP = 37% APPLICATION SERVICING SNM REQ STATUS = 24 hr: ----- TVG MFC TVG MFC INM REQ STATUS = 24 hr: ----- TVG MFC TVG MFC MTP3 REQ STATUS = 24 hr: ----- G-- 5 min: ----- G-- IPLNK STATUS IPLNK IPADDR STATUS PST A 192.168.120.5 UP IS-NR B 192.168.121.3 UP IS-NR DSM IP CONNECTION PORT PST SST A IS-NR Active B IS-NR Active ; Command Completed.</pre>
<p><b>5</b> <input type="checkbox"/></p>	<p>If LNP is ON as recorded in Procedure 2 Step 12 then issue the command to retrieve LNP options. Otherwise, go to next procedure.</p>	<pre>rtrv-lnpopts</pre>
<p><b>6</b> <input type="checkbox"/>  <input type="checkbox"/></p>	<p>Response to LNP options command is displayed.</p> <p>Record audit status:</p> <p>AUD: _____</p> <p>If LNP auditing is on, go to next procedure.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y LNP OPTIONS ----- AMASLPID = 000000000 INCSLP = no AMATYPE = 000 AMAFEATID = 000 CIC = 0000 AUD = off SP = FRCSMPLX = no ADMHIPRI = no GTWYSTP = no ;</pre>
<p><b>7</b> <input type="checkbox"/></p>	<p>If LNP ported TN is 48000000 or higher or the LNP ELAP Configuration feature key is ON, go to next procedure. Otherwise, issue the command to turn LNP Audit on.</p>	<pre>chg-lnpopts:aud=on</pre>
<p><b>8</b> <input type="checkbox"/></p>	<p>Response to LNP options command is displayed.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y CHG-LNPOPTS: MASP A - COMPLTD ;</pre>
<p><b>9</b> <input type="checkbox"/></p>	<p>For UHC#2, the LNP Audit must be allowed to run for at least 24 hours.</p>	<p><b>NOTE:</b> allow LNP auditing to run for at least 24 hours prior to upgrade.</p>
<p><b>10</b> <input type="checkbox"/></p>	<p>All steps in this procedure were completed.</p>	

### 3.10 Verifying SEAS

#### Procedure 10: Verifying SEAS

S T E P #	<p><b>Perform procedure only if SEAS feature is on, see Procedure 2, Step 12</b></p> <p><b>This procedure verifies that SEAS feature is available. Ensure that all interfaces that should be in service show PST - IS-NR. Record interfaces that do not show the expected status.</b></p>	
1 <input type="checkbox"/>	Issue the command to display SEAS status.	<code>rept-stat-seas</code>
2 <input type="checkbox"/>	Response to SEAS status command is displayed if SEAS over IP feature is turned on.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y SEAS SYSTEM                                PST      SST      AST ----- ALARM STATUS = No Alarms                    IS-NR    Avail    ----- TERM    IPADDR                                PORT    PST      SST      AST ----- 18      120.30.10.11                          15      IS-NR    Active   ----- ALARM STATUS = No Alarms 40      128.30.15.12                          16      IS-NR    Active   ----- ALARM STATUS = No Alarms</pre>
3 <input type="checkbox"/>	All steps in this procedure were completed.	

### 3.11 Verifying optional features

#### Procedure 11: Verifying optional features

**Note:** EAGLE Release 47.0 does not support the DEIR feature. However, the functionality is going to be supported in the future EAGLE releases.

S T E P #	This procedure displays information on which optional features have been enabled.	
1	Issue the command to retrieve STP options.	<b>rtrv-stpopts</b>
2	<p>Response to the command is displayed.</p> <p>Record whether the following options are turned on:</p> <p>DSMAUD: ON / OFF / CCC</p> <p>Note: DSMAUD only displayed with certain features enabled (e.g. GFLEX, INP, GPORT)</p> <p>Verify the GBSUSNMINM option status:</p> <p>GBSUSNMINM: ON / OFF</p> <p>If upgrading to 46.2 and beyond, MFC must be on. If MFC is set to off, this procedure <b>fails</b>.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE5 XX.X.X-YY.yy.y STP OPTIONS ----- MTPPT31CTL          1 MTPPLTI             yes MTPPLTCTDPCQ        3 MTPPLTST           10000 MTPXLQ              500 MTPXLET             100 MTPXLQ              90 MTPDPCQ             8000 TFATFRPR            1000 MTPRSI              no MTPRSIT             5000 MTPPLRST            yes MTPPT10ALT          30000 UIMRD               no SLSCNV              off CRITALMINH          no DISPACTALMS         no NPCFMTI             14-00-00-00 GSMDFLT             discard GSMDECERR           pass DEFCC                1 DEFNDC              970 DSMAUD              on RPTLNP MRSS         yes RANDSL              off RSTRDEV             off SECMTPMATE          off SECMTPSID           off SECMTPSNM           off SECSCCPSCMG        off CNVCGDA             no CNVCGDI             no CNVCGDN             no CNVCGDN24           no CNVCGDN16           no GTCNVDFLT           yes ANSIGFLEX           no ARCHBLDID           on MFC                 on PCT                 off PCN16FMT            745 UITHROTTLE          0 GBSUSNMINM         on GDPCA               ----- EPAP240M            off</pre>
3	If EIS feature is recorded as on in Procedure 2, Step 12 then issue the retrieve command. Otherwise, go to step 7.	<b>rtrv-eisopts</b>
4	<p>Response to the command is displayed.</p> <p>Record the value of EISCOPY &amp; FCMODE values:</p> <p>EISCOPY: ON / OFF</p> <p>FCMODE: STC/OFF/FCOPY</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT P P P P P XX.X.X-YY.y.y EIS OPTIONS ----- EISCOPY = ON FAST COPY OPTIONS ----- FCGPL = IP SG FCMODE = FCOPY FCGPL = IPGHC FCMODE = FCOPY -----</pre>
5	Issue the command to retrieve user-specified options for the IP networks used by the EAGLE.	<b>rtrv-netopts</b>
6	Response to the command is displayed.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT P P P P P XX.X.X-YY.y.y NETWORK OPTIONS</pre>

### Procedure 11: Verifying optional features

**Note:** EAGLE Release 47.0 does not support the DEIR feature. However, the functionality is going to be supported in the future EAGLE releases.

<input type="checkbox"/> <input type="checkbox"/>	Record the value of PVN, PVNMASK, FCNA, FCNAMASK, FCNB and FCNBMASK.	<pre>                 -----                 PVN           = 172.20.48.0                 PVNMASK      = 255.255.252.0                 FCNA         = 172.21.48.0                 FCNAMASK     = 255.255.254.0                 FCNB         = 172.22.48.0                 FCNBMASK     = 255.255.254.0                 -----             </pre>
7 <input type="checkbox"/>	Issue the command to retrieve measurement options.	<pre>                 rtrv-measopts             </pre>
8 <input type="checkbox"/>	Response to the measurement options command is displayed.	<pre>                 eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y                 PLATFORMENABLE = on                 COLLECT15MIN   = off                 CLLIBASEDNAME  = off                 OAMHCMEAS      = off                 -----                 SYSTOTSTP      = on                 SYSTOTTT       = on                 COMPLINK       = on                 COMPLNKSET     = on                 COMPSCTPASOC   = off                 COMPSCTPCARD   = off                 COMPUA         = off                 GTWYSTP        = on                 GTWYLNKSET     = on                 GTWYORIGNI     = on                 GTWYORIGNINC   = on                 GTWYLSORIGNI   = on                 GTWYLSDESTNI   = on                 GTWYLSONISMT   = off                 NMSTP          = on                 NMLINK         = on                 NMLNKSET       = on                 AVLLINK        = on                 AVLDLINK       = off                 ;             </pre>
9 <input type="checkbox"/>	Issue the command to retrieve user-specified options for the SCCP application.	<pre>                 rtrv-sccopts             </pre>
10 <input type="checkbox"/>	Response to the command is displayed.	<pre>                 eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y                 SCCP OPTIONS                 -----                 CLASS1SEQ      off                 CCLEN          0                 ACLEN          0                 INTLUNKNAI     no                 SUBDFRN        off                 DFLTGTMODE     CdPA                 MTPRGTT        off                 MTPRGTTFALLBK  mtproute                 UNQGTSEL       bestmatch                 DELCCPREFIX    pfxwcc                 GTTDIST        all                 ;             </pre>
11 <input type="checkbox"/>	Issue the command to retrieve user-specified options for the GSM.	<pre>                 rtrv-gsmopts             </pre>
12 <input type="checkbox"/>	Response to the command is displayed.	<pre>                 eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y                 GSM OPTIONS                 -----                 MULTCC         = NONE           MULTCC         = NONE                 MULTCC         = NONE           MULTCC         = NONE                 MULTCC         = NONE           MULTCC         = NONE                 MULTCC         = NONE           MULTCC         = NONE                 MULTCC         = NONE           MULTCC         = NONE                 DEFMAPVR       = 1                 -----                 DEFMCC         = 911           DEFMNC         = NONE                 CCNC           = 1970         MCCMNC         = 911666                 CCNC           = NONE          MCCMNC         = NONE                 CCNC           = NONE          MCCMNC         = NONE                 CCNC           = NONE          MCCMNC         = NONE                 CCNC           = NONE          MCCMNC         = NONE                 CCNC           = NONE          MCCMNC         = NONE                 CCNC           = NONE          MCCMNC         = NONE                 CCNC           = NONE          MCCMNC         = NONE                 CCNC           = NONE          MCCMNC         = NONE                 CCNC           = NONE          MCCMNC         = NONE                 CCNC           = NONE          MCCMNC         = NONE                 CCNC           = NONE          MCCMNC         = NONE                 SRIDN          = TCAP          SRIDNNOTFOUND  = GTT                 CRPTT         = NONE          SRISMGTTTRTG  = OFF                 MSRNDIG       = RNDN         MSRNNAI        = 1                 MSRNNP        = 10           MSISDNTRUNC    = 0             </pre>



## Procedure 11: Verifying optional features

**Note:** EAGLE Release 47.0 does not support the DEIR feature. However, the functionality is going to be supported in the future EAGLE releases.

		<pre> SRFADDR      = 19705552222      SRFNAI       = 1 SRFNP       = 1                MSRNLEN      = 30  SERVERPFX   = NONE              GSM2IS41     = NONE MIGRPFX    = SINGLE            IS412GSM    = NONE  SPORTTYPE   = NONE              DFLTRN      = NONE  EIRGRSP    = OFF                EIRRSPTYPE  = TYPE1 EIRIMSICHK = OFF  ENCODECUG   = OFF                ENCODENPS   = ON ENCNDNPSPTNONE = OFF            ENCDNPSDNOTFOUND= OFF  G-Flex MLR OPTIONS : GFLEXMAPLAYERRTG = NONE  REGSS      = OFF  ACTSS      = OFF  DACTSS      = OFF INTSS     = OFF  AUTHFAILRPT = OFF  RSTDATA     = OFF PROCUNSTRQT = OFF  RDYFORMS  = OFF  PURGMOBSS   = OFF SRLOC     = OFF; </pre>
<input type="checkbox"/>	13 Issue the command to retrieve user-specified options for IS41 GSM Migration.	<b>rtrv-is41opts</b>
<input type="checkbox"/>	14 Response to the options command is displayed.	<pre> eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y IS41 OPTIONS ----- SMSREQBYPASS = NO LOCREQDN     = SCCP IEC          = NONE NEC          = NONE RSPCGPARI   = FRMSG RSPCGPAPCP  = FRMSG RSPCDPARI   = FRMSG RSPCDPAPCP  = OFF RSPCGPANAI  = NONE RSPCGPANP   = NONE RSPCGPATT   = NONE MTPLOCREQNAI = FRMSG RSPPARM     = TLIST RSPDIG      = RNDN RSPNON      = NONE RSPNP       = 2 RSPMIN      = HOMERN MSCMKTID    = 0 MSCSWITCH   = 0 ESNMFG      = 0 ESNSN       = 0 RSPDIGTYPE  = 6 LOCREQRMHRN = NO TCAPSNAI    = FRMSG MTPLOCREQLEN = 0 SPORTTYPE   = NONE DFLTRN      = NONE LOCREQRSPND = OFF ; </pre>
<input type="checkbox"/>	15 If SNMP Feature was on in Procedure 2, Step 14 then issue the retrieve option command. Otherwise, go to step 19.	<b>rtrv-snmpopts</b>
<input type="checkbox"/>	16 Response to the command is displayed.	<pre> eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y SNMP OPTIONS ----- SNMPUIM      on GETCOMM      public SETCOMM      private </pre>
<input type="checkbox"/>	17 Issue the retrieve IP Host command for SNMP.	<b>rtrv-snmp-host</b>
<input type="checkbox"/>	18 Response to the retrieve command is displayed.	<pre> eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y IPADDR 10.241.14.62 HOST    dcmsnmptraphost1 CMDPORT 161 TRAPPORT 162 HB      60 TRAPCOMM public  IPADDR 10.241.14.61 HOST    dcmsnmptraphost2 CMDPORT 161 TRAPPORT 162 </pre>

## Procedure 11: Verifying optional features

**Note:** EAGLE Release 47.0 does not support the DEIR feature. However, the functionality is going to be supported in the future EAGLE releases.

		<pre> HB      60 TRAPCOMM public  SNMP HOST table is (2 of 2) 100% full           </pre>
19	If SIP NP Feature was on in Procedure 2, Step 14 then issue the retrieve option command. Otherwise, go to step 23.	<b>rtrv-sipopts</b>
20	Response to the command is displayed.	<pre> eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y INCLUDENPDI = on INCLUDERN   = on NPRSPFMT    = RNDN RNFMT       = RN NPLKUPFAIL  = 404 RNCONTEXT   = Null           </pre>
21	Issue the report SIP status command.	<b>rept-stat-sip</b>
22	Response to the status command is displayed if configured, else "E2688 Cmd Rej: SIP not Configured" is displayed.	<pre> eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE5 XX.x.x-YY.yy.y SIP ALARM STATUS = ** 0625 SIP capacity normal, card(s) abnormal SIP Cards Configured= 3      Cards IS-NR= 1  CARD   VERSION   PST           SST           TPS   PTPS   PTIMESTAMP ----- 1101   004-061-004  IS-ANR       MPS Unavl    0     0     00-00-00 00:00:00 1103   004-062-000  IS-NR       Active       100   100   02-01-08 10:55:23 1105   -----      OOS-MT       Isolated     0     0     00-00-00 00:00:00 -----  TOTAL SERVICE STATISTICS: ===== SERVICE SUCCESS  ERROR  WARNINGS  BYPASS  TOTAL SIPNP:    0      0         0         0         0  Command Completed           </pre>
23	Issue the report DEIR status command.	<b>rept-stat-deir</b>
24	Response to the status command is displayed if configured, else "E2791 Cmd Rej: DEIR not Configured" is displayed.	<pre> eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE5 XX.x.x-YY.yy.y DEIR ALARM STATUS = No Alarms DEIR Cards Configured= 1      Cards IS-NR= 1 Average CPU Usage = 1%  CARD   VERSION   PST           SST           AST           TPS   PTPS ----- 1107 P 135-016-000 IS-NR       Active       -----      0     0  TOTAL DEIR SERVICE STATISTICS: ===== SERVICE SUCCESS  ERROR  WARNINGS  OVERFLOW  TOTAL DEIR SRV: 0      0         0         0         0  Command Completed.           </pre>
25	Issue the report ENUM status command.	<b>rept-stat-enum</b>
26	Response to the status command is displayed if configured, else "E3188 Cmd Rej: ENUM not Configured" is displayed.	<pre> eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.yy.y ENUM ALARM STATUS = No Alarms ENUM Cards Configured= 2      Cards IS-NR= 2  CARD   VERSION   PST           SST           AST           TPS ----- 2303   139-019-000 IS-NR       Active       -----      4006 1105   139-019-000 IS-NR       Active       -----      1000 -----  TOTAL SERVICE STATISTICS: ===== SERVICE SUCCESS  ERROR  RECEIVED ENUM      : 41495  78689  120178  SERVICE RCODE1  RCODE2  RCODE3  RCODE4  RCODE5  TOTAL ENUM      : 12    0       78136  541     0       78689  Command Completed.           </pre>
27	All steps in this procedure were completed.	



### 3.12 Verifying IP Signaling Status

#### Procedure 12: Verifying IP Signaling Status

S T E P #	<p><b>This procedure displays the status of IP Signaling connections and Application Servers. Verify that all IP Signaling connections and Application Servers that should be in service show a state of IS-NR. Record connections or Application Servers that do not show the expected status.</b></p>	
1 <input type="checkbox"/>	Issue the command to display SCTP Association status.	<b>rept-stat-assoc</b>
2 <input type="checkbox"/>	<p>Response to SCTP Association status command is displayed.</p> <p>Verify that all SCTP Associations that should be in service are IS-NR.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.X.X-YY.Y.Y ASSOCIATION      PST      SST ipgwa1           IS-NR    ASP-ACTIVE ipgwa2           IS-NR    ASP-ACTIVE iplima1          IS-NR    ESTABLISHED iplima2          IS-NR    ESTABLISHED Command Completed.</pre>
3 <input type="checkbox"/>	Issue the command to display Application Server status.	<b>rept-stat-as</b>
4 <input type="checkbox"/>	<p>Response to Application Server status command is displayed.</p> <p>Verify that all Application Servers that should be in service are IS-NR.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.X.X-YY.Y.Y AS      PST      SST ipgwas1 IS-NR    AS-ACTIVE ipgwas2 IS-NR    AS-ACTIVE Command Completed.</pre>
5 <input type="checkbox"/>	All steps in this procedure were completed.	

### 3.13 Verifying EROUTE

#### Procedure 13: Verifying EROUTE

S T E P #	<p>This procedure displays the status of the STC cards, and also displays any cards that are denied EROUTE service. Record cards that are denied EROUTE service.</p> <p>This procedure issues the “netstat” command to STC cards to determine if IP addresses have been associated with the card. Record cards that do not have IP addresses associated with them.</p>	
1 <input type="checkbox"/>	Issue the command to display EROUTE status.	<code>rept-stat-mon:type=eroute</code>
2 <input type="checkbox"/>  <input type="checkbox"/>	<p>Response to EROUTE status command is displayed.</p> <p>Verify that all cards listed are in IS-NR state.</p> <p>Note: if any cards are denied eroute service, the text “CARDS DENIED EROUTE SERVICE:” will be displayed followed by the card locations.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y EROUTE SUBSYSTEM REPORT IS-NR Active ----- STC Cards Configured= 7 Cards IS-NR= 7 EISCOPY BIT = ON System Threshold = 80% Total Capacity System Peak EROUTE Load:      8000 Buffers/Sec System Total EROUTE Capacity:  9600 Buffers/Sec  SYSTEM ALARM STATUS = No Alarms.  CARD  VERSION      PST           SST           AST           TVG   CPU       USAGE        USAGE ----- 1205  236-024-005  IS-NR        Active        -----        35%   52% 1211  236-024-005  IS-NR        Active        -----        35%   52% 1303  236-024-005  IS-NR        Active        -----        35%   52% 1311  236-024-005  IS-NR        Active        -----        35%   52% 1313  236-024-005  IS-NR        Active        -----        35%   52% 2211  236-024-005  IS-NR        Active        -----        35%   52% 2213  236-024-005  IS-NR        Active        -----        35%   52% ----- EROUTE Service Average TVG Capacity = 35% Average CPU Capacity = 52%  Command Completed.</pre>

### Procedure 13: Verifying EROUTE

<b>3</b> <input type="checkbox"/>	Issue the command to display network status for the card.	Pass: loc=xxxx:cmd="netstat -t" (where XXXX is the slot ID of an STC card that is IS-NR in step 2.)
--------------------------------------	---	--

4

Response to NETSTAT command is displayed.



Verify both Port A (Seq 0) and Port B (Seq 1) of the STC card have an associated IP address.



Note: For E5-ENET card, verify both Port A (GEI 2) and Port B (GEI 0) have associated IP addresses.

```

eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y
PASS: Command sent to card

eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y
to (unit number 0):
  Flags: (0x48049) UP LOOPBACK MULTICAST TRAILERS ARP RUNNING INET_UP
  Type: SOFTWARE_LOOPBACK
  inet: 127.0.0.1
  Netmask 0xffff0000 Subnetmask 0xffff0000
  Metric is 0
  Maximum Transfer Unit size is 1536
  0 packets received; 1 packets sent
  0 multicast packets received
  0 multicast packets sent
  0 input errors; 0 output errors
  0 collisions; 0 dropped
  0 output queue drops
DPLend (unit number 0):
  Flags: (0x60043) UP BROADCAST ARP RUNNING INET_UP
  Type: ETHERNET_CSMACD
  inet: 172.20.48.243
  Broadcast address: 172.20.51.255
  Netmask 0xffff0000 Subnetmask 0xfffffc00
  Ethernet address is 00:00:00:00:00:f3
  Metric is 0
  Maximum Transfer Unit size is 485
  42 octets received
  28 octets sent
  1 unicast packets received
  1 unicast packets sent
  0 non-unicast packets received
  0 non-unicast packets sent
  0 incoming packets discarded
  0 outgoing packets discarded
  0 incoming errors
  0 outgoing errors
  0 unknown protos
  0 collisions; 0 dropped
  0 output queue drops
gei (unit number 2):
  Flags: (0x70043) UP BROADCAST ARP RUNNING INET_UP
  PHY Flags: (0x12012) 100MB FDX DIX
  Type: ETHERNET_CSMACD
  inet: 192.168.53.68
  Broadcast address: 192.168.53.255
  Netmask 0xfffff00 Subnetmask 0xfffff00
  Ethernet address is 00:00:17:0d:87:a8
  Metric is 0
  Maximum Transfer Unit size is 1500
  118464 octets received
  44920 octets sent
  698 unicast packets received
  698 unicast packets sent
  0 multicast packets received
  0 multicast packets sent
  1152 broadcast packets received
  2 broadcast packets sent
  0 incoming packets discarded
  0 outgoing packets discarded
  0 incoming errors
  0 outgoing errors
  0 unknown protos
  0 collisions; 0 dropped
  0 output queue drops
gei (unit number 3):
  Flags: (0x78042) DOWN BROADCAST MULTICAST ARP RUNNING INET_UP
  PHY Flags: (0x2224) AUTONEG DIX
  Type: ETHERNET_CSMACD
  inet: 172.21.48.243
  Broadcast address: 172.21.49.255
  Netmask 0xffff0000 Subnetmask 0xfffffe00
  Ethernet address is 00:00:17:0d:87:a9
  Metric is 0
  Maximum Transfer Unit size is 2000
  0 octets received
  0 octets sent
  0 unicast packets received
  0 unicast packets sent
  0 multicast packets received
  0 multicast packets sent
  0 broadcast packets received
  0 broadcast packets sent
  0 incoming packets discarded
  0 outgoing packets discarded
  0 incoming errors
  0 outgoing errors
  0 unknown protos
  0 collisions; 0 dropped
  0 output queue drops
gei (unit number 1):
  Flags: (0x78042) DOWN BROADCAST MULTICAST ARP RUNNING INET_UP
  PHY Flags: (0x2224) AUTONEG DIX
  Type: ETHERNET_CSMACD
  inet: 172.22.48.243
  Broadcast address: 172.22.49.255
  Netmask 0xffff0000 Subnetmask 0xfffffe00
  Ethernet address is 00:00:17:0d:88:9f

```

**Procedure 13: Verifying EROUTE**

		<pre> Metric is 0 Maximum Transfer Unit size is 2000 0 octets received 0 octets sent 0 unicast packets received 0 unicast packets sent 0 multicast packets received 0 multicast packets sent 0 broadcast packets received 0 broadcast packets sent 0 incoming packets discarded 0 outgoing packets discarded 0 incoming errors 0 outgoing errors 0 unknown protos 0 collisions; 0 dropped 0 output queue drops ; eaglestp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y NETSTAT command complete </pre>
<p>5 <input type="checkbox"/></p>	<p>Repeat steps 3 - 4 for all STC cards that are IS-NR in step 2.</p>	
<p>6 <input type="checkbox"/></p>	<p>All steps in this procedure were completed.</p>	



### 3.14 Verifying IMT Status

#### Procedure 14: Verifying IMT Status

<b>S T E P #</b>	<b>This procedure verifies that the IMT Bus is free of errors. This procedure is run in correspondence with Procedure 3.</b>	
<b>1</b> <input type="checkbox"/>	Issue the command to display IMT errors.	<b>rept-imt-1v11:sloc=1201:e1oc=1115:r=summary</b>
<b>2</b> <input type="checkbox"/>  <input type="checkbox"/>	Response to IMT report command is displayed.  Ensure that all highlighted columns contain zeroes.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y ===== SUMMARY REPORT: Totals accumulated from all requested cards  Count                               Bus A Value      Bus B Value -----                               - Transmit Packet                      0M                0M Transmit Byte                         0M                0M Receive Packet                       0M                0M Receive Byte                          0M                0M Receive Packet with CRC Error         0                  0 Receive Packet with Format Error       0                  0 Receive Packet with Invalid Length     0                  0 Primary Control Receive Error         0                  0 Primary Control Transmit Error        0                  0 Primary Control Sanity Error          0                  0 Violation Error                       0                  0 CPU Receive FIFO Full                 0                  0 IMT Receive FIFO Half Full            0                  0 CPU Receive FIFO Half Full            0                  0 DMA Terminal Count Interrupt          0                  0 MSU Retransmitted                    0                  0 MSU Safety Packet                     0                  0 ASU Safety Packet                     0                  0 TSU Safety Packet                     0                  0 IMT Receive FIFO Full                 0                  0 SSU Safety Packet                     0                  0 ----- ;END OF REPORT</pre>
<b>3</b> <input type="checkbox"/>	If non-zeros, the command to display IMT level 1 information.	<b>rept-imt-1v11:sloc=1201:e1oc=1115:r=full</b>
<b>4</b> <input type="checkbox"/>	Response to MUX status command is displayed.  Note: Output abridged for brevity,	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y ===== FULL REPORT: Totals accumulated from all requested cards  Count                               Bus A Value      Bus B Value -----                               - Transmit Packet                      0M                0M Transmit Byte                         0M                0M Receive Packet                       0M                0M Receive Byte                          0M                0M Receive Packet with CRC Error         0                  0 Receive Packet with Format Error       0                  0 Receive Packet with Invalid Length     0                  0 Primary Control Receive Error         0                  0 Primary Control Transmit Error        0                  0 Primary Control Sanity Error          0                  0 Violation Error                       0                  0 CPU Receive FIFO Full                 0                  0 IMT Receive FIFO Half Full            0                  0 CPU Receive FIFO Half Full            0                  0 DMA Terminal Count Interrupt          0                  0 MSU Retransmitted                    0                  0 MSU Safety Packet                     0                  0 ASU Safety Packet                     0                  0 TSU Safety Packet                     0                  0 IMT Receive FIFO Full                 0                  0 SSU Safety Packet                     0                  0 ----- ;END OF REPORT</pre>
<b>5</b> <input type="checkbox"/>	Issue the status command for the MUX cards	<b>rept-stat-mux</b>

**Procedure 14: Verifying IMT Status**

<p>6</p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p>Response to MUX status command is displayed.</p> <p>Verify that all cards are IS-NR.</p> <p>Record the types of MUX cards displayed (circle all that are applicable):</p> <p>HMUX HIPR HIPR2</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y CARD TYPE PST SST AST 1109 HMUX IS-NR Active ----- 1110 HMUX IS-NR Active ----- 1209 HMUX IS-NR Active ----- 1210 HMUX IS-NR Active ----- 1309 HIPR IS-NR Active ----- 1310 HIPR IS-NR Active ----- 2109 HIPR2 IS-NR Active ----- 2110 HIPR2 IS-NR Active -----  Command Completed. ;</pre>
<p>7</p> <p><input type="checkbox"/></p>	<p>Issue the report IMT information command.</p> <p>Repeat for all MUX types recorded in Step 6.</p>	<pre>rept-imt-info:report=xxxerr  (where report=hmuxerr if HMUX cards were detected in step 6; report=hiprerr if HIPR cards were detected in step 6; report=hipr2err is HIPR2 cards were detected in step 6.)</pre>
<p>8</p> <p><input type="checkbox"/></p>	<p>Response to report IMT information command is displayed.</p> <p>Note: Output abridged for brevity, Actual output varies based on software release and card type.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y XXXX Summary Report: Summed across all requested cards for each bucket  XXXX Hourly Bucket Statistics  ===== Bucket Low Speed Statistic          BUS A Value  BUS B Value ----- xx  IMT Rx Packet CRC Error          0             0     IMT Rx Packet Format Error        0             0     IMT Rx Violation Error            0             0     IMT Rx Command Error              0             0     IMT Rx FIFO Full                  0             0     IMT Rx FIFO Half Full             0             0     IMT Tx FIFO Full                  0             0     IMT Tx FIFO Half Full             1             0  High Speed Statistic                BUS A Value  BUS B Value -----     IMT Rx Packet CRC Error          0             0     IMT Rx Disparity Error            0             0     IMT Rx Sync Lost Error            0             0     IMT Rx Code Word Error            0             0     CPU Rx FIFO Full                  0             0     CPU Rx FIFO Half Full             0             0     CPU Rx FIFO Empty Before SOM      0             0     CPU Rx FIFO Empty Before EOM      0             0     CPU Rx Packet SOM Before EOM      0             0     CPU Rx Packet CRC Error          0             0     DMA terminal count                 0             0     CPU Tx Buffer EOB                  0             0     CPU Tx Buffer Full                 0             0     CPU Tx Buffer Half Full            9             9     IMT Bypass FIFO Full              0             0     IMT Bypass FIFO Half Full         0             0     IMT Rx FIFO Full                  0             0     IMT Rx FIFO Half Full             0             0  Misc Speed Statistic                BUS A Value  BUS B Value -----     Shelf ID UART Framing Error       0             0     Shelf ID UART Overrun Error       0             0  ;</pre>
<p>9</p> <p><input type="checkbox"/></p>	<p>All steps in this procedure were completed.</p>	

### 3.15 Retrieving Trouble Data

#### Procedure 15: Retrieving Trouble Data

<b>S T E P #</b>	<b>This procedure retrieves the most recently logged troubles.</b> <b>Estimated time for completion: 5 minutes</b>	
<b>1</b> <input type="checkbox"/>	Issue the command to retrieve troubles from MASP A.	<b>rtrv-trbl:loc=1113:num=15</b>
<b>2</b> <input type="checkbox"/>  <input type="checkbox"/>	Response to retrieve trouble command is displayed. Troubles shown here are only examples.  Note any unexplained troubles. (The troubles shown are examples only, actual troubles - if any - may differ.)	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.X.X-YY.Y.Y rtrv-trbl:loc=1113:num=15 Command entered at terminal #X. ; eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.X.X-YY.Y.Y NOTICE: Only 2 trouble(s) to retrieve in the log. ; eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.X.X-YY.Y.Y Card 1113 Module SCM_UTL0.C Line 4101 Class 01bc Severity 1 Of Report Date:YY-MM-DD Time:hh:mm:ss ; eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.X.X-YY.Y.Y Card 1107 Module ED_ENET.C Line 437 Class 01c3 Severity 1 bc 5e 20 00 07 2d 12 00 d4 9b 00 00 00 .^..... Report Date:YY-MM-DD Time:hh:mm:ss ;</pre>
<b>3</b> <input type="checkbox"/>	Issue the command to retrieve troubles from MASP B.	<b>rtrv-trbl:loc=1115:num=15</b>
<b>4</b> <input type="checkbox"/>  <input type="checkbox"/>	Response to retrieve trouble command is displayed. Troubles shown here are only examples.  Note any unexplained troubles. (The troubles shown are examples only, actual troubles - if any - may differ.)	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.X.X-YY.Y.Y rtrv-trbl:loc=1115:num=15 Command entered at terminal #X. ; eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.X.X-YY.Y.Y NOTICE: Only 1 trouble(s) to retrieve in the log. ; eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.X.X-YY.Y.Y Card XXXX Module XXXXXXXX.C Line XXXX Class XXXX Severity X Of Report Date:YY-MM-DD Time:hh:mm:ss ; eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.X.X-YY.Y.Y 5876.1083 SYSTEM INFO REPT COND: system alive Report Date:YY-MM-DD Time:hh:mm:ss ;</pre>
<b>5</b> <input type="checkbox"/>	If the amount of output displayed on the capture terminal is excessive, then issue the command to change the terminal output groups. Otherwise, go to step 7.	<b>chg-trm:trm=P:all=no:sys=yes:sa=yes:db=yes</b> <i>(Where P is the location of the capture terminal used in Proc 1, Step 5.)</i>
<b>6</b> <input type="checkbox"/>	Response to change terminal command is displayed.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.X.X-YY.Y.Y chg-trm:trm=P:all=no:sys=yes:sa=yes:db=yes Command entered at terminal #X. ; eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.X.X-YY.Y.Y CHG-TRM: MASP A - COMPLTD ;</pre>
<b>7</b> <input type="checkbox"/>	All steps in this procedure were completed.	

### 3.16 Verifying Clock Status

#### Procedure 16: Verifying Clock Status

S T E P #	This procedure verifies your system clock status. Specifically, the primary and secondary composite clocks and the A and B clocks going to each card are examined. Both the Primary and Secondary composite clocks should be good (IDLE or ACTIVE) on both the active and standby MASP. There should be no cards reporting a bad A clock and no cards reporting a bad B clock in step 2.
1 <input type="checkbox"/>	Issue the command to report clock status. <b>rept-stat-clk:mode=full</b>
2 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>Response to clock status command is displayed.</p> <p>Verify that both composite clocks are either in IDLE or ACTIVE state on both ACTIVE and STANDBY MASP.</p> <p>All highlighted cards-with-bad-CLK values should equal zero.</p> <pre> eaglestp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y COMPOSITE                                PST           SST           AST SYSTEM CLOCK                             IS-NR         Idle          ----- ALARM STATUS = No Alarms. Primary Comp Clk 1114 (CLK A) IS-NR         Active Primary Comp Clk 1116 (CLK B) IS-NR         Active Secondary Comp Clk 1114 (CLK A) IS-NR         Idle Secondary Comp Clk 1116 (CLK B) IS-NR         Idle  Clock      Using      Bad CLK A      173          0 CLK B       2           0 CLK I       0           --  HIGH SPEED                                PST           SST           AST SYSTEM CLOCK                             IS-NR         Active          ----- ALARM STATUS = No Alarms. Primary HS Clk 1114 (HS CLK A) IS-NR         Active Primary HS Clk 1116 (HS CLK B) IS-NR         Active Secondary HS Clk 1114(HS CLK A) IS-NR         Idle Secondary HS Clk 1116(HS CLK B) IS-NR         Idle  HS CLK TYPE 1114      = RS422 HS CLK LINELEN 1114  = ----- HS CLK TYPE 1116      = RS422 HS CLK LINELEN 1116  = -----  Clock      Using      Bad HS CLK A   19          0 HS CLK B   0           0 HS CLK I   0           --  Cards with bad clock source: CARD      CLK A      CLK B      HS CLK A  HS CLK B ----- </pre> <p>Command Completed.</p>
10 <input type="checkbox"/>	Issue the command to retrieve the clock options. <b>rtrv-clkopts</b>
11 <input type="checkbox"/>	<p>Response to retrieve command is displayed.</p> <pre> eaglestp YY-MM-DD hh:mm:ss zone PPP XX.x.x-YY.y.y CLK OPTIONS ----- PRIMARY ----- HSCLKSRC      rs422 HSCLKLL       Tonghaul  SECONDARY ----- HSCLKSRC      rs422 HSCLKLL       Tonghaul </pre>
12 <input type="checkbox"/>	All steps in this procedure were completed.

### 3.17 Verifying MPS

The purpose of this procedure is to determine the health of MPS.

#### Procedure 17: Verifying MPS

S T E P #	This procedure checks the status of the MPS.	
1 <input type="checkbox"/>	Issue the command to display MPS status.	<b>rept-stat-mps</b>
2 <input type="checkbox"/>	<p>Response to MPS status command is displayed, if any of the features requires ELAP/EPAP.</p> <p>If the MTT error 4102 is output go to step 5.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y  MPS A       VERSION      PST      SST      AST CRITICAL PLATFORM ALARM DATA = No Alarms MAJOR   PLATFORM   ALARM DATA = h'0123456789ABCDEF MINOR   PLATFORM   ALARM DATA = h'0123456789ABCDEF CRITICAL APPLICATION ALARM DATA = No Alarms MAJOR   APPLICATION ALARM DATA = h'0123456789ABCDEF MINOR   APPLICATION ALARM DATA = No Alarms ALARM STATUS = ** 0371 Major Platform Failure(s)  MPS B       VERSION      PST      SST      AST CRITICAL PLATFORM ALARM DATA = No Alarms MAJOR   PLATFORM   ALARM DATA = No Alarms MINOR   PLATFORM   ALARM DATA = No Alarms CRITICAL APPLICATION ALARM DATA = h'0123456789ABCDEF MAJOR   APPLICATION ALARM DATA = h'0123456789ABCDEF MINOR   APPLICATION ALARM DATA = No Alarms ALARM STATUS = *C 0373 Critical Application Failure(s)  CARD  PST      SST      LNP STAT 1106 P IS-NR   Active   ACT 1201 IS-ANR   Active   SWDL 1205 OOS-MT-DSBLD Manual  ----- 1302 OOS-MT   Fault   ----- 1310 IS-ANR   Standby SWDL  CARD 1106 ALARM STATUS = No Alarms CARD 1201 ALARM STATUS = No Alarms CARD 1205 ALARM STATUS = No Alarms CARD 1302 ALARM STATUS = ** 0013 Card is isolated from the system CARD 1310 ALARM STATUS = No Alarms  Command Completed.  ;</pre>
3 <input type="checkbox"/>	<p>If DSM Audit was recorded as being on in Procedure 3.11 Step 2, or is not displayed then go to step 5. Otherwise, if DSM Audit is off, then execute this step.</p> <p>Issue the command to change STP options.</p>	<b>chg-stpopts:dsmaud=on</b>
4 <input type="checkbox"/>	Response to the command is displayed	<pre>eaglestp YY-MM-DD hh:mm:ss zzz PTTTT XX.x.x-YY.y.y CHG-STPOPTS: MASP B - COMPLTD  ;</pre>
5 <input type="checkbox"/>	All steps in this procedure were completed.	

### 3.18 Verify Source Database

#### Procedure 18: Verify Source Database

S T E P #	<p>The purpose of this procedure is to determine the presence of unsupported or obsolete references in the system prior to doing an upgrade when performing the UHC#2 as described in section 2.3, table 3. Otherwise, go to Procedure 19.</p> <p><b>Note:</b> it is important that the target release has been downloaded to the fixed disk, and for target release 46.0 and higher that the system has been configured to use the recommended CHG-UPGRADE-CONFIG:THRESTYPE=SET upgrade method.<sup>5</sup></p> <p>This procedure verifies the presence of the following:</p> <ul style="list-style-type: none"> <li>• obsolete cards</li> <li>• network address conflicts with the PVN and FCN network address</li> </ul> <p><b>Note:</b> this procedure is intrusive meaning the target OAM application must be loaded temporarily to complete this procedure. To ensure accuracy, it is strongly suggested that data capture be active during this procedure because the information produced by this procedure will be used to guide the change of hardware or the modification of the database so potential issues don't effect successful complete of the upgrade.</p> <p>The Software Access Key (SAK) for the upgrade target release is required for this procedure if upgrading to 45.0, 45.1 or 46.0.</p>
1 <input type="checkbox"/>	<p>If removable media is present, remove it from the system.</p> <p><b>Note:</b> it is important that the target release has been downloaded to the fixed disk, and for target release 46.0 and higher that the system has been configured to use the recommended CHG-UPGRADE-CONFIG:THRESTYPE=SET upgrade method.(see footnote 3)</p>
2 <input type="checkbox"/>	<p>Issue the upgrade command to display the database status.</p> <p><b>ACT-UPGRADE:ACTION=DBSTATUS</b></p>
3 <input type="checkbox"/>  <input type="checkbox"/>	<p>Response to the upgrade - database status command is displayed.</p> <p>Verify that the Inactive Partition Group database version displays the target release's version.</p> <pre> eaglestp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x.x.X-YY.y.y DATABASE STATUS: &gt;&gt; OK &lt;&lt;       TDM 1114 ( STDBY)          TDM 1116 ( ACTV )       C  LEVEL    TIME LAST BACKUP  C  LEVEL    TIME LAST BACKUP       ----- FD BKUP Y   148913 12-10-09 04:49:11 GMT  Y   148913 12-10-09 04:49:11 GMT FD CRNT Y   148913 MCAP 1113 MCAP 1115 ----- RD BKUP -   -   -   -   -   -   -   - USB BKP -   -   -   -   -   -   -   -  CARD/APPL  LOC  C  T  LEVEL    TIME LAST UPDATE  VERSION STATUS ----- OAM-RMV    1113  -  -  -   -   -   -   - TDM-CRNT   1114  Y  N  148913 12-10-09 04:47:40  133-003-000  NORMAL TDM-BKUP   1114  Y  -  148913 12-10-09 04:47:40  133-003-000  NORMAL OAM-RMV    1115  -  -  -   -   -   -   - OAM-USB    1115  -  -  -   -   -   -   - TDM-CRNT   1116  Y  N  148913 12-10-09 04:47:40  133-003-000  NORMAL TDM-BKUP   1116  Y  -  148913 12-10-09 04:47:40  133-003-000  NORMAL  INACTIVE PARTITION GROUP CARD/APPL  LOC  C  T  LEVEL    TIME LAST UPDATE  VERSION STATUS ----- TDM-CRNT   1114  Y  -  1   00-00-00 00:00:00  135-000-000  NORMAL TDM-BKUP   1114  Y  -  1   00-00-00 00:00:00  135-000-000  NORMAL TDM-CRNT   1116  Y  -  1   00-00-00 00:00:00  135-000-000  NORMAL TDM-BKUP   1116  Y  -  1   00-00-00 00:00:00  135-000-000  NORMAL           ; </pre>
4 <input type="checkbox"/>	<p>Issue the card status to verify the location of the active MASP slot</p> <p><b>rept-stat-card:appl=oam</b></p>

<sup>5</sup> In the EAGLE Software Upgrade Procedure; see Appendix B: Preparations for Upgrade Execution on how to download the software release to the fixed disk for the applicable target release [B.1: Target Release Software Download] and on how to configure the system to use the card-set upgrade method [B2: Configuring Card-Set Network Conversion Method.]

## Procedure 18: Verify Source Database

<p><b>5</b></p> <input type="checkbox"/>	<p>Response to the card status command is displayed.</p> <p>Record the card locations of both MASP's and the running GPL:</p> <p>Act MASP _____</p> <p>Stby MASP _____</p> <p>MASP GPL: _____</p> <p>For this sample output, cards 1113/1114 are standby and 1115/1116 are active.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT P P P P P XX.X.X.X.X-YY.y.y CARD  VERSION  TYPE  GPL  PST  SST  AST 1113  XXX-XXX-XXX  E5MCAP  OAMHC  IS-NR  Standby  ----- 1115  XXX-XXX-XXX  E5MCAP  OAMHC  IS-NR  Active  -----  Command Completed. ;</pre>
<p><b>6</b></p> <input type="checkbox"/>	<p>Inhibit the standby MASP</p>	<p><b>inh-card:loc=XXXX</b></p> <p>(Where XXXX is the location of the standby MASP slot recorded in step 5)</p>
<p><b>7</b></p> <input type="checkbox"/> <p><b>7</b></p> <input type="checkbox"/>	<p>Response to the inhibit command is displayed</p> <p>Verify UAM 514 is displayed.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.X.X.X.X-YY.y.y Card is inhibited. ;  eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.X.X.X.X-YY.y.y ** 7991.0514 ** CARD xxxx OAMHC Standby MASP is inhibited ;</pre> <p><b>Wait for card to boot and return to the IMT bus.</b></p>
<p><b>8</b></p> <input type="checkbox"/>	<p>Download target release flash to the standby MASP.</p>	<p><b>init-flash:loc=XXXX:code=trial</b></p> <p>(Where XXXX is the location of the standby MASP slot recorded in step 5)</p>
<p><b>9</b></p> <input type="checkbox"/> <p><b>9</b></p> <input type="checkbox"/>	<p>Response to flash initialization is shown.</p> <p>Verify UAM 0004 is displayed.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.X.X.X.X-YY.y.y FLASH Memory Download for card xxxx started. ;  eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.X.X.X.X-YY.y.y FLASH Memory Download for card xxxx completed. ;  eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.X.X.X.X-YY.y.y * 8003.0004 * GPL SYSTEM BLMCAP Card is running non-activated GPL ;</pre> <p><b>Wait for card to boot and return to the IMT bus.</b></p>
<p><b>10</b></p> <input type="checkbox"/>	<p>Retrieve the GPLs running on the card location.</p>	<p><b>rept-stat-gpl:loc=XXXX</b></p> <p>(Where XXXX is the location of the standby MASP slot recorded in step 5)</p>
<p><b>11</b></p> <input type="checkbox"/>	<p>Response to the card status command is displayed.</p> <p>Repeat the previous step if a valid version of the flash GPL is not displayed.<sup>6</sup></p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT P P P P P XX.X.X.X.X-YY.y.y GPL      CARD  RUNNING  APPROVED  TRIAL OAMHC    XXXX  -----  -----  -----           BLDC32  YYY-YYY-YYY ALM+  XXX-XXX-XXX  YYY-YYY-YYY  Command Completed. ;</pre>
<p><b>12</b></p> <input type="checkbox"/>	<p>Run the target release GPL on the standby MASP</p>	<p><b>alw-card:loc=XXXX:code=inactiveprtn</b> (target release downloaded to inactive partition)</p> <p>(Where XXXX is the location of the standby MASP recorded in step 5)</p>

<sup>6</sup> Valid flash GPL for the MASP cards can be either BLMCAP or BLDC32 depending on the release. BLMCAP is valid for 46.6 and prior. BLDC32 is valid in 46.6 or later.

## Procedure 18: Verify Source Database

13 <input type="checkbox"/>	Response to command is shown.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT P P P P P XX.x.x.x.x-YY.yy.y INFO: Provisioning subsystem is in duplex mode. ; Note: UAMs are generated during this step. An audible alarm is generated. Wait for the new standby MASP to come up in standby mode and system returns to duplex mode.</pre>
14 <input type="checkbox"/>	Issue command to report the GPLs running on Standby MASP.	<pre>rept-stat-gpl:loc=XXXX</pre> <p>(Where XXXX is the location of the standby MASP slot recorded in step 5)</p>
15 <input type="checkbox"/>	Verify that the standby MASP is running target release GPLs. The standby MASP will display ALM to indicate that the card is not running the approved version GPL See footnote 6	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x.x.x-YY.y.y GPL Auditing ON  GPL      CARD      RUNNING      APPROVED      TRIAL OAMHC69  XXXX      YYY-YYY-YYY ALM      XXX-XXX-XXX  XXX-XXX-XXX *           BLDC32      YYY-YYY-YYY ALM+     XXX-XXX-XXX  XXX-XXX-XXX  Command Completed. ;</pre>
16 <input type="checkbox"/>	Issue command to report the GPLs running on the Active MASP.	<pre>rept-stat-gpl:loc=yyyy</pre> <p>(Where XXXX is the location of the active MASP slot recorded in Step 5)</p>
17 <input type="checkbox"/>	Verify that the active MASP is running source release GPL. See footnote 6	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x.x.x-YY.y.y GPL Auditing ON  GPL      CARD      RUNNING      APPROVED      TRIAL OAMHC69  YYY      XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX *           BLDC32      XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX  Command Completed. ;</pre>
18 <input type="checkbox"/>	Perform an OAM role change by booting the active OAM.	<pre>init-card:loc=yyyy</pre> <p>(Where YYY is the location of the active MASP recorded in step 5)</p>
19 <input type="checkbox"/>	Response to card initialization is shown.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y init-card:loc=xxxx Command entered at terminal #10. ; eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y Init card command issued to card xxxx ;</pre>
20 <input type="checkbox"/>	Issue command to log back in to the system.	<pre>login:uid=xxxxxx</pre> <p>(Where XXXXXX is a valid login ID)</p>
21 <input type="checkbox"/>	Response to login command is displayed.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT P P P P P XX.x.x-YY.yy.y Upg Phase 0 User logged in on terminal X</pre>
22 <input type="checkbox"/>	Issue the command to activate capture.	<pre>act-echo:trm=P</pre> <p>(Where P is a capture terminal port that was selected in Procedure 2, Step 4)</p>
23 <input type="checkbox"/> <input type="checkbox"/>	Response to activate command is displayed.  Verify that the capture terminal is correctly collecting data.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.yy.y Upg Phase 0 Scroll Area Output will be echoed to Terminal X. ;</pre> <p>(Caution: loss of output may occur if too many terminals are echoed)</p>
24 <input type="checkbox"/>	Issue the card status to verify the location of the active MASP slot	<pre>rept-stat-card:apl=oam</pre>



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<p>25</p> <p><input type="checkbox"/></p>	<p>Response to the card status command is displayed.</p> <p>Record the card locations of both MASPs:</p> <p>Active MASP _____</p> <p>Standby MASP _____</p> <p>For this sample output, 1113 is the active and 1115 is standby.</p> <p>Note: GPL &amp; PST display for the standby MASP can be ignored.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.X.X.X.X-YY.yy.y Upg Phase 0 CARD VERSION TYPE GPL PST SST AST 1113 XXX-XXX-XXX E5MCAP OAMHC IS-NR Active ----- 7 1115 XXX-XXX-XXX E5MCAP ?????? IS-NR Standby ----- 8 Command Completed.</pre> <p>;</p>
<p>26</p> <p><input type="checkbox"/></p>	<p>Inhibit the standby MASP</p>	<p><b>inh-card:loc=YYYY</b></p> <p>(Where YYYY is the location of the standby MASP recorded in step 22)</p>
<p>27</p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p>Response to the inhibit command is displayed</p> <p>Verify UAM 514 is displayed.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.X.X.X.X-YY.yy.y Upg Phase 0 Card is inhibited.</pre> <p>;</p> <pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.X.X.X.X-YY.yy.y Upg Phase 0 ** 7991.0514 ** CARD yyyy OAMHC Standby MASP is inhibited</pre> <p>;</p> <p><b>Wait for card to boot and return to the IMT bus.</b></p>
<p>28</p> <p><input type="checkbox"/></p>	<p>Download target release flash to the standby MASP.</p>	<p><b>init-flash:loc=YYY:code=trial</b></p> <p>(Where YYYY is the location of the standby MASP recorded in step 22)</p>
<p>29</p> <p><input type="checkbox"/></p>	<p>Response to flash initialization is shown.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.X.X.X.X-YY.yy.y Upg Phase 0 FLASH Memory Download for card yyyy started.</pre> <p>;</p> <pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.X.X.X.X-YY.yy.y Upg Phase 0 FLASH Memory Download for card yyyy completed.</pre> <p>;</p> <p><b>Wait for card to boot and return to the IMT bus.</b></p>
<p>30</p> <p><input type="checkbox"/></p>	<p>Retrieve the GPLs running on the card location.</p>	<p><b>rept-stat-gpl:loc=YYYY</b></p> <p>(Where YYYY is the location of the standby MASP slot recorded in step 22)</p>
<p>31</p> <p><input type="checkbox"/></p>	<p>Response to the card status command is displayed.</p> <p>Repeat the previous step if valid version of the flash GPL is not displayed. See footnote 6</p> <p>May need to wait up to 15 minutes to see the GPL in trial and approved column.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.X.X.X.X-YY.yy.y Upg Phase 0 GPL CARD RUNNING APPROVED TRIAL OAMHC 1113 ----- BLMCAP YYY-YYY-YYY ALM + XXX-XXX-XXX YYY-YYY-YYY</pre> <p>Command Completed.</p> <p>;</p>
<p>32</p> <p><input type="checkbox"/></p>	<p>Run the target release GPL on the standby MASP</p>	<p><b>alw-card:loc=YYY:code=inactiveprtn</b> (target release downloaded to inactive partition)</p> <p>(Where YYYY is the location of the standby MASP recorded in step 22)</p>

<sup>7</sup> Dashes are displayed until GPL auditing has initialized after the activity has been switched, which may take up to two minutes.

<sup>8</sup> The GPL of the standby may be blank or may show OAMHC based on the Source/Target releases. Regardless, this information has no impact on the completion of this step.

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<p>33 <input type="checkbox"/></p>	<p>Response to allow card command is shown.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x.x-YY.yy.y Upg Phase 0 Card has been allowed. ;</pre>
<p>34 <input type="checkbox"/></p>	<p>Issue the card status command to verify the target release GPL is running.</p>	<pre>rept-stat-gpl:gpl=oamhc69</pre>
<p>35 <input type="checkbox"/> <input type="checkbox"/></p>	<p>Response from the status command is displayed.</p> <p>Verify that the GPL versions that are displayed in the “RUNNING” is the target release and different from versions displayed in the “APPROVED”.<sup>9</sup></p> <p>Verify that both MASP cards are running the same GPL version.</p> <p>If no cards are displayed, repeat step 34 where <b>gpl=oamhc</b>.</p> <p>If not running the correct versions contact the My Oracle Support.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.yy.y Upg Phase 0 rept-stat-gpl:gpl=oam Command entered at terminal #10. ; eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.yy.y Upg Phase 0 GPL Auditing ON  APPL      CARD      RUNNING      APPROVED      TRIAL OAMHC69   1113      XXX-XXX-XXX ALM  YYY-YYY-YYY  -----  10 OAMHC69   1115      XXX-XXX-XXX ALM  YYY-YYY-YYY  ----- Command Completed. ;</pre>
<p>36 <input type="checkbox"/></p>	<p>Issue the command to report card status to determine the active MASP.</p>	<pre>rept-stat-card</pre>

<sup>9</sup> The “ALM” is displayed when the GPL auditing has completed a cycle. “ALM” does not have to be displayed to continue.

<sup>10</sup> Dashes are displayed until GPL auditing has initialized after the activity has been switched, which may take up to two minutes.

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<p>37</p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p>Typical response to a card status command.</p> <p>Determine if both MASPs are IS-NR. If not, pause until the LEDs indicate both MASP are back or wait 30 seconds and then execute the previous step again.</p> <p>Otherwise, determine the active MASP by finding which area of shaded text reports 'active'. Record the active MASP location: - _____</p> <p>Note: any 'isolated' cards should be plugged into their slots if possible.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT P P P P P XX.x.x-YY.yy.y Upg Phase 0 CARD VERSION TYPE GPL PST SST AST 1101 ----- ENETB IP SG OOS-MT Isolated ----- 1102 134-070-034 LIMATM ATMHC IS-NR Active ----- 1103 134-070-034 LIME1ATM ATMHC IS-NR Active ----- 1104 134-070-034 LIME1 SS7HC IS-NR Active ----- 1105 134-070-034 E5ENETB IP SG IS-NR Active ----- 1106 134-070-034 DCM IPGHC IS-NR Active ----- 1107 134-070-034 DSM SCCPHC IS-NR Active ----- 1108 134-070-034 DCM IPLHC IS-NR Active ----- 1109 134-070-034 HIPR2 HIPR2 IS-NR Active ----- 1110 134-070-034 HIPR2 HIPR2 IS-NR Active ----- 1111 134-070-034 STC ERTHC IS-NR Active ----- 1112 134-070-034 TSM GLSHC IS-NR Active ----- 1113 134-070-034 E5MCAP OAMHC IS-NR Active ----- 1114 ----- E5TDM IS-NR Active ----- 1115 134-070-034 E5MCAP OAMHC IS-NR Standby ----- 1116 ----- E5TDM IS-NR Active ----- 1117 ----- E5MDAL IS-NR Active ----- 1201 ----- ENETB IP SG OOS-MT Isolated ----- 1202 134-070-034 LIMT1 SS7HC IS-NR Active ----- Command Completed.</pre>
<p>38</p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p>Issue the Send Message command that performs checks for obsolete cards.</p>	<pre>send-msg:loc=XXXX:ds=1:da=h'1d:f=h'61 (Where XXXX is the location of the active MASP)</pre> <p>Note: It is important to enter the correct active MASP location determined in the previous step. Incorrect results could be displayed otherwise.</p>
<p>39</p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p>Response to the Send Message command is displayed. Verify the output for the following checks:</p> <p>Verify the shaded text (shown) does not indicate any incorrect hardware is found. Unsupported/obsolete cards are indicated with ***. If obsolete cards are shown then this check fails until the target's baseline hardware is installed.</p> <p>Record the count of obsolete cards: _____</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT P P P P P XX.x.x-YY.yy.y Upg Phase 0 System Buffer sent has following attributes : Msg Length = H'0010 Dest Card = H'00fa Orig Subsys = H'0001           Dest Subsys = H'0001 Orig Appl ID = H'0030         Dest Appl ID = H'001d Func ID = H'0061             Bus/Ret/Sut = H'0002 Violation Ind = H'0000 User Message sent to location XXXX.</pre> <pre>eaglestp YY-MM-DD hh:mm:ss TTTT P P P P P XX.x.x-YY.yy.y IMT Bus Check Started IMT Bus Check Completed Successfully.</pre> <pre>Hardware Validation Test Started... [DSM-1G Obsolescence Test for IPS application.] [TSM-256 Obsolescence Test for GLS application.] [LIM-ATM Obsolescence Test for ATMANSI/ATMITU application.] [E1/T1 MIM Obsolescence Test for SS7ANSI/CCS7ITU application.] [DSM Obsolescence Test for VSCCP application.] [DCM/EDCM Obsolescence Test.] [EDSM Obsolescence Test for MCPM application.] [E1/T1 MPL Obsolescence Test for SS7ML application.]  *** CARD/GPL in slot 1101 is obsolete *** CARD/GPL in slot 1102 is obsolete *** CARD/GPL in slot 1105 is obsolete *** CARD/GPL in slot 1111 is obsolete  Obsolete card's count = 4  Hardware Validation Test Failed, Upgrade can not proceed.</pre>
<p>40</p> <p><input type="checkbox"/></p>	<p>Issue the Send Message command that checks for possible conflicts of IP addresses configured in the system.</p>	<pre>send-msg:loc=XXXX:ds=1:da=h'1d:f=h'63 (Where XXXX is the location of the active MASP)</pre> <p>Note: It is important to correctly enter the active MASP location determined in step 35. Otherwise, incorrect results could be displayed.</p>

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<p>41</p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p>Response to command is displayed.</p> <p>Verify that the IP Address Validation check passes if running the target release of 45.x. Or the check is not required in target release of 46.0 and beyond.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT P P P P P XX.x.x-YY.yy.y Upg Phase 0 System Buffer sent has following attributes :   Msg Length = H'001c   Dest Card = H'00fa   Orig Subsys = H'0001 Dest Subsys = H'0001   Orig Appl ID = H'0030 Dest Appl ID = H'001d   Func ID = H'0063 Bus/Ret/Sut = H'0002   Violation Ind = H'0000 User Message sent to location XXXX. ;  In 45.x:  eaglestp YY-MM-DD hh:mm:ss TTTT P P P P P XX.x.x-YY.yy.y Upg Phase 0 IP Address Validation Report  IP Address Validation Result: Pass. ;  In 46.0 and beyond:  eaglestp YY-MM-DD hh:mm:ss TTTT P P P P P XX.x.x-YY.yy.y Upg Phase 0 Health Check: This check is no longer necessary. ;</pre>
<p>42</p> <p><input type="checkbox"/></p>	<p>If the target release is 45.0, 45.1, or 46.0, issue the command to enter the software access key. Otherwise, if the target release is 46.1 or later, go to step 44.</p>	<p><b>chg-upgrade-config:sak=XXXXXXXXXXXXXXXX:src=fixed</b></p> <p>(Where XXXXXXXXXXXXXXXX is the Software Access Key)</p>
<p>43</p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p>Response to command is displayed.</p> <p>Verify the command completed successfully and the correct Upgrade target release is output</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT P P P P P XX.x.x-YY.yy.y Upg Phase 0 chg-upgrade-config:sak=XXXXXXXXXXXXXXXX:src=zzzzz Command entered at terminal #6. ;  eaglestp YY-MM-DD hh:mm:ss TTTT P P P P P XX.x.x-YY.yy.y Upg Phase 0 Upgrade target: EAGLE XX.x.x-YY.y.y ;  eaglestp YY-MM-DD hh:mm:ss TTTT P P P XX.x.x-YY.y.y Command Completed. ;</pre>

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<p>44 <input type="checkbox"/></p>	<p>If system is running release 46.5.X or 46.6.X and target release is 46.7.X or later, update the bootloader version of SLIC SM cards running 64-bit GPL while the system in in HC2 phase-0 with the following steps:</p> <p>A. Issue the Send Message command that performs checks for obsolete cards.</p> <p>Where, XXXX = Location of the active MASP</p> <p>B. Check the status of SM card.</p> <p>C. Execute the command <b>Note:</b> Ignore if it reports Error E2603: <i>Cmd Rej: Card must be inhibited before executing this command.</i></p> <p>D. Execute the command <b>Note:</b> If card is running correct bootloader then it will display message: "BOOTLOADER not changed for card xxxx. Already running requested bootloader." otherwise it will update the correct bootloader.</p>	<pre>send-msg:loc=XXXX: ds=1:da=64:f=171  rept-stat-card:mode=full:loc=XXXX  init-flash:mode=rplcebl:loc=XXXX:bits=64  INIT-FLASH:MODE=rplcebl:FORCE=YES:LOC=XXXX</pre>
<p>45 <input checked="" type="checkbox"/></p>	<p>Issue the command to retrieve the upgrade configuration.</p>	<pre>rtrv-upgrade-config</pre>
<p>46 <input type="checkbox"/></p>	<p>Response to the retrieve-card command is displayed</p>	<pre>eaglestp YY-MM-DD hh:mm:ss zzz P P P P P X X . x . x - Y Y . y . y Software Access Key no longer required for this system  Configured Upgrade Threshold Type: SET Number of SERVICE Sets: 2 Number of LINK Sets: 2  Command Completed.  ;</pre>
<p>47 <input type="checkbox"/></p>	<p>Issue the command to initialize the active and standby MASP cards so that they are running the source release software.</p>	<pre>init-card:appl=oam</pre>
<p>48 <input type="checkbox"/></p>	<p>Response to the initialize-card command is displayed</p>	<pre>eaglestp YY-MM-DD hh:mm:ss zzz P P P P P X X . x . x - Y Y . y . y init-card:appl=oam Command entered at terminal #X.  ;</pre>
<p>49 <input type="checkbox"/></p>	<p>Issue command to log back in to the system.</p>	<pre>login:uid=XXXXXX (Where XXXXXX is a valid login ID)</pre>

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<input type="checkbox"/>	Response to login command is displayed.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT P P P P P XX.X.X-YY.yy.y User logged in on terminal X</pre>
<input type="checkbox"/>	Issue the command to activate capture.	<pre>act-echo:trm=P (Where P is a capture terminal port that was selected in Procedure 2, Step 4)</pre>
<input type="checkbox"/>	Response to activate command is displayed.  Verify that the capture terminal is correctly collecting data.	<pre>eaglestp YY-MM-DD hh:mm:ss ZZZZ P P P P P XX.X.X-YY.yy.y Scroll Area Output will be echoed to Terminal X. ; (Caution: loss of output may occur if too many terminals are echoed)</pre>
<input type="checkbox"/>	Issue the command to report card status.	<pre>rept-stat-card</pre>
<input type="checkbox"/>	Typical response to card status command.  Note: Compare this output with the rept-stat-card done prior to booting the target MASP. The display should be the same.	<pre>eaglestp YY-MM-DD hh:mm:ss zzzz P P P P P XX.X.X-YY.yy.y CARD  VERSION  TYPE      GPL      PST      SST      AST 1101  134-061-000 DCM      IPGHC    IS-NR    Active  ALMINH 1102  134-061-000 DCM      IPLHC    IS-NR    Active  ALMINH 1103  134-061-000 E5ENET  IPSTG    IS-NR    Active  ----- 1107  134-061-000 DSM      VSCCP    IS-NR    Active  ----- 1109  134-058-000 HIPR     HIPR     IS-NR    Active  ----- 1110  134-058-000 HIPR     HIPR     IS-NR    Active  ----- 1111  134-061-000 DSM      SCCPHC   IS-NR    Active  ----- 1113  134-061-000 E5MCAP  OAMHC    IS-NR    Standby ----- 1114  -----      -----  -----  -----  IS-NR    Active  ----- 1115  134-061-000 E5MCAP  OAMHC    IS-NR    Active  ----- 1116  -----      -----  -----  -----  IS-NR    Active  ----- 1117  -----      -----  -----  -----  IS-NR    Active  ----- 1201  134-061-000 LIMDS0  SS7ML    IS-NR    Active  ----- Command Completed. ;</pre>
<input type="checkbox"/>	Issue the command to report trouble status.	<pre>rept-stat-trbl:display=timestamp</pre>
<input type="checkbox"/>	Response to trouble status command is displayed.  Record any non-network alarms.  Alarm _____	<pre>eaglestp YY-MM-DD hh:mm:ss zzz P P P P P XX.X.X-YY.yy.y Searching devices for alarms... ; eaglestp YY-MM-DD hh:mm:ss EST PPP XX.X.X-YY.yy.y SEQN UAM AL DEVICE ELEMENT TROUBLE TEXT 5728.0048 * TERMINAL 14 Terminal failed 98-03-09 10:05:36 5729.0048 * TERMINAL 15 Terminal failed 98-03-09 10:05:36 98-03-09 13:57:40 5731.0013 ** CARD 1214 SS7ANSI Card is isolated from the system 98-03-09 13:57:40 5604.0013 ** CARD 1111 SCCP Card is isolated from the system 98-03-09 13:57:40 5732.0236 ** SLK 1214,A lsn1214 REPT-LKF: not aligned 98-03-09 13:57:40 5733.0236 ** SLK 1214,B lsn1214 REPT-LKF: not aligned 98-03-09 13:57:40 5734.0236 ** SLK 1106,A lsnx1 REPT-LKF: not aligned 98-03-09 13:57:40 5735.0318 ** LSN lsn1214 REPT-LKSTO: link set prohibited 98-03-09 13:57:40 5736.0318 ** LSN lsnx1 REPT-LKSTO: link set prohibited 98-03-09 13:57:40 Command Completed. ;</pre>
<input type="checkbox"/>	All steps in this procedure were completed.	

### 3.19 Verifying Fixed and Removable Media (Part 1)

#### Procedure 19: Verifying Fixed Disks Functions with TST-DSK

S T E P #	<p>This procedure verifies that EAGLE fixed disks and removable drives are accessible and in proper working order. Disks/drives are exercised by issuing test disk and backup commands. If no on-site personnel are available and the removable drive is not inserted then this procedure needs to be rescheduled.</p>	
1 <input type="checkbox"/>	Issue the command to backup to the fixed disk.	<b>chg-db:action=backup</b>
2 <input type="checkbox"/>	Response to backup command is displayed.	<pre>eaglestp YY-MM-DD hh:mm:ss zzz P P P P P XX.x.x-YY.yy.y 7706.1114 CARD 1115 Database BACKUP started Report Date:98-03-09 Time:17:59:25 ; eaglestp YY-MM-DD hh:mm:ss zzz P P P P P XX.x.x-YY.yy.y BACKUP (FIXED): MASP B - Backup starts on active MASP. ; eaglestp YY-MM-DD hh:mm:ss zzz P P P P P XX.x.x-YY.yy.y BACKUP (FIXED): MASP B - Backup on active MASP to fixed disk complete. ; eaglestp YY-MM-DD hh:mm:ss zzz P P P P P XX.x.x-YY.yy.y BACKUP (FIXED): MASP B - Backup starts on standby MASP. ; eaglestp YY-MM-DD hh:mm:ss zzz P P P P P XX.x.x-YY.yy.y BACKUP (FIXED): MASP B - Backup on standby MASP to fixed disk complete. ;</pre>
3 <input type="checkbox"/>	<b>If not already inserted, insert the source removable media drive into the system</b>	<b>NOTE:</b> The insertion of a removable drive is required to complete this procedure. If drive cannot be inserted, this procedure fails. After failing this procedure, go to Step 9 and to complete the check of the fixed disks.
4 <input type="checkbox"/>	Issue the command to backup to the removable. Otherwise, procedure needs to be rescheduled.	<p><b>Note:</b> The USB storage media in the flush-mounted USB port of the MASP card can also be used for backups.</p> <p>For removable media: <b>chg-db:action=backup:dest=remove</b></p> <p>For USB storage media: <b>chg-db:action=backup:dest=usb</b></p>
5 <input type="checkbox"/> <input type="checkbox"/>	<p>Response to backup command is displayed.</p> <p>Record the location of the active MASP: [1113 or 1115] _____.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss zzz P P P P P XX.x.x-YY.yy.y BACKUP (REMOVABLE): MASP A - Backup starts on active MASP. ; eaglestp YY-MM-DD hh:mm:ss zzz P P P P P XX.x.x-YY.yy.y 0465.1114 CARD 1113 Database BACKUP started Report Date:98-03-31 Time:00:02:03 ; eaglestp YY-MM-DD hh:mm:ss zzz P P P P P XX.x.x-YY.yy.y BACKUP (REMOVABLE): MASP A - Backup to removable cartridge complete. ; eaglestp YY-MM-DD hh:mm:ss zzz P P P P P XX.x.x-YY.yy.y 0466.1116 CARD 1113 Database action ended - OK Report Date:98-03-31 Time:00:05:08 ;</pre>
6 <input type="checkbox"/>	Issue the command to copy GPLs from active TDM to removable drive.	<p><b>Note:</b> The USB storage media in the flush-mounted USB port of the MASP card can also be used for backups.</p> <p>For removable media: <b>copy-gpl:sloc=XXXX:ddrv=remove</b></p> <p>For USB storage media: <b>copy-gpl:sloc=XXXX:ddrv=usb</b></p> <p><i>(Where XXXX is the active TDM location (1114 or 1116) that corresponds to the MASP slot recorded in step 5)</i></p>

## Procedure 19: Verifying Fixed Disks Functions with TST-DSK

<p>7</p> <input type="checkbox"/>	<p>Response to copy GPL command is displayed</p> <p>Verify command completes successfully.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss zzz P P P P P XX.x.x-YY.yy.y COPY GPL:  MASP Y - COPY STARTS ON ACTIVE MASP COPY GPL:  MASP Y - COPY TO REMOVABLE CARTRIDGE COMPLETE ; (Where Y is the active MASP - A or B)</pre>
<p>8</p> <input type="checkbox"/>	<p>Issue the commands to display disk directory of the fixed disk.</p>	<pre>disp-disk-dir:loc=XXXX (Where XXXX is the standby TDM)</pre>
<p>9</p> <input type="checkbox"/>	<p>Response to the display command is displayed.</p> <p>Verify command completes successfully.</p> <p><i>Note that the output data may vary from this example.</i></p>	<pre>eaglestp YY-MM-DD hh:mm:ss zzz P P P P P XX.x.x-YY.yy.y DISP-DISK-DIR  Loc=1114  Dev = FIXED(Active) Filename  Ext      Length DMS1024  CFG      32768 dbstat   bkp      47662 dbstat   tbl      47662 ipas     tbl      262090 mcfg     bkp      156 mcfg     tbl      156 (additional files listed ...)  File(s) : 465      Bytes : 1925810639 Disk Size (MB) : 7515 ;</pre>
<p>10</p> <input type="checkbox"/>	<p>Issue this command to test the fixed disk.</p>	<pre>tst-disk:loc=XXXX:partition=all (Where XXXX is the standby fixed disk)</pre>
<p>11</p> <input type="checkbox"/>  <input type="checkbox"/>	<p>Response to the test disk command is displayed.</p> <p>Verify that there are no errors and retries are indicated.</p> <p>This command will complete in less than a minute.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss T T T T P P P XX.x.x-YY.y.y TST-DISK RESULTS: Total clusters: 983290 Free Clusters: 983290 Bad Clusters: 0 Total Free Space: 3933160 Max. Contiguous Free Space: 3933160 Files: 932 Folders: 0 Bytes in Files: 3761348 Lost Chains: 0 Bytes in Lost Chains: 0 ;</pre>
<p>12</p> <input type="checkbox"/>	<p>Issue the commands to display disk directory of the removable media.</p>	<p><b>Note:</b> The USB storage media in the flush-mounted USB port of the MASP card can also be used for backups.</p> <p>For removable media:</p> <pre>disp-disk-dir:loc=xxxx:src=remove</pre> <p>For USB media:</p> <pre>isp-disk-dir:loc=xxxx:src=usb</pre> <p><i>(Where XXXX is the active MASP)</i></p>
<p>13</p> <input type="checkbox"/>	<p>Response to disp-disk-dir command is displayed.</p> <p>Verify command completes successfully.</p> <p><i>Note that the output data may vary from this example.</i></p>	<pre>eaglestp YY-MM-DD hh:mm:ss T T T P P P P XX.x.x-YY.y.y DISP-DISK-DIR  Loc=1115  Dev = REMOVE Filename  Ext      Length DMS1024  CFG      32768 TATMANSI  ELF      3145728 TATMHC   ELF      5242880 TATMITU  ELF      3145728 TBLBEPM  ELF      3145728 TBLBIOS  ELF      3145728 (additional files listed ...)  File(s) : 182      Bytes : 511026520 Disk Size (MB) : 1910 ;</pre>



**Procedure 19: Verifying Fixed Disks Functions with TST-DSK**

<p><b>14</b> <input type="checkbox"/></p>	<p>Issue this command to test the removable media.</p>	<p><b>Note:</b> The USB storage media in the flush-mounted USB port of the MASP card can also be used for backups.</p> <p>For removable media:</p> <p><b>tst-disk:disk=remove:loc=xxxx</b></p> <p>For USB media:</p> <p><b>tst-disk:disk=usb:loc=xxxx</b></p> <p><i>(Where XXXX is the active MASP)</i></p>
<p><b>15</b> <input type="checkbox"/></p>	<p>Response from the tst-disk command is displayed.</p> <p>For E5OAM system, execution time is under a minute.</p> <p><input type="checkbox"/> Verify that there are no errors and no retries indicated in output.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y  TST-DISK RESULTS: Total Clusters: 149949 Free Clusters: 149949 Bad Clusters: 0 Total Free Space: 599796 Max. Contiguous Free Space: 517336 Files: 431 Folders: 0 Bytes in Files: 1323558 Lost Chains: 0 Bytes in Lost Chains: 0 ;</pre>
<p><b>16</b> <input type="checkbox"/></p>	<p>Remove the removable drives from the active and standby MASP. Update the label with release and database level. Store in a safe place for later use</p>	
<p><b>17</b> <input type="checkbox"/></p>	<p>Issue the command to initialize the active MASP.</p>	<p><b>init-card:loc=xxxx</b></p> <p><i>(Where XXXX is the location of the active E5-MASP)</i></p>
<p><b>18</b> <input type="checkbox"/></p>	<p>Response to the initialize command is displayed</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y init-card:loc=xxxx Command entered at terminal #10. ; eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y ** 6573.0013 ** CARD XXXX OAMHC Card is isolated from the system     ASSY SN: xxxxxxxxxxxx ; eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y 6577.0014 CARD XXXX OAMHC Card is present     ASSY SN: xxxxxxxxxxxx ;</pre>
<p><b>19</b> <input type="checkbox"/></p>	<p>Issue the command to log in to the EAGLE terminal.</p>	<p><b>login:uid=xxxxxx</b></p> <p><i>(Where xxxxxx is your login ID)</i></p>
<p><b>20</b> <input type="checkbox"/></p>	<p>Response to login command is displayed.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y User logged in on terminal X ;</pre>
<p><b>21</b> <input type="checkbox"/></p>	<p>Issue the command to activate capture.</p>	<p><b>act-echo:trm=P</b></p> <p><i>(Where P is a terminal port used in Procedure 3.2, Step 5)</i></p>
<p><b>22</b> <input type="checkbox"/></p>	<p>Response to activate command is displayed.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y Scroll Area Output will be echoed to Terminal X. ;</pre>
<p><b>23</b> <input type="checkbox"/></p>	<p>Repeat Steps 8-11 for the formerly-active TDM.</p>	
<p><b>24</b> <input type="checkbox"/></p>	<p>All steps in this procedure were completed.</p>	

## 3.20 Testing IMT Status

### Procedure 20: Testing IMT Buses

S T E P #	<p><b>This procedure tests that the IMT Buses are healthy.</b></p> <p><b>This procedure should be executed in a maintenance window. If it cannot be done in a maintenance window, then this procedure needs to be rescheduled.</b></p> <p><b>If no on-site personnel are available, then step 14 needs to be rescheduled.</b></p>	
<input type="checkbox"/> 1	Issue the command to report the status of the IMT buses.	<b>rept-stat-imt:mode=full</b>
<input type="checkbox"/> 2	Response to report IMT status command is displayed.	<pre>eaglestp YY-MM-DD HH:MM:SS tzone Rel XX.X.X-YY.Y.Y IMT  PST      SST      AST A    IS-NR    Active   ----- ALARM STATUS      = No Alarms.  IMT  PST      SST      AST B    IS-NR    Active   ----- ALARM STATUS      = No Alarms. Command Completed. ;</pre>
<input type="checkbox"/> 3	If in a maintenance window, issue the command to inhibit the IMT bus.	<b>inh-imt:bus=A</b>
<input type="checkbox"/> 4	Response to inhibit IMT bus command is displayed.	<pre>eaglestp YY-MM-DD HH:MM:SS tzone Rel XX.X.X-YY.Y.Y Inhibit IMT Bus A command issued ;  eaglestp YY-MM-DD HH:MM:SS tzone Rel XX.X.X-YY.Y.Y 0401.0098   IMT BUS A             IMT inhibited ;</pre>
<input type="checkbox"/> 5	Issue the command to test the IMT bus.	<b>tst-imt:type=faulttest:bus=A</b>
<input type="checkbox"/> 6	<p>Response to test IMT bus command is displayed.</p> <p>“Test Passed” message displayed.</p>	<pre>eaglestp YY-MM-DD HH:MM:SS tzone Rel XX.X.X-YY.Y.Y IMT Fault Isolation Bus A Fault Location   Probable Cause   Failure(s) No Faults Found                               All Tests Passed ;</pre>
<input type="checkbox"/> 7	Issue the command to allow the IMT bus.	<b>alw-imt:bus=A</b>
<input type="checkbox"/> 8	Response to allow IMT bus command is displayed.	<pre>eaglestp YY-MM-DD HH:MM:SS tzone Rel XX.X.X-YY.Y.Y Allow IMT Bus A command issued ;  eaglestp YY-MM-DD HH:MM:SS tzone Rel XX.X.X-YY.Y.Y 0403.0097   IMT BUS A             IMT allowed ;</pre>
<input type="checkbox"/> 9	Issue the command for the Extended BERT test.	<b>tst-imt:type=extbert:time=10:bus=A</b>
<input type="checkbox"/> 10	<p>Response to test IMT bus command is displayed.</p> <p>Otherwise, error “E4765 Cmd Rej: Obsolete MUX cards detected in the system” is displayed when the hardware is invalid for this command.</p>	<pre>eaglestp YY-MM-DD HH:MM:SS tzone Rel XX.X.X-YY.Y.Y Extended BERT: Command in progress... ;  eaglestp YY-MM-DD HH:MM:SS tzone Rel XX.X.X-YY.Y.Y Extended BERT: Target Bus A will be inhibited ;  eaglestp YY-MM-DD HH:MM:SS tzone Rel XX.X.X-YY.Y.Y 5042.0098   IMT BUS A             IMT inhibited ;  eaglestp YY-MM-DD HH:MM:SS tzone Rel XX.X.X-YY.Y.Y Extended BERT: Active MASP will be reconnected on Bus A ;  eaglestp YY-MM-DD HH:MM:SS tzone Rel XX.X.X-YY.Y.Y Extended BERT: Extended processing time required. Results will be displayed on test completion. ;  eaglestp YY-MM-DD HH:MM:SS tzone Rel XX.X.X-YY.Y.Y Command Completed. ;</pre>

## Procedure 20: Testing IMT Buses

<input type="checkbox"/>	<p>“PASS” messages displayed in BERT Status column.</p>	<p>After 10 minutes:</p> <pre>eaglestp YY-MM-DD HH:MM:SS tzone Re1 XX.X.X-YY.Y.Y Extended Bit Error Rate Test Bus A MAX ERROR = 20      TIME = 00:10:00      START TIME = 12:10:30 TEST STATUS = PASS  CARD  TYPE      SERIAL_NUMBER  BERT_STATUS  BIT_ERROR  ERRORED_SEC  DURATION 1110  HIPR2        10208345012   PASS         3          2            01:00:00 1210  HIPR2        10208345031   PASS         2          1            01:00:00 1310  HIPR2        10208345052   PASS         5          3            01:00:00</pre> <p>;</p> <pre>eaglestp YY-MM-DD HH:MM:SS tzone Re1 XX.X.X-YY.Y.Y Extended BERT: Target Bus A will be allowed</pre> <p>;</p> <pre>eaglestp YY-MM-DD HH:MM:SS tzone Re1 XX.X.X-YY.Y.Y 5042.0098      IMT BUS A      IMT allowed</pre>
<b>11</b> <input type="checkbox"/>	<p>Issue the status command for the IMT buses.</p>	<pre>rept-stat-imt:mode=full</pre>
<b>12</b> <input type="checkbox"/>  <input type="checkbox"/>	<p>Response to IMT bus status command is displayed.</p> <p>Verify that bus has returned to IS-NR.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y IMT  PST      SST      AST A    IS-NR    Active   ----- ALARM STATUS      = No Alarms.  IMT  PST      SST      AST B    IS-NR    Active   ----- ALARM STATUS      = No Alarms. Command Completed.</pre> <p>;</p>
<b>13</b> <input type="checkbox"/>	<p>Repeat Steps 3 – 12 for IMT Bus B.</p>	<p>Repeat command in order to test IMT Bus B</p>
<b>14</b> <input type="checkbox"/>	<p>If upgrading to Release 46.4 or later from Release 46.3 or prior; visually inspect the IMT cables. If cables are incorrect, this procedure fails.<sup>11</sup></p>	<p><b>Note:</b> all IMT cables in the system need to be the high-speed fiber-channel cables (P/N 830-1344-xx.) Review all part numbers for all IMT cables present in the system.</p>
<b>15</b> <input type="checkbox"/>	<p>All steps in this procedure were completed.</p>	

<sup>11</sup> If the correct cables are not installed, then steps must be followed to ensure that the cables have been properly installed and operation of IMT buses at 2.5Gbps is verified. See "Cabling" in Hardware Reference and "Activating the HIPR2 High Rate Mode Feature" in Database Administration - System Management for more information. This activity needs to be performed during a maintenance window.

### 3.21 Verifying Fixed and Removable Media (Part 2)

#### Procedure 21: Verifying Fixed Disks and Removable Media Function with TST-DISK

S T E P #	This procedure verifies that EAGLE fixed disks and removable media are accessible and in proper working order. Disks will be exercised by issuing test disk and backup commands. If no on-site personnel are available to insert the source release removable media then this procedure needs to be rescheduled. This procedure must be done in a maintenance window.	
1	<input type="checkbox"/> Verify that a <b>source release removable media</b> is inserted in the active MASP.  If in a maintenance window, issue the command to display card status.	<pre>rept-stat-card:apl=oam</pre>
2	<input type="checkbox"/> Response to card status command is displayed.  <input type="checkbox"/> Determine which MASP is currently Standby by looking in the column labeled SST.  Record the locations of the MASPs:  Active MASP _____  Standby MASP _____	<pre>eaglestp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y CARD  VERSION  TYPE      GPL      PST      SST      AST 1113  XXX-XXX-XXX E5MCAP   OAMHC   IS-NR    Standby  ----- 1115  XXX-XXX-XXX E5MCAP   OAMHC   IS-NR    Active   -----  Command Completed.</pre>
3	<input type="checkbox"/> Remove Standby E5MASP from the system.	<input type="checkbox"/> Slide the MASP H/S switch (SW3) on the standby MASP up to the unlocked position (Wait for all drive LEDs to transition to a steady blue).  <input type="checkbox"/> Remove the standby E5MASP card determined in step 2
4	<input type="checkbox"/> Issue the command to report clock status.	<pre>rept-stat-clk:mde=full</pre>
5	<input type="checkbox"/> Response to clock status command is displayed.  <input type="checkbox"/> Verify that all cards are using the clock on the other E5MASP.	<pre>eaglestp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y COMPOSITE                                PST      SST      AST SYSTEM CLOCK                             IS-ANR   Idle    ----- ALARM STATUS = No Alarms. Primary Comp Clk 1114 (CLK A) IS-NR    Active Primary Comp Clk 1116 (CLK B) IS-NR    Idle Secondary Comp Clk 1114 (CLK A) IS-NR    Idle Secondary Comp Clk 1116 (CLK B) IS-NR    Idle  Clock      Using      Bad CLK A      3              0 CLK B      0              3 CLK I      0              --  HIGH SPEED                                PST      SST      AST SYSTEM CLOCK                             IS-NR   Idle    ----- ALARM STATUS = No Alarms. Primary HS Clk 1114 (HS CLK A) IS-NR    Active Primary HS Clk 1116 (HS CLK B) IS-NR    Idle Secondary HS Clk 1114(HS CLK A) IS-NR    Idle Secondary HS Clk 1116(HS CLK B) IS-NR    Idle  HS CLK TYPE 1114      = RS422 HS CLK LINELEN 1114  = ----- HS CLK TYPE 1116      = RS422 HS CLK LINELEN 1116  = -----  Clock      Using      Bad HS CLK A    0              0 HS CLK B    0              0 HS CLK I    0              --  Cards with bad clock source: CARD          CLK A      CLK B      HS CLK A    HS CLK B ----- 1103          Active     Fault      ----- 1105          Active     Fault      ----- 1113          Active     Fault      -----  Command Completed.</pre>

**Procedure 21: Verifying Fixed Disks and Removable Media Function with TST-DISK**

<input type="checkbox"/>   	Place spare E5MASP in system.	<input type="checkbox"/> Insert the spare E5MASP card  <input type="checkbox"/> Slide the MASP H/S switch (SW3) on the standby MASP down to the locked position (Wait for the MASP H/S LED to transition from blinking blue to off and the MASP to come up in standby mode).
<input type="checkbox"/>	Display database version information.	<b>rept-stat-db:display=version</b>
<input type="checkbox"/>  <input type="checkbox"/>	Verify that the standby TDM contains the same database version as the active.  <b>If the database version on the standby disk is not the same as the active disk, stop the procedure and contact My Oracle Support.</b>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE5 XX.x.x-YY.yy.y DATABASE STATUS: &gt;&gt; NOT OK (DMS) &lt;&lt;       TDM 1114 ( ACTV )                TDM 1116 ( STDBY)       C   LEVEL      TIME LAST BACKUP  C   LEVEL      TIME LAST BACKUP ----- FD BKUP Y   XXXXXX YY-MM-DD hh:mm:ss TTT  Y   ZZZZZZ YY-MM-DD hh:mm:ss TTT FD CRNT Y   XXXXXX                               Y   ZZZZZZ DIFF LEVEL       MCAP 1113                               MCAP 1115 ----- RD BKUP Y   XXXXXX YY-MM-DD hh:mm:ss TTT  -   -   - USB BKP  -   -   -                               -   -   -  CARD/APPL  LOC  C  T  LEVEL      TIME LAST UPDATE  VERSION STATUS ----- OAM-RMV    1113  -  -  -           -           - OAM-USB    1113  -  -  -           -           - TDM-CRNT   1114  Y  N  XXXXXX    YY-MM-DD hh:mm:ss  XXX-XXX-XXX  NORMAL TDM-BKUP   1114  Y  -  XXXXXX    YY-MM-DD hh:mm:ss  XXX-XXX-XXX  NORMAL OAM-RMV    1115  -  -  -           -           - TDM-CRNT   1116  Y  N  ZZZZZZ    YY-MM-DD hh:mm:ss  XXX-XXX-XXX  NORMAL TDM-BKUP   1116  Y  -  ZZZZZZ    YY-MM-DD hh:mm:ss  XXX-XXX-XXX  NORMAL</pre>
<input type="checkbox"/>	Issue the command to verify the GPL versions.	<b>rtrv-gp1</b>
<input type="checkbox"/>  <input type="checkbox"/>	Response to retrieve GPL command is displayed.  Verify the column between the Approved and Trial shows no alarms for the Standby TDM that was recorded in Step 2. If an alarm is found, go to step 11. Otherwise, go to Step 13.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE5 XX.x.x-YY.yy.y BLMCAP    1114  XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX BLMCAP    1116  XXX-XXX-XXX  XXX-XXX-XXX  ALM XXX-XXX-XXX  XXX-XXX-XXX BLMCAP    1113  ----- OAMHC     1114  XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX OAMHC     1116  XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX OAMHC     1113  ----- HIPR2     1114  XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX HIPR2     1116  XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX HIPR2     1113  ----- HIPR      1114  XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX HIPR      1116  XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX HIPR      1113  ----- SS7HC     1114  XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX SS7HC     1116  XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX SS7HC     1113  ----- BLBIOS    1114  133-043-000  133-043-000  133-043-000  133-043-000 BLBIOS    1116  133-043-000  133-043-000  133-043-000  133-043-000 BLBIOS    1113  ----- BLCPLD    1114  133-055-000  133-055-000  133-055-000  133-055-000 BLCPLD    1116  133-055-000  133-055-000  133-055-000  133-055-000 BLCPLD    1113  ----- GLSHC     1114  XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX GLSHC     1116  XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX  XXX-XXX-XXX GLSHC     1113  -----</pre>
<input type="checkbox"/>	Issue the command to copy GPLs.	<b>copy-gp1:sloc=yyyy:dloc=xxxx</b> <i>(Where yyyy is the active MASP(1113/1115) and xxxx is the standby TDM (1114/1116) location recorded in step 2)</i>
<input type="checkbox"/>  <input type="checkbox"/>	Response to copy GPL command is displayed.  Verify command completes successfully.	<pre>eaglestp YY-MM-DD hh:mm:ss TTT PPP XX.x.x-YY.y.y COPY GPL:  MASP B - COPY STARTS FROM REMOVABLE CARTRIDGE TO STANDBY TDM COPY GPL:  MASP B - COPY TO STANDBY TDM COMPLETE</pre>
<input type="checkbox"/>	Issue the command to repair the standby disk.	<b>chg-db:action=repair</b>
<input type="checkbox"/>	Response to repair command is displayed.  <b>This command may take up to 45 minutes to complete</b>	<pre>eaglestp YY-MM-DD hh:mm:ss TTT PPP XX.x.x-YY.y.y BACKUP (FIXED): MASP B - Repair starts on standby MASP.</pre> <pre>sysint211 98-03-09 18:07:59 EST Rel XX.X.X BACKUP (FIXED): MASP B - Repair on standby MASP to fixed disk complete.</pre>
<input type="checkbox"/>	Issue the commands to display disk directory of the standby MASP.	<b>disp-disk-dir:loc=xxxx</b> <i>(Where xxxx is the standby MASP disk slot)</i>

**Procedure 21: Verifying Fixed Disks and Removable Media Function with TST-DISK**

<p><input type="checkbox"/> 16</p> <p><input type="checkbox"/></p>	<p>Response to display disk directory command is displayed.</p> <p>Verify command completes successfully.</p> <p><i>Note that the output data may vary from this example.</i></p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTT PPP XX.x.x-YY.y.y  DISP-DISK-DIR  Loc=1114  Dev = FIXED(Active) Filename      Ext        Length DMS1024      CFG        32768 dbstat       bkp        47662 dbstat       tbl        47662 ipas         tbl        262090 mcfg         bkp        156 mcfg         tbl        156  (Additional files listed ...)</pre> <pre>File(s) : 465  Bytes : 1925810639 Disk Size (MB) : 7515</pre>
<p><input type="checkbox"/> 17</p>	<p>Issue this command to test the fixed disk.</p>	<p><b>tst-disk:partition=all:loc=XXXX</b></p> <p><i>(Where XXXX is the standby MASP disk slot recorded in step 2)</i></p>
<p><input type="checkbox"/> 18</p> <p><input type="checkbox"/></p>	<p>Response to the test disk command is displayed.</p> <p>Verify that there are no errors and retries are indicated.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y  TST-DISK RESULTS: Total Clusters: 149949 Free Clusters: 149949 Bad Clusters: 0 Total Free Space: 599796 Max. Contiguous Free Space: 517336 Files: 431 Folders: 0 Bytes in Files: 1323558 Lost Chains: 0 Bytes in Lost Chains: 0</pre>
<p><input type="checkbox"/> 19</p>	<p>Remove the removable drives from the active and standby MASP. Update the label with release and database level. Store in a safe place for later use.</p>	
<p><input type="checkbox"/> 20</p>	<p>Issue the initialize card command for the active MASP.</p>	<p><b>init-card:loc=XXXX</b></p> <p><i>(Where for the first time executing this command, XXXX is the location of the active MASP recorded in step 2; where for the second time executing this command, XXXX is the location of the standby MASP recorded in step 2)</i></p>
<p><input type="checkbox"/> 21</p>	<p>Response to the initialize command is displayed.</p>	<pre>* eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y 0261.0013 * CARD XXXX OAM Card is isolated from the system ASSY SN: xxxxxxxx ; eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y 5038.0014 CARD XXXX OAM Card is present ASSY SN: xxxxxxxx ;</pre>
<p><input type="checkbox"/> 22</p>	<p>Issue the command to log in to the EAGLE terminal.</p>	<p><b>login:uid=XXXXXX</b></p> <p><i>(Where XXXXXX is your login ID)</i></p>
<p><input type="checkbox"/> 23</p>	<p>Response to login command is displayed.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y User logged in on terminal X ;</pre>
<p><input type="checkbox"/> 24</p>	<p>Issue the command to activate capture. Refer to Section 2.1.2 for information on how to set up terminals for data capture.</p>	<p><b>act-echo:trm=P</b></p> <p><i>(Where P is a terminal port used in Procedure 3.2, Step 5)</i></p>
<p><input type="checkbox"/> 25</p>	<p>Response to activate command is displayed.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y act-echo:trm=P Command entered at terminal #X. ; eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y Scroll Area Output will be echoed to Terminal X. ;</pre>
<p><input type="checkbox"/> 26</p>	<p>Issue the command to report the status of the MDAL.</p>	<p><b>rept-stat-card:loc=1117</b></p>

**Procedure 21: Verifying Fixed Disks and Removable Media Function with TST-DISK**

<p>27 <input type="checkbox"/></p>	<p>Response to the status command is displayed.  Verify that status is IS-NR.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE5 XX.x.x-YY.yy.y CARD VERSION TYPE APPL PST SST AST 1117 ----- E5MDAL IS-NR Active ----- Command Completed.</pre>
<p>28 <input type="checkbox"/></p>	<p>Repeat Steps 20-27.  If second time executing this step, continue to next step.</p>	
<p>29 <input type="checkbox"/></p>	<p>Inhibit the standby MASP so that the spare MASP may be removed from the system.</p>	<p><b>inh-card:loc=XXXX</b> <i>(where XXXX is the location of the standby MASP.)</i></p>
<p>30 <input type="checkbox"/>  <input type="checkbox"/></p>	<p>Response to the inhibit command is displayed  Verify UAM 514 is displayed.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y Card is inhibited.</pre> <pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y ** 7991.0514 ** CARD xxxx OAMHC Standby MASP is inhibited</pre> <p><b>Wait for card to boot and return to the IMT bus.</b></p>
<p>31 <input type="checkbox"/></p>	<p>Remove Standby E5MASP from the system.</p>	<p><input type="checkbox"/> Slide the MASP H/S switch (SW3) on the standby MASP up to the unlocked position (Wait for all drive LEDs to transition to a steady blue).</p> <p><input type="checkbox"/> Remove the standby E5MASP card; the location specified in Step 24</p> <p><input type="checkbox"/> Insert the spare E5MASP card</p> <p><input type="checkbox"/> Slide the MASP H/S switch (SW3) on the standby MASP down to the locked position (Wait for the MASP H/S LED to transition from blinking blue to off and the MASP to come up in standby mode).</p>

**Procedure 21: Verifying Fixed Disks and Removable Media Function with TST-DISK**

<p><b>32</b> <input type="checkbox"/></p>	<p>Issue the allow card to bring the standby MASP in service.</p>	<p><b>a1w-card:1oc=xxxx</b> (where xxxx is the location of the standby MASP specified in step 32)</p>
<p><b>33</b> <input type="checkbox"/></p>	<p>Response to allow card is displayed.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y Card has been allowed. ;  eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y 1798.0014 CARD XXXX OAM Card is present ASSY SN: 10202081389 ;</pre>
<p><b>34</b> <input type="checkbox"/></p>	<p>Display database version information.</p>	<p><b>act-upgrade:action=dbstatus</b></p>
<p><b>35</b> <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/></p>	<p>Verify that the standby MASP contains the same database version as the active.</p> <p><b>If the database version on the standby disk is not the same as the active disk, first repeat previous step and then contact My Oracle Support.</b></p> <p>If target release was downloaded, verify the version of the inactive partition is that of the upgrade target release, the database level is “1” and the coherency is “Y”. If otherwise, contact My Oracle Support.</p>	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE5 XX.x.x-YY.yy.y VERSION PST SST AST DATABASE STATUS: &gt;&gt; OK &lt;&lt; TDM 1114 ( STDBY) TDM 1116 ( ACTV ) C LEVEL TIME LAST BACKUP C LEVEL TIME LAST BACKUP ----- FD BKUP Y 148913 12-10-09 04:49:11 GMT Y 148913 12-10-09 04:49:11 GMT FD CRNT Y 148913 Y 148913 MCAPI 1113 MCAPI 1115 RD BKUP - - - - - - - - - - USB BKP - - - - - - - - - -  CARD/APPL LOC C T LEVEL TIME LAST UPDATE VERSION STATUS ----- OAM-RMV 1113 - - - - - - - TDM-CRNT 1114 Y N 148913 12-10-09 04:47:40 ZZZ-ZZZ-ZZZ NORMAL TDM-BKUP 1114 Y - 148913 12-10-09 04:47:40 ZZZ-ZZZ-ZZZ NORMAL OAM-RMV 1115 - - - - - - - OAM-USB 1115 - - - - - - - TDM-CRNT 1116 Y N 148913 12-10-09 04:47:40 ZZZ-ZZZ-ZZZ NORMAL TDM-BKUP 1116 Y - 148913 12-10-09 04:47:40 ZZZ-ZZZ-ZZZ NORMAL  INACTIVE PARTITION GROUP CARD/APPL LOC C T LEVEL TIME LAST UPDATE VERSION STATUS ----- TDM-CRNT 1114 Y - 1 00-00-00 00:00:00 XXX-XXX-XXX NORMAL TDM-BKUP 1114 Y - 1 00-00-00 00:00:00 XXX-XXX-XXX NORMAL TDM-CRNT 1116 Y - 1 00-00-00 00:00:00 XXX-XXX-XXX NORMAL TDM-BKUP 1116 Y - 1 00-00-00 00:00:00 XXX-XXX-XXX NORMAL ;</pre>
<p><b>36</b> <input type="checkbox"/></p>	<p>All steps in this procedure were completed.</p>	



### 3.22 Table Capacity Status

The following procedure is for data collection only. It does not have any pass fail criteria and does not include command response output.

#### Procedure 22: Collect Table Capacity Status

S T E P #	This procedure collects the current capacity of certain database tables. Upon analysis of the health check data capture, it is the goal of this procedural to identify if table capacity is approaching any limitation prior to any impact on the EAGLE's performance.	
1 <input type="checkbox"/>	Issue the following command.	<b>rtrv-ls</b>
2 <input type="checkbox"/>	Issue the following command.	<b>rtrv-tbl-capacity</b>
3 <input type="checkbox"/>	Issue the following command.	<b>rept-stat-sys</b>
4 <input type="checkbox"/>	If EGTT feature is on, go to Step 6. If GTT feature is on (refer to Procedure 3.2, Step 12), issue the following command. Otherwise, go to the end of this procedure	<b>rtrv-tt</b>
5 <input type="checkbox"/>	Issue the following command.	<b>rtrv-gtt:type=XX</b> <i>(Where XX is any Type displayed in step 4)</i>
6 <input type="checkbox"/>	If any LNP feature is on, issue the following command.	<b>rtrv-lnp-serv</b>
7 <input type="checkbox"/>	Issue the following command.	<b>rtrv-cspc</b>
8 <input type="checkbox"/>	Issue the following command.	<b>rtrv-npp-srs</b>

### 3.23 Health Check Conclusion

#### Procedure 23: Return the System to Former Configuration

S T E P #	This procedure returns the EAGLE to the configuration prior to the start of this health check.	
1 <input type="checkbox"/>	Issue the command to changes the user's terminal output group configuration.	<b>chg-trm:trm=P:YYY=yes,ZZZ=no</b> (Where P is the location of the printer terminal recorded in Procedure 3.2, Step 4.) ( YYY is an output group that was recorded in Procedure 3.2, Step 4.) ( ZZZ is another output group that was recorded in Procedure 3.2, Step 4.)
2 <input type="checkbox"/>	Response to change terminal command is displayed.	eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y chg-trm:trm=P:YYY=yes,ZZZ=no Command entered at terminal #X. ;  eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y CHG-TRM: MASP A - COMPLTD
3 <input type="checkbox"/>	Issue the command to changes the user's terminal output group configuration.	<b>chg-trm:trm=X:YYY=yes,ZZZ=no:TMOUT=TTT</b> (Where X is the location of the user's terminal recorded in Procedure 3.2, Step 4.) ( YYY is an output group that was recorded in Procedure 3.2, Step 4.) ( ZZZ is another output group that was recorded in Procedure 3.2, Step 4.) ( TTT is the timeout value that was recorded in Procedure 3.2, Step 4
4 <input type="checkbox"/>	Response to change terminal command is displayed.	eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y chg-trm:trm=X:YYY=yes,ZZZ=no Command entered at terminal #X. ;  eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y CHG-TRM: MASP A - COMPLTD
5 <input type="checkbox"/>	Issue the command to cancel capture.	<b>canc-echo:trm=P</b> (Where P is a terminal port that was recorded in Procedure 3.2, Step 4)
6 <input type="checkbox"/>	Response to cancel command is displayed.	eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y canc-echo:trm=P Command entered at terminal #X. ;  eaglestp 98-03-09 08:29:26 EST Rel XX.X.X-YY.Y.Y Scroll Area Output echo disabled for terminal X.
7 <input type="checkbox"/>	All steps in this procedure were completed.	

#### **4. COMPLETION OF HEALTH CHECK**

When the System Health Check has been completed, record all procedures completed, data along with the date into Table 2. Health Check Record on page 8. Contact your local Oracle Global Customer Support Center (<http://www.oracle.com/support/contact.html>) if any failed procedures. Be prepared to identify your Release level, which procedures failed, and at what point each procedure failed.

## APPENDIX A. MY ORACLE SUPPORT



**CAUTION:** Use only the guide downloaded from Oracle Help Center (OHC) (<https://docs.oracle.com/en/industries/communications/index.html>).

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.

My Oracle Support is available 24 hours a day, 7 days a week, 365 days a year.