

**Oracle® Communications
EAGLE**

System Health Check Guide

Release 45.0 and later

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ORACLE®

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

TABLE OF CONTENTS

1. INTRODUCTION	5
1.1 Purpose and Scope	5
1.2 References	5
1.3 Acronyms	6
2. GENERAL DESCRIPTION	7
2.1 Recommendations for Performing Health Check	7
2.2 Health Check Record	7
2.3 Health Check Type	8
3. PROCEDURES	9
3.1 Pre-Health Check Requirements	9
3.2 Health Check Preparation	10
3.3 General System Status	14
3.4 Report System Troubles	25
3.5 Verifying Database Status	27
3.6 Verifying GPLs	29
3.7 Retrieving Obituaries	30
3.8 Verify SCCP Load	31
3.9 Verifying LNP and LSMS	36
3.10 Verifying SEAS	38
3.11 Verifying optional features	39
3.12 Verifying IP Signaling Status	43
3.13 Verifying EROUTE	44
3.14 Verifying IMT Status	48
3.15 Retrieving Trouble Data	50
3.16 Verifying Clock Status	51
3.17 Verifying MPS	52
3.18 Verify Source Database	53
3.19 Verifying Fixed and Removable Media (Part 1)	62
3.20 Testing IMT Status	65
3.21 Verifying Fixed and Removable Media (Part 2)	67
3.22 Table Capacity Status	72
3.23 Health Check Conclusion	73
4. COMPLETION OF HEALTH CHECK	74
APPENDIX A. MY ORACLE SUPPORT	75

List of Tables

Table 1. Acronyms.....	6
Table 2. Health Check Record.....	8
Table 3. Health Check Type Procedures.....	8
Table 4. Pre-Health Check Requirements.....	9

List of Procedures

Procedure 1: Verifying Pre-Health Check Requirements	9
Procedure 2: Health Check Preparation	10
Procedure 3: Determining General System Status	14
Procedure 4: Reporting System Troubles	26
Procedure 5: Verifying Database Status	27
Procedure 6: Verifying GPLs.....	29
Procedure 7: Retrieving Obituaries.....	30
Procedure 8: Verify SCCP Load.....	31
Procedure 9: Verifying LNP and LSMS	36
Procedure 10: Verifying SEAS	38
Procedure 11: Verifying optional features	39
Procedure 12: Verifying IP Signaling Status	43
Procedure 13: Verifying EROUTE	44
Procedure 14: Verifying IMT Status.....	48
Procedure 15: Retrieving Trouble Data	50
Procedure 16: Verifying Clock Status	51
Procedure 17: Verifying MPS.....	52
Procedure 18: Verify Source Database	53
Procedure 19: Verifying Fixed Disks Functions with TST-DSK	62
Procedure 20: Testing IMT Buses	65
Procedure 21: Verifying Fixed Disks and Removable Media Function with TST-DISK	67
Procedure 22: Collect Table Capacity Status.....	72
Procedure 23: Return the System to Former Configuration	73

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

Acronym	Definition
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.

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
0 Note: The OAMHC GPL is obsolete for EAGLE 46.6 and later releases. 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

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

Table 4. Pre-Health Check Requirements

✓	Tasks to be completed prior to Health Check execution	
		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.

2 ☐	Issue the command to display GPL status.	REPT-STAT-GPL:GPL=OAMHC
3 ☐	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</pre>
☐	If either 1113 or 1115 are not displayed, this procedure fails . Otherwise, continue to next procedure.	<pre> 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 * Command Completed. ;</pre>

Note: The OAMHC GPL is obsolete for EAGLE 46.6 and later releases.

3.2 Health Check Preparation

Procedure 2: Health Check Preparation

S T E P #	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.	login:uid=XXXXXX (where XXXXXX is your login ID)	
2 ☐	Response to login command is displayed.	eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE5 XX.x.x-YY.yy.y User logged in on terminal X ;	
3 ☐	Issue the command to retrieve terminal status.	rtrv-trm	
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.	chg-trm:trm=P:all=yes (where P is the location of the capture terminal recorded in step 4)	

Procedure 2: Health Check Preparation

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>
7	Issue the command to activate capture.	act-echo:trm=P <i>(where P is a capture terminal port that was selected in step 4)</i>
8	Response to activate command is displayed.	<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. ;</pre>
	Verify that the capture terminal is correctly collecting data.	(Caution: loss of output may occur if too many terminals are echoed)
9	Issue the command to change the terminal groups to the optimal settings.	chg-trm:trm=X:all=no:tmout=0:sa=yes:sys=yes:db=yes:dbg=yes <i>(where X is the location of the user's terminal recorded in step 4.)</i>
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>
11	Issue the command to display optional features	rtrv-feat
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 EGT = on VGTT = on MPC = on ITUDUPPC = on MEASPLAT = on TSCSYNC = off E5IS = off ;</pre>

Note: 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.

GTT	ON / OFF	GWS	ON / OFF	NRT	ON / OFF
LAN	ON / OFF	CRMD	ON / OFF	LFS	ON / OFF
MTPRS	ON / OFF	FAN	ON / OFF	DSTN5000	ON / OFF
WNP	ON / OFF	CNCF	ON / OFF	TLNP	ON / OFF
SCCPCNV	ON / OFF	TCAPCNV	ON / OFF	IPISUP	ON / OFF
PLNP	ON / OFF	NCR	ON / OFF	ITUMTPRS	ON / OFF
SLSOCB	ON / OFF	EGTT	ON / OFF	VGTT	ON / OFF
MPC	ON / OFF	ITUDUPPC	ON / OFF	MEASPLAT	ON / OFF
TSCSYNC	ON / OFF	E5IS	ON / OFF		

Procedure 2: Health Check Preparation

13	Issue the command to display feature keys that have been enabled.	rtrv-ctrl-feat
14	Response to the command is displayed. Record if LNP ported TN feature key and LNP ELAP Configuration is on and displayed as well as the current quantity¹. Also record whether the EIR feature is on: LNP ported TN: <u>ON / OFF</u> Quantity: _____ LNP ELAP Config: ON/OFF EIR: ON/OFF 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. TPS Status: <u>ON / OFF</u> Quantity: _____ Temporary TPS Enabled: YES/NO If upgrading to Rel 46.4 or higher & the source release is 46.3 or prior, the HIPR2 High Rate Mode must be on. Otherwise, this procedure fails. ²	<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>
15	Issue the command to retrieve IP security feature key	rtrv-ctrl-feat:partnum=893400001
16	Response to retrieve command is displayed. Note any IP Security Issue that is detected.	<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&M IP Security 893400001 off ---- ***** ***** WARNING IP SECURITY ISSUE DETECTED ***** ***** ** EAGLE OA&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>
17	Issue the command to retrieve serial number for this node.	rtrv-serial-num

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

² 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/licensencodes/tekelec/index.html> can be followed to obtain the FAK for "HIPR2 High Rate Mode" (partnum=893020101) feature.

Procedure 2: Health Check Preparation

18 ☐	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. ;
19 ☐	All steps in this procedure were completed.	

3.3 General System Status

Procedure 3: Determining General System Status

STEP #	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).
1 ☐	Issue the command to display IMT errors. rept-imt-lvl1:r=summary:sloc=1201:eloc=1115
2 ☐	Response to IMT report command is displayed. If UHC2 is being executed, verify that large values are not displayed in any highlighted columns. <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>
3 ☐	Issue the status command for the MUX cards. rept-stat-mux
4 ☐ ☐ ☐ ☐	Response to MUX status command is displayed. Verify that all cards are IS-NR. Record the types of MUX cards displayed (circle all that are applicable): HIPR HIPR2 If upgrade to Rel 46.4 or higher & the source release is 46.3 or prior, then all cards must show HIGH in the BITRATE (ACT) column. Otherwise, this procedure fails.³ <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>

³ 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

5	Issue the report IMT information command. Repeat for all MUX types recorded in Step 4.	<pre>rept-imt-info:report=xxxerr</pre> (where report=hiprerr if HIPR cards were detected in step 4; report=hipr2err is HIPR2 cards were detected in step 4.)
6	Response to report IMT information command is displayed. Note: Output abridged for brevity, Actual output varies based on software release and card type.	<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>
7	Issue the command to clear IMT errors.	<pre>clr-imt-stats:all=yes</pre>
8	Response to clear IMT stats command is displayed.	<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 Rel XX.X.X-x.x.x Clear IMT Statistics command(s) issued... ;</pre>

Procedure 3: Determining General System Status

9 ☐	Issue the command to report system status.	rept-stat-sys
10 ☐ ☐ ☐ ☐ ☐	Response to system status command is displayed. Record the Software Release: REL. _____ Record any card types that are not IS-NR. Investigate and record cards whose status cannot be explained. Card Type: _____ Card Type: _____	<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 CLOCK IS-NR= X Other= X INH= 0 IMT IS-NR= X Other= X 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>
11 ☐	Issue the command to report signaling link status.	rept-stat-slk
12 ☐	Response to report signaling links status command is displayed.	<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>
13 ☐	Issue the command to retrieve card provisioning.	rtrv-card

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 sc6a033i A 0 1106 LIME1 CCS7ITU 1108 MCPM MCP 1111 ENET IPSG lg1111a00 A 0 lg1111i01 A1 0 lg1111n02 A2 0 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 lg1111a00 A 2 lg1111i01 A1 2 lg1111n02 A2 2 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

16 ☐ ☐ ☐	Response to card status command is displayed. Look for the slot ID of any IS-ANR or OOS-MT status cards. Ensure that any cards in this state can be explained. Record the card 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 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 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>
17 ☐	Issue the command to report card status.	<pre>rept-stat-card:loc=XXX:mode=full (where XXXX is the slot ID of any card that is IS-ANR or OOS-MT in step 16)</pre>
18 ☐	Response to card status command is displayed.	<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>
19 ☐	Repeat steps 17 – 18 for all cards that were IS-ANR or OOS-MT in step 16.	
20 ☐	Issue the command to display the version of the GPLs running on the system.	<pre>rept-stat-gpl:display=all</pre>

Procedure 3: Determining General System Status

21	Response to GPL status command. 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. 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.	eaglestp YY-MM-DD hh:mm:ss zzza EAGLE XX.x.x-YY.y.y GPL Auditing ON <table><tr><td>GPL</td><td>CARD</td><td>RUNNING</td><td>APPROVED</td><td>TRIAL</td><td></td></tr><tr><td>OAMHC69</td><td>1113</td><td>145-025-000</td><td>145-025-000</td><td>-----</td><td>*</td></tr><tr><td></td><td>BLDC32</td><td>145-023-000</td><td>145-023-000</td><td>145-023-000</td><td></td></tr><tr><td>OAMHC69</td><td>1115</td><td>145-025-000</td><td>145-025-000</td><td>-----</td><td>*</td></tr><tr><td></td><td>BLDC32</td><td>145-023-000</td><td>145-023-000</td><td>145-023-000</td><td></td></tr><tr><td>HIPR2</td><td>1109</td><td>145-002-000</td><td>145-002-000</td><td>145-002-000</td><td></td></tr><tr><td>HIPR2</td><td>1110</td><td>145-002-000</td><td>145-002-000</td><td>145-002-000</td><td></td></tr><tr><td>HIPR2</td><td>1209</td><td>145-002-000</td><td>145-002-000</td><td>145-002-000</td><td></td></tr><tr><td>HIPR2</td><td>1210</td><td>145-002-000</td><td>145-002-000</td><td>145-002-000</td><td></td></tr><tr><td>SFAPP</td><td>1107</td><td>145-025-000</td><td>145-025-000</td><td>145-025-000</td><td></td></tr><tr><td></td><td>BLSLC64</td><td>145-023-000</td><td>145-023-000</td><td>145-023-000</td><td></td></tr><tr><td>SFAPP</td><td>1202</td><td>145-025-000</td><td>145-025-000</td><td>145-025-000</td><td></td></tr><tr><td></td><td>BLSLC64</td><td>145-023-000</td><td>145-023-000</td><td>145-023-000</td><td></td></tr><tr><td>SS7HC</td><td>1101</td><td>145-025-000</td><td>145-025-000</td><td>145-025-000</td><td></td></tr><tr><td></td><td>BLMCAP</td><td>145-023-000</td><td>145-023-000</td><td>145-023-000</td><td></td></tr><tr><td>IPSHC</td><td>1104</td><td>145-025-000</td><td>145-025-000</td><td>145-025-000</td><td></td></tr><tr><td></td><td>BLMCAP</td><td>145-023-000</td><td>145-023-000</td><td>145-023-000</td><td></td></tr><tr><td>IPSG</td><td>1204</td><td>145-025-000</td><td>145-025-000</td><td>145-025-000</td><td></td></tr><tr><td></td><td>BLMCAP</td><td>145-023-000</td><td>145-023-000</td><td>145-023-000</td><td></td></tr><tr><td>IPSG</td><td>1207</td><td>145-025-000</td><td>145-025-000</td><td>145-025-000</td><td></td></tr><tr><td></td><td>BLMCAP</td><td>145-023-000</td><td>145-023-000</td><td>145-023-000</td><td></td></tr><tr><td>IPSG</td><td>1208</td><td>145-025-000</td><td>145-025-000</td><td>145-025-000</td><td></td></tr><tr><td></td><td>BLMCAP</td><td>145-023-000</td><td>145-023-000</td><td>145-023-000</td><td></td></tr><tr><td>IPSG</td><td>1213</td><td>145-025-000</td><td>145-025-000</td><td>145-025-000</td><td></td></tr><tr><td></td><td>BLMCAP</td><td>145-023-000</td><td>145-023-000</td><td>145-023-000</td><td></td></tr><tr><td>IPSG</td><td>1214</td><td>145-025-000</td><td>145-025-000</td><td>145-025-000</td><td></td></tr><tr><td></td><td>BLMCAP</td><td>145-023-000</td><td>145-023-000</td><td>145-023-000</td><td></td></tr><tr><td>IPSG</td><td>1215</td><td>145-025-000</td><td>145-025-000</td><td>145-025-000</td><td></td></tr><tr><td></td><td>BLMCAP</td><td>145-023-000</td><td>145-023-000</td><td>145-023-000</td><td></td></tr><tr><td>IPSG</td><td>1216</td><td>145-025-000</td><td>145-025-000</td><td>145-025-000</td><td></td></tr><tr><td></td><td>BLMCAP</td><td>145-023-000</td><td>145-023-000</td><td>145-023-000</td><td></td></tr><tr><td>IPSG</td><td>1217</td><td>145-025-000</td><td>145-025-000</td><td>145-025-000</td><td></td></tr><tr><td></td><td>BLMCAP</td><td>145-023-000</td><td>145-023-000</td><td>145-023-000</td><td></td></tr><tr><td>IPSG</td><td>1218</td><td>145-025-000</td><td>145-025-000</td><td>145-025-000</td><td></td></tr><tr><td></td><td>BLMCAP</td><td>145-023-000</td><td>145-023-000</td><td>145-023-000</td><td></td></tr><tr><td>SCCP64</td><td>1111</td><td>145-025-000</td><td>145-025-000</td><td>145-025-000</td><td></td></tr><tr><td></td><td>BLSLC64</td><td>145-023-000</td><td>145-023-000</td><td>145-023-000</td><td></td></tr><tr><td>SCCP64</td><td>1211</td><td>145-025-000</td><td>145-025-000</td><td>145-025-000</td><td></td></tr><tr><td></td><td>BLSLC64</td><td>145-023-000</td><td>145-023-000</td><td>145-023-000</td><td></td></tr><tr><td>MCPHC69</td><td>1201</td><td>145-025-000</td><td>145-025-000</td><td>145-025-000</td><td></td></tr><tr><td></td><td>BLDC32</td><td>145-023-000</td><td>145-023-000</td><td>145-023-000</td><td></td></tr><tr><td>MCPHC69</td><td>1203</td><td>145-025-000</td><td>145-025-000</td><td>145-025-000</td><td></td></tr><tr><td></td><td>BLSL932</td><td>145-023-000</td><td>145-023-000</td><td>145-023-000</td><td></td></tr><tr><td>IPSHC69</td><td>1105</td><td>145-025-000</td><td>145-025-000</td><td>145-025-000</td><td></td></tr><tr><td></td><td>BLSL932</td><td>145-023-000</td><td>145-023-000</td><td>145-023-000</td><td></td></tr><tr><td>IPSHC69</td><td>1108</td><td>145-025-000</td><td>145-025-000</td><td>145-025-000</td><td></td></tr><tr><td></td><td>BLSL932</td><td>145-023-000</td><td>145-023-000</td><td>145-023-000</td><td></td></tr></table> Command Completed.	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	
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22	Issue the command to retrieve the shelves	rtrv-shlf																																																																																																																																																																																																																																																																																										
23	Response to retrieve shelf command is displayed.	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																																																																																																																																																																																																																																																																																										
24	Issue the command to retrieve STP.	rtrv-stp																																																																																																																																																																																																																																																																																										
25	Response to retrieve STP command is displayed. Note: output abridged for brevity. This output displays information for one frame only.	eaglestp YY-MM-DD hh:mm:ss zzza EAGLE XX.x.x-YY.y.y <table><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><tr><td>1101</td><td>870-2970-01</td><td>L</td><td>10214192225</td><td>LIME1</td><td>2048M</td><td>SS7HC</td><td>145-025-000</td></tr><tr><td>1102</td><td>Empty</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1103</td><td>Empty</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1104</td><td>870-2971-01</td><td>TG</td><td>10217052393</td><td>IPSM</td><td>2048M</td><td>IPSHC</td><td>145-025-000</td></tr><tr><td>1105</td><td>7094646</td><td>17</td><td>10217302123</td><td>IPSM</td><td>16384M</td><td>IPSHC69</td><td>145-025-000</td></tr><tr><td>1106</td><td>Empty</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1107</td><td>7094646</td><td>17</td><td>10217322156</td><td>SLIC</td><td>16384M</td><td>SFAPP</td><td>145-025-000</td></tr><tr><td>1108</td><td>BIP Data inv</td><td></td><td></td><td>IPSM</td><td>16384M</td><td>IPSHC69</td><td>145-025-000</td></tr><tr><td>1109</td><td>870-2872-02</td><td>F</td><td>10214372130</td><td></td><td></td><td>HIPR2</td><td>145-002-000</td></tr><tr><td>1110</td><td>870-2872-02</td><td>F</td><td>10214372180</td><td></td><td></td><td>HIPR2</td><td>145-002-000</td></tr><tr><td>1111</td><td>7094646</td><td>17</td><td>10217302213</td><td>DSM</td><td>16384M</td><td>SCCP64</td><td>145-025-000</td></tr><tr><td>1112</td><td>Empty</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1113</td><td>870-2903-02</td><td>B</td><td>10212225164</td><td>E5MCAP</td><td>4096M</td><td>OAMHC69</td><td>145-025-000</td></tr><tr><td>1114</td><td>TDM</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1115</td><td>870-2903-01</td><td>N</td><td>10208345081</td><td>E5MCAP</td><td>4096M</td><td>OAMHC69</td><td>145-025-000</td></tr><tr><td>1116</td><td>TDM</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1117</td><td>E5MDAL</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1118</td><td>Empty</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1201</td><td>870-3089-01</td><td>G</td><td>10214025308</td><td>MCPM</td><td>4096M</td><td>MCPHC69</td><td>145-025-000</td></tr></table>	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			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																																																																																																																										
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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 IPSG 145-025-000 1205 Empty 1206 Empty 1207 BIP Data inv ENETB 2048M IPSG 145-025-000 1208 870-2971-01 C 10210255063 ENETB 2048M IPSG 145-025-000 1209 870-2872-01 B 10209125128 HPR2 145-002-000 1210 870-2872-02 F 10214372120 HPR2 145-002-000 1211 7094646 17 10217322039 SLIC 16384M SCCP64 145-025-000 1212 Empty 1213 870-2971-01 M 10212465071 ENETB 2048M IPSG 145-025-000 1214 870-2971-01 N 10213145384 ENETB 2048M IPSG 145-025-000 1215 870-2971-01 N 10213415156 ENETB 2048M IPSG 145-025-000 1216 870-2971-01 C 10210255065 ENETB 2048M IPSG 145-025-000 1217 870-2971-01 TE 10216222178 ENETB 2048M IPSG 145-025-000 1218 870-2971-01 G 10211257067 ENETB 2048M IPSG 145-025-000 ; </pre>
26	Issue the command to retrieve STP.	RTRV-STP:GPL=IPSHC
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 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 Command Completed. ; </pre>
28	Issue the command to retrieve event log.	rtrv-log:dir=bkwd:num=100:mode=full:edate=yymmdd:type=alarm:slog=act (where yymmdd is yesterday's date.)
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.	rtrv-log:next=500

Procedure 3: Determining General System Status

31	Response to retrieve log command is displayed.	<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>
32	Issue the command to retrieve the log for the standby. Repeat steps 30 – 31 until the “end of log reached” message displays.	<pre>rtrv-log:dir=bkwd:num=100:mode=full:edate=yymmdd:type=alarm:slog=stb (where yymmdd is yesterday's date.)</pre>
33	Issue the retrieve log command for the UIM log types. Repeat steps 30 – 31 until the “end of log reached” message displays.	<pre>rtrv-log:dir=bkwd:num=100:mode=full:edate=yymmdd:type=uim:slog=act (where yymmdd is yesterday's date.)</pre>
34	Issue the command to retrieve the STP power level.	<pre>rtrv-stp:display=power</pre>
35	Response to retrieve power frame command is displayed. Note any of the power threshold numbers prefixed with a “+” sign.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.X.X-YY.Y.Y Frame Power Threshold Power Consumption (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>
36	Issue the command to retrieve the threshold alarm levels.	<pre>rtrv-th-alm</pre>
37	Response to retrieve threshold alarm command is displayed.	<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>
38	Issue the command to retrieve the site ID.	<pre>rtrv-sid</pre>

⁴ 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

39	Response to retrieve command is displayed.	<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>
40	Issue the command to retrieve SCTP associations.	rtrv-assoc:display=all
41	The response to the retrieve command is displayed.	<pre> eaglestp YY-MM-DD hh:mm:ss zzzz 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 ip1ma2116bm2pa 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 Appl Sock/Assoc table is (16 of 4000) 1% full </pre>
42	Issue the command to retrieve T1 ports.	rtrv-t1
43	The response to the retrieve command is displayed.	<pre> eaglestp YY-MM-DD hh:mm:ss zzzz 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>
44	Issue the command to retrieve T1 ports.	rtrv-e1
45	The response to the retrieve command is displayed.	<pre> eaglestp YY-MM-DD hh:mm:ss zzzz 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

☐		<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>
46 ☐	Issue the command to report IP TPS usage.	<pre> rept-stat-iptps </pre>
47 ☐	The response to the status command is displayed.	<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 00-00-00 00:00:00 1s2206i01 100% 2400 TX: 0 84 10-03-05 10:41:51 RCV: 0 00-00-00 00:00:00 1s2206i02 100% 2400 TX: 0 85 10-03-05 10:41:51 RCV: 0 00-00-00 00:00:00 1s2206i03 100% 2400 TX: 0 84 10-03-05 10:41:51 RCV: 0 00-00-00 00:00:00 1g1111a00 100% 13280 TX: 0 2883 10-03-08 15:26:06 RCV: 0 00-00-00 00:00:00 1g2305a00 100% 13280 TX: 0 374 10-03-08 17:19:36 RCV: 0 00-00-00 00:00:00 1g1111i01 100% 13280 TX: 0 2883 10-03-08 15:14:06 RCV: 0 00-00-00 00:00:00 1g1315i00 100% 5000 TX: 0 9 10-03-12 20:10:36 RCV: 0 00-00-00 00:00:00 1g5315i00 100% 380 TX: 0 0 00-00-00 00:00:00 RCV: 0 00-00-00 00:00:00 1g1111n02 100% 13280 TX: 0 2883 10-03-08 15:19:06 RCV: 0 00-00-00 00:00:00 1g1316n00 100% 5000 TX: 0 9 10-03-12 20:10:36 RCV: 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>
48 ☐	Issue the command to generate a measurements report.	<pre> rept-meas:enttype=stp:type=mtcd </pre>
49a ☐	If measurement collection is ON, the response to the report command is displayed.	<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, THRSWMSU = 167565746, MTPRESTS = 0, DTAMSULOST = 0, MSINVDPC = 0, MSINVSIO = 0, OMSINVDPC = 0, MSINVLNK = 0, MSINVSIF = 0, MSNACDPC = 78, MSINVSLC = 0, GTTPERFD = 72959128, GTTUNONS = 12096, GTTUNINT = 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>
49b ☐	If measurement collection is OFF, the response to the report command is displayed.	<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 Measurement data are not current. ; </pre> Note: This parameter (chg-meas:collect) does not affect measurements collection and generation for the Measurements Platform. It only activates or

Procedure 3: Determining General System Status

	deactivates the reporting of scheduled measurements to the UI for the Measurements Platform.	
50 ☐	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

S T E P #	This procedure examines non-network system troubles that should be corrected (See examples above.)	
1 ☐	Issue the command to report trouble status.	rept-stat-trbl:display=timestamp
2 ☐	Response to trouble status command is displayed. Record any non-network troubles. Trouble _____	<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>
3 ☐	Issue the command to report inhibited alarms	rept-stat-alm:display=inhb
4 ☐	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>
5 ☐	All steps in this procedure were completed.	

3.5 Verifying Database Status

Procedure 5: Verifying Database Status

STEP #	This procedure verifies that your database is coherent, not in transition and that all cards are running at the same database level.
1 ☐	Perform this step only if on-site personnel are available. If no personnel are available then go to step 2. Insert a current release system removable media into the system. For E5-MASP, insert a thumbdrive USB in the Active MASP's latched USB port.
2 ☐	Issue the command to report database status. rept-stat-db:display=all
3 ☐ ☐ ☐ ☐	Response to database command is displayed if running E5 MASP. (OAM-USB status is only shown for the active MASP) Examine the columns labeled C, T and LEVEL output by this command. All entries in C should be coherent which is indicated by a Y. 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. 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. <pre> eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y DATABASE STATUS: >> OK << TDM 1114 (STDBY) 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 MCAP 1113 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>
4 ☐	Send a distributed network database (DDB) audit request to the active OAM. aud-data:type=ddb:display=all

Procedure 5: Verifying Database Status

5 ☐	Response to the aud-data command is displayed.	<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 GLOBL 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>
6 ☐	All steps in this procedure were completed.	

3.6 Verifying GPLs

Procedure 6: Verifying GPLs

STEP #	This procedure verifies that all GPLs are correctly distributed throughout the system, including fixed disks and removable media.						
1	Issue the command to display GPL status.	rtrv-gp1					
2	Response to retrieve GPL command is displayed	eaglestp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y GPL Auditing ON					
	Verify that all GPLs in the APPROVED, TRIAL, and REMOVE TRIAL columns match those in the RELEASE column.	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	-----	-----	-----	-----
		{output abridged for brevity.}					
3	Issue the command to display IPLHC GPL status.	REPT-STAT-GPL:GPL=IPLHC					
4	Response to GPL status command is displayed.	eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE XX.x.x.x-YY.y.y GPL Auditing ON					
	Note:if any IPLHC card is displayed, at the end of this health check, contact the My Oracle Support.	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.					
		;					
5	Issue the command to display IPGHC GPL status.	REPT-STAT-GPL:GPL=IPGHC					
6	Response to GPL status command is displayed.	eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE XX.x.x.x-YY.y.y GPL Auditing ON					
	Note:if any IPGHC card is displayed, at the end of this health check, contact the My Oracle Support.	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.					
		;					
7	All steps in this procedure were completed.						

3.7 Retrieving Obituaries

Procedure 7: Retrieving Obituaries

STEP #	This procedure retrieves all recently logged obituaries. These obituaries describe the status of the system just before a processor restarted due to a hardware or software failure. The data includes a register and stack dump of the processor, card location, reporting module number, software code location, and class of the fault detected.		
1	Issue the command to retrieve obits from MASP A	rtrv-obit:loc=1113	
2	Response to retrieve obit command is displayed.	<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 Rel 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 : 50 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.	rtrv-obit:loc=1115	
4	Response to retrieve obit command is displayed.	<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 Rel 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. rept-stat-sccp
2	Response to SCCP status command is displayed. 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. SCCP _____ SCCP _____ SCCP _____ E2374: SCCP not configured, displayed if no SCCP feature enabled. <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 USAGE USAGE ----- 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 GTT: 4025 0 0% 0 WARNINGS TO GTT 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 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. rept-stat-sccp:mode=perf
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 USAGE 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	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.	rept-stat-sccp:data=dn
6	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	Repeat steps 5 – 6 for IMSI data.	Repeat the status command specifying: <i>data=imsi</i>
8	Issue the command to display SCCP status.	rept-stat-sccp:data=epap
9	Response to SCCP status is displayed. 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>
10	Issue the command to display SCCP status.	rept-stat-sccp:data=elap

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

12 ☐ ☐	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.	<pre> 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 DPEnd (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 ; </pre>
---	---	---

13 ☐	Repeat steps 10 - 11 for all SCCP cards that are displayed in step 9.	
14 ☐	All steps in this procedure were completed.	

3.9 Verifying LNP and LSMS

Procedure 9: Verifying LNP and LSMS

STEP #		Perform procedure only if LNP feature is on, see Procedure 2, Steps 14
		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. This procedure shall also evaluate the SCCP hardware to determine if an upgrade is valid.
1	Issue the command to display LNP status.	rept-stat-lnp
2	Response to LNP status command is displayed.	<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% LNPMR = 1% LNPQS = 1% AVERAGE CPU USAGE = 1% TOTAL ERRORS: GTT: 0 out of 1603 LNPMR: 0 out of 38 LNPQS: 0 out of 5406 Command Completed. </pre>
	Verify that cards that are supposed to be in service are IS-NR.	
	Verify that there are no errors.	

Procedure 9: Verifying LNP and LSMS

3	Issue the command to display card status.	rept-stat-card:mode=full:loc=XXXX (where XXXX is the location of each SCCP card displayed in Procedure 3.9 Step 2)
4	Response to card status command is displayed. Verify that all cards have at least 4096MB of daughterboard memory.	<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: ----- ---, 5 min: ----- --- 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>
5	If LNP is ON as recorded in Procedure 2 Step 12 then issue the command to retrieve LNP options. Otherwise, go to next procedure.	rtrv-lnpopts
6	Response to LNP options command is displayed. Record audit status: AUD: _____ If LNP auditing is on, go to next procedure.	<pre> eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.X.X-YY.Y.Y LNP OPTIONS ----- AMASLPID = 000000000 INCSLP = no AMACTYPE = 000 AMAFEATID = 000 CIC = 0000 AUD = off SP = FRCSMPLX = no ADMHIPRI = no GTWYSTP = no ; </pre>
7	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.	chg-lnpopts:aud=on
8	Response to LNP options command is displayed.	<pre> eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.X.X-YY.Y.Y CHG-LNPOPTS: MASP A - COMPLTD ; </pre>
9	For UHC#2, the LNP Audit must be allowed to run for at least 24 hours.	NOTE: allow LNP auditing to run for at least 24 hours prior to upgrade.
10	All steps in this procedure were completed.	

3.10 Verifying SEAS

Procedure 10: Verifying SEAS

S T E P #	Perform procedure only if SEAS feature is on, see Procedure 2, Step 12 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.
1 ☐	Issue the command to display SEAS status. rept-stat-seas
2 ☐ ☐	Response to SEAS status command is displayed if SEAS over IP feature is turned on. Verify that all entries are “IS-NR” and there are no alarms. <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 ☐	All steps in this procedure were completed.

3.11 Verifying optional features

Procedure 11: Verifying optional features

S T E P #	This procedure displays information on which optional features have been enabled.
1 ☐	Issue the command to retrieve STP options. rtrv-stpopts
2 ☐ ☐ ☐ ☐	Response to the command is displayed. Record whether the following options are turned on: DSMAUD: ON / OFF / CCC Note: DSMAUD only displayed with certain features enabled (e.g. GFLEX, INP, GPORT) Verify the GBSUSNMINM option status: GBSUSNMINM: ON / OFF If upgrading to 46.2 and beyond, MFC must be on. If MFC is set to off, this procedure fails. <pre> eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE5 XX.X.X-YY.yy.y STP OPTIONS ----- MTP31CTL 1 MTPLTI yes MTPLTCTDPCQ 3 MTPLTST 10000 MTPXLQ 500 MTPXLET 100 MTPXLOT 90 MTPDPCQ 8000 TFATFRPR 1000 MTPRSI no MTPRSIT 5000 MTPLPRST yes MTPT10ALT 30000 UIMRD no SLSCNV off CRITALMINH no DISPACTALMS no NPCFTI 14-00-00-00 GSMDFLT discard GSMDECERR pass DEFCC 1 DEFNDC 970 DSMAUD on RPTLNPMRSS yes RANDSLS 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 E5IS feature is recorded as on in Procedure 2, Step 12 then issue the retrieve command. Otherwise, go to step 7. rtrv-eisopts
4 ☐ ☐	Response to the command is displayed. Record the value of EISCOPY & FCMODE values: EISCOPY: ON / OFF FCMODE: STC/OFF/FCOPY <pre> eaglestp YY-MM-DD hh:mm:ss TTTT PPTT XX.X.X-YY.y.y EIS OPTIONS ----- EISCOPY = ON FAST COPY OPTIONS ----- FCGPL = IPGHC FCMODE = FCOPY FCGPL = IPGHC FCMODE = FCOPY </pre>
5 ☐	Issue the command to retrieve user-specified options for the IP networks used by the EAGLE. rtrv-netopts
6 ☐ ☐	Response to the command is displayed. <pre> eaglestp YY-MM-DD hh:mm:ss TTTT PPTT XX.X.X-YY.y.y NETWORK OPTIONS ----- PVN = 172.20.48.0 PVNMASK = 255.255.252.0 FCNA = 172.21.48.0 FCNAMASK = 255.255.254.0 </pre>

Procedure 11: Verifying optional features

	Record the value of PVN, PVNMASK, FCNA, FCNAMASK, FCNB and FCNBMASK.	FCNB = 172.22.48.0 FCNBMASK = 255.255.254.0
7 ☐	Issue the command to retrieve measurement options.	rtrv-measopts
8 ☐	Response to the measurement options command is displayed.	<pre> eagletsp 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 ☐	Issue the command to retrieve user-specified options for the SCCP application.	rtrv-sccopts
10 ☐	Response to the command is displayed.	<pre> eagletsp 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 DFLTGTTMODE = CdPA MTPRGTT = off MTPRGTTFALLBK = mtproute UNQGTSEL = bestmatch DELCCPREFIX = pfxwcc GTTDIST = all ; </pre>
11 ☐	Issue the command to retrieve user-specified options for the GSM.	rtrv-gsmopts
12 ☐	Response to the command is displayed.	<pre> eagletsp 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 MCMNC = 911666 CCNC = NONE MCMNC = NONE CCNC = NONE MCMNC = NONE CCNC = NONE MCMNC = NONE CCNC = NONE MCMNC = NONE CCNC = NONE MCMNC = NONE CCNC = NONE MCMNC = NONE CCNC = NONE MCMNC = NONE CCNC = NONE MCMNC = NONE CCNC = NONE MCMNC = NONE SRIDN = TCAP SRIDNNOTFOUND = GTT CRPTT = NONE SRISMGTTTRTG = OFF MSRNDIG = RNDN MSRNNAI = 1 MSRNNP = 10 MSISDNTRUNC = 0 SRFADDR = 1970552222 SRFNAI = 1 SRFNP = 1 MSRNLEN = 30 SERVERPFX = NONE GSM2IS41 = NONE MIGRPFX = SINGLE IS412GSM = NONE SPORTTYPE = NONE DFLTRN = NONE </pre>

Procedure 11: Verifying optional features

		<pre> EIRGRSP = OFF EIRRSPTYPE = TYPE1 EIRIMSICHK = OFF ENCODECUG = OFF ENCODENPS = ON ENCDNPSPTNONE = OFF ENCDNPSDNNOTFOUND= OFF G-Flex MLR OPTIONS : GFLEXMAPLAYERRTG = NONE REGSS = OFF ACTSS = OFF DACTSS = OFF INTSS = OFF AUTHFAILRPT = OFF RSTDATA = OFF PROCUNSTRQT = OFF RDYFORSM = OFF PURGMOBSS = OFF SRILOC = OFF; </pre>
13	Issue the command to retrieve user-specified options for IS41 GSM Migration.	rtrv-is41opts
14	Response to the options command is displayed.	<pre> eag1estp YY-MM-DD hh:mm:ss TTTT PPTT 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>
15	If SNMP Feature was on in Procedure 2, Step 14 then issue the retrieve option command. Otherwise, go to step 19.	rtrv-snmpopts
16	Response to the command is displayed.	<pre> eag1estp YY-MM-DD hh:mm:ss TTTT PPTT XX.X.X-YY.Y.Y SNMP OPTIONS ----- SNMPUIM on GETCOMM public SETCOMM private </pre>
17	Issue the retrieve IP Host command for SNMP.	rtrv-snmp-host
18	Response to the retrieve command is displayed.	<pre> eag1estp YY-MM-DD hh:mm:ss TTTT PPTT 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 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.	rtrv-sipopts

Procedure 11: Verifying optional features

20	Response to the command is displayed.	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																																								
21	Issue the report SIP status command.	rept-stat-sip																																								
22	Response to the status command is displayed if configured, else “E2688 Cmd Rej: SIP not Configured” is displayed.	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 <table><thead><tr><th>CARD</th><th>VERSION</th><th>PST</th><th>SST</th><th>TPS</th><th>PTPS</th><th>PTIMESTAMP</th></tr></thead><tbody><tr><td>1101</td><td>004-061-004</td><td>IS-ANR</td><td>MPS Unavl</td><td>0</td><td>0</td><td>00-00-00 00:00:00</td></tr><tr><td>1103</td><td>004-062-000</td><td>IS-NR</td><td>Active</td><td>100</td><td>100</td><td>02-01-08 10:55:23</td></tr><tr><td>1105</td><td>-----</td><td>OOS-MT</td><td>Isolated</td><td>0</td><td>0</td><td>00-00-00 00:00:00</td></tr></tbody></table> TOTAL SERVICE STATISTICS: ===== <table><thead><tr><th>SERVICE</th><th>SUCCESS</th><th>ERROR</th><th>WARNINGS</th><th>BYPASS</th><th>TOTAL</th></tr></thead><tbody><tr><td>SIPNP:</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr></tbody></table> Command Completed	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	SERVICE	SUCCESS	ERROR	WARNINGS	BYPASS	TOTAL	SIPNP:	0	0	0	0	0
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																																				
SERVICE	SUCCESS	ERROR	WARNINGS	BYPASS	TOTAL																																					
SIPNP:	0	0	0	0	0																																					
23	Issue the report DEIR status command.	rept-stat-deir																																								
24	Response to the status command is displayed if configured, else “E2791 Cmd Rej: DEIR not Configured” is displayed.	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% <table><thead><tr><th>CARD</th><th>VERSION</th><th>PST</th><th>SST</th><th>AST</th><th>TPS</th><th>PTPS</th></tr></thead><tbody><tr><td>1107 P</td><td>135-016-000</td><td>IS-NR</td><td>Active</td><td>-----</td><td>0</td><td>0</td></tr></tbody></table> TOTAL DEIR SERVICE STATISTICS: ===== <table><thead><tr><th>SERVICE</th><th>SUCCESS</th><th>ERROR</th><th>WARNINGS</th><th>OVERFLOW</th><th>TOTAL</th></tr></thead><tbody><tr><td>DEIR SRV:</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr></tbody></table> Command Completed.	CARD	VERSION	PST	SST	AST	TPS	PTPS	1107 P	135-016-000	IS-NR	Active	-----	0	0	SERVICE	SUCCESS	ERROR	WARNINGS	OVERFLOW	TOTAL	DEIR SRV:	0	0	0	0	0														
CARD	VERSION	PST	SST	AST	TPS	PTPS																																				
1107 P	135-016-000	IS-NR	Active	-----	0	0																																				
SERVICE	SUCCESS	ERROR	WARNINGS	OVERFLOW	TOTAL																																					
DEIR SRV:	0	0	0	0	0																																					
25	Issue the report ENUM status command.	rept-stat-enum																																								
26	Response to the status command is displayed if configured, else “E3188 Cmd Rej: ENUM not Configured” is displayed.	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 <table><thead><tr><th>CARD</th><th>VERSION</th><th>PST</th><th>SST</th><th>AST</th><th>TPS</th></tr></thead><tbody><tr><td>2303</td><td>139-019-000</td><td>IS-NR</td><td>Active</td><td>-----</td><td>4006</td></tr><tr><td>1105</td><td>139-019-000</td><td>IS-NR</td><td>Active</td><td>-----</td><td>1000</td></tr></tbody></table> TOTAL SERVICE STATISTICS: ===== <table><thead><tr><th>SERVICE</th><th>SUCCESS</th><th>ERROR</th><th>RECEIVED</th></tr></thead><tbody><tr><td>ENUM</td><td>: 41495</td><td>78689</td><td>120178</td></tr></tbody></table> ===== <table><thead><tr><th>SERVICE</th><th>RCODE1</th><th>RCODE2</th><th>RCODE3</th><th>RCODE4</th><th>RCODE5</th><th>TOTAL</th></tr></thead><tbody><tr><td>ENUM</td><td>: 12</td><td>0</td><td>78136</td><td>541</td><td>0</td><td>78689</td></tr></tbody></table> Command Completed.	CARD	VERSION	PST	SST	AST	TPS	2303	139-019-000	IS-NR	Active	-----	4006	1105	139-019-000	IS-NR	Active	-----	1000	SERVICE	SUCCESS	ERROR	RECEIVED	ENUM	: 41495	78689	120178	SERVICE	RCODE1	RCODE2	RCODE3	RCODE4	RCODE5	TOTAL	ENUM	: 12	0	78136	541	0	78689
CARD	VERSION	PST	SST	AST	TPS																																					
2303	139-019-000	IS-NR	Active	-----	4006																																					
1105	139-019-000	IS-NR	Active	-----	1000																																					
SERVICE	SUCCESS	ERROR	RECEIVED																																							
ENUM	: 41495	78689	120178																																							
SERVICE	RCODE1	RCODE2	RCODE3	RCODE4	RCODE5	TOTAL																																				
ENUM	: 12	0	78136	541	0	78689																																				
27	All steps in this procedure were completed.																																									

3.12 Verifying IP Signaling Status

Procedure 12: Verifying IP Signaling Status

S T E P #	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.	
1 ☐	Issue the command to display SCTP Association status.	rept-stat-assoc
2 ☐	Response to SCTP Association status command is displayed. Verify that all SCTP Associations that should be in service are IS-NR.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.X.X-YY.y.y ASSOCIATION PST SST iplima1 IS-NR ESTABLISHED iplima2 IS-NR ESTABLISHED Command Completed. ;</pre>
3 ☐	Issue the command to display Application Server status.	rept-stat-as
4 ☐	Response to Application Server status command is displayed. Verify that all Application Servers that should be in service are IS-NR.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.X.X-YY.y.y AS PST SST Command Completed. ;</pre>
5 ☐	All steps in this procedure were completed.	

3.13 Verifying EROUTE

Procedure 13: Verifying EROUTE

STEP #	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. 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.
1 ☐	Issue the command to display EROUTE status. rept-stat-mon:type=eroute
2 ☐ ☐	Response to EROUTE status command is displayed. Verify that all cards listed are in IS-NR state. Note: if any cards are denied eroute service, the text “CARDS DENIED EROUTE SERVICE:” will be displayed followed by the card locations. <pre> eaglestp YY-MM-DD hh:mm:ss TTTT PPPPP 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

3 	Issue the command to display network status for the card.	Pass: loc=xxxx:cmd="netstat -1" (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 (Seeq 0) and Port B (Seeq 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.	<pre> 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 lo (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 DPEnd (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 0xfffff000 Subnetmask 0xfffff000 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 </pre>
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Procedure 13: Verifying EROUTE

		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 P P P P P XX.x.x-YY.y.y NETSTAT command complete
5 ☐	Repeat steps 3 - 4 for all STC cards that are IS-NR in step 2.	
6 ☐	All steps in this procedure were completed.	

3.14 Verifying IMT Status

Procedure 14: Verifying IMT Status

S T E P #	This procedure verifies that the IMT Bus is free of errors. This procedure is run in correspondence with Procedure 3.
1 ☐	Issue the command to display IMT errors. rept-imt-lvl1:sloc=1201:eloc=1115:r=summary
2 ☐ ☐	Response to IMT report command is displayed. Ensure that all highlighted columns contain zeroes. <pre> eaglestp YY-MM-DD hh:mm:ss TTTT PPPPP 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>
3 ☐	If non-zeros, the command to display IMT level 1 information. rept-imt-lvl1:sloc=1201:eloc=1115:r=full
4 ☐	Response to MUX status command is displayed. Note: Output abridged for brevity, <pre> eaglestp YY-MM-DD hh:mm:ss TTTT PPPPP 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>
5 ☐	Issue the status command for the MUX cards rept-stat-mux

Procedure 14: Verifying IMT Status

6 ☐	Response to MUX status command is displayed. Verify that all cards are IS-NR. Record the types of MUX cards displayed (circle all that are applicable): HMUX HIPR HIPR2	<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>
7 ☐	Issue the report IMT information command. Repeat for all MUX types recorded in Step 6.	<pre>rept-imt-info:report=xxxxerr (where report=hmuxerr if HMUX cards were detected in step 6; report=hiprerr if HIPR cards were detected in step 6; report=hipr2err if HIPR2 cards were detected in step 6.)</pre>
8 ☐	Response to report IMT information command is displayed. Note: Output abridged for brevity, Actual output varies based on software release and card type.	<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>
9 ☐	All steps in this procedure were completed.	

3.15 Retrieving Trouble Data

Procedure 15: Retrieving Trouble Data

STEP #	This procedure retrieves the most recently logged troubles. Estimated time for completion: 5 minutes	
1	Issue the command to retrieve troubles from MASP A.	rtrv-trbl:loc=1113:num=15
2	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 P P P P P 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 P P P P P XX.X.X-YY.y.y NOTICE: Only 2 trouble(s) to retrieve in the log. ; eaglestp YY-MM-DD hh:mm:ss TTTT P P P P P 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 P P P P P 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>
3	Issue the command to retrieve troubles from MASP B.	rtrv-trbl:loc=1115:num=15
4	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 P P P P P 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 P P P P P XX.X.X-YY.y.y NOTICE: Only 1 trouble(s) to retrieve in the log. ; eaglestp YY-MM-DD hh:mm:ss TTTT P P P P P 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 P P P P P XX.X.X-YY.y.y 5876.1083 SYSTEM INFO REPT COND: system alive Report Date:YY-MM-DD Time:hh:mm:ss ;</pre>
5	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.	chg-trm:trm=P:all=no:sys=yes:sa=yes:db=yes <i>(Where P is the location of the capture terminal used in Proc 1, Step 5.)</i>
6	Response to change terminal command is displayed.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT P P P P P 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 P P P P P XX.X.X-YY.y.y CHG-TRM: MASP A - COMPLTD ;</pre>
7	All steps in this procedure were completed.	

3.16 Verifying Clock Status

Procedure 16: Verifying Clock Status

STEP #	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 ☐	Issue the command to report clock status.
2 ☐ ☐ ☐	<pre> rept-stat-clk:mode=full 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> Command Completed.
10 ☐	Issue the command to retrieve the clock options.
11 ☐	<pre> rtrv-clkopts eaglestp YY-MM-DD hh:mm:ss zone PPP XX.x.x-YY.y.y CLK OPTIONS ----- PRIMARY ----- HSCLKSRC rs422 HSCLKLL 1onghau1 SECONDARY ----- HSCLKSRC rs422 HSCLKLL 1onghau1 </pre>
12 ☐	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 ☐	Issue the command to display MPS status.	rept-stat-mps
2 ☐	Response to MPS status command is displayed, if any of the features requires ELAP/EPAP. If the MTT error 4102 is output go to step 5.	<pre> eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.y.y MPS A VERSION PST SST AST 027-015-000 OOS-MT Fault ----- 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 027-015-000 OOS-MT Fault ----- 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 ☐	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. Issue the command to change STP options.	chg-stpopts:dsmaud=on
4 ☐	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 ☐	All steps in this procedure were completed.	

3.18 Verify Source Database

Procedure 18: Verify Source Database

STEP #	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 20. Note: 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.⁵ This procedure verifies the presence of the following: • obsolete cards • network address conflicts with the PVN and FCN network address Note: 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. 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.	
1	☐ If removable media is present, remove it from the system.	Note: 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)
2	☐ Issue the upgrade command to display the database status.	ACT-UPGRADE:ACTION=DBSTATUS
3	☐ Response to the upgrade - database status command is displayed. ☐ Verify that the Inactive Partition Group database version displays the target release's version.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT P PPPP XX.x.x.x-YY.y.y</pre> <pre> DATABASE STATUS: >> OK << TDM 1114 (STDBY) C LEVEL TIME LAST BACKUP ----- FD BKUP Y 148913 12-10-09 04:49:11 GMT FD CRNT Y 148913 MCAP 1113 ----- 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	☐ Issue the card status to verify the location of the active MASP slot	rept-stat-card:appl=oam

⁵ 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

5	Response to the card status command is displayed. Record the card locations of both MASP's and the running GPL: Act MASP _____ Stby MASP _____ MA SP GPL: _____ For this sample output, cards 1113/1114 are standby and 1115/1116 are active.	<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 E5MCA P OAMHC IS-NR Standby ----- 1115 XXX-XXX-XXX E5MCA P OAMHC IS-NR Active ----- Command Completed. ;</pre>
6	Inhibit the standby MASP	inh-card:loc=XXXX (Where XXXX is the location of the standby MASP slot recorded in step 5)
7	Response to the inhibit command is displayed Verify UAM 514 is displayed.	<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> Wait for card to boot and return to the IMT bus.
8	Download target release flash to the standby MASP.	init-flash:loc=XXXX:code=trial (Where XXXX is the location of the standby MASP slot recorded in step 5)
9	Response to flash initialization is shown. Verify UAM 0004 is displayed.	<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> Wait for card to boot and return to the IMT bus.
10	Retrieve the GPLs running on the card location.	rept-stat-gpl:loc=XXXX (Where XXXX is the location of the standby MASP slot recorded in step 5)
11	Response to the card status command is displayed. Repeat the previous step if a valid version of the flash GPL is not displayed.⁶	<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>
12	Run the target release GPL on the standby MASP	alw-card:loc=XXXX:code=inactiveprtn (target release downloaded to inactive partition) (Where XXXX is the location of the standby MASP recorded in step 5)

⁶ Valid flash GPL for the MASP cards can be either BLMCAP or BLDC32 depending on the release. BLMCAP is valid for 46.5 and prior. BLDC32 is valid in 46.6 or later.

Procedure 18: Verify Source Database

13 ☐	Response to command is shown.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPPP XX.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 ☐	Issue command to report the GPLs running on Standby MASP.	<pre>rept-stat-gpl:loc=XXXX</pre> (Where XXXX is the location of the standby MASP slot recorded in step 5)
15 ☐	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-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 ☐	Issue command to report the GPLs running on the Active MASP.	<pre>rept-stat-gpl:loc=yyyy</pre> (Where XXXX is the location of the active MASP slot recorded in Step 5)
17 ☐	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-YY.y.y GPL Auditing ON GPL CARD RUNNING APPROVED TRIAL OAMHC69 yyyy XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX * BLDC32 XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX Command Completed. ;</pre>
18 ☐	Perform an OAM role change by booting the active OAM.	<pre>init-card:loc=yyyy</pre> (Where Yyyy is the location of the active MASP recorded in step 5)
19 ☐	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 ☐	Issue command to log back in to the system.	<pre>login:uid=xxxxxx</pre> (Where XXXXXX is a valid login ID)
21 ☐	Response to login command is displayed.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPPP XX.x.x-YY.yy.y Upg Phase 0 User logged in on terminal X</pre>
22 ☐	Issue the command to activate capture.	<pre>act-echo:trm=P</pre> (Where P is a capture terminal port that was selected in Procedure 2, Step 4)
23 ☐ ☐	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> (Caution: loss of output may occur if too many terminals are echoed)
24 ☐	Issue the card status to verify the location of the active MASP slot	<pre>rept-stat-card:appl=oam</pre>

Procedure 18: Verify Source Database

25	Response to the card status command is displayed. Record the card locations of both MASPs: Active MASP _____ Standby MASP _____ For this sample output, 1113 is the active and 1115 is standby. Note: GPL & PST display for the standby MASP can be ignored.	<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>
26	Inhibit the standby MASP	inh-card:loc=YYY (Where YYYY is the location of the standby MASP recorded in step 22)
27	Response to the inhibit command is displayed Verify UAM 514 is displayed.	<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> <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> Wait for card to boot and return to the IMT bus.
28	Download target release flash to the standby MASP.	init-flash:loc=YYY:code=trial (Where YYYY is the location of the standby MASP recorded in step 22)
29	Response to flash initialization is shown.	<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> <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> Wait for card to boot and return to the IMT bus.
30	Retrieve the GPLs running on the card location.	rept-stat-gpl:loc=YYY (Where YYYY is the location of the standby MASP slot recorded in step 22)
31	Response to the card status command is displayed. Repeat the previous step if valid version of the flash GPL is not displayed. See footnote 6 May need to wait up to 15 minutes to see the GPL in trial and approved column.	<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 Command Completed.</pre>
32	Run the target release GPL on the standby MASP	alw-card:loc=YYY:code=inactiveprtn (target release downloaded to inactive partition) (Where YYYY is the location of the standby MASP recorded in step 22)

⁸ 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.

Procedure 18: Verify Source Database

33 ☐	Response to allow card command is shown.	eaglestp YY-MM-DD hh:mm:ss TTTT PPTTTT XX.X.X.X-YY.yy.y Upg Phase 0 Card has been allowed. ;
34 ☐	Issue the card status command to verify the target release GPL is running.	rept-stat-gpl:gpl=oamhc69
35 ☐ ☐	Response from the status command is displayed. Verify that the GPL versions that are displayed in the “RUNNING” is the target release and different from versions displayed in the “APPROVED”.⁹ Verify that both MASP cards are running the same GPL version. If no cards are displayed, repeat step 34 where gpl=oamhc. If not running the correct versions contact the My Oracle Support.	eaglestp YY-MM-DD hh:mm:ss TTTT PPTTTT XX.X.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 PPTTTT XX.X.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. ;
36 ☐	Issue the command to report card status to determine the active MASP.	rept-stat-card

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

Procedure 18: Verify Source Database

37 ☐ ☐ ☐	Typical response to a card status command. Determine if both MASP's 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. Otherwise, determine the active MASP by finding which area of shaded text reports 'active'. Record the active MASP location: - _____ Note: any 'isolated' cards should be plugged into their slots if possible.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.yy.y Upg Phase 0 CARD VERSION TYPE GPL PST SST AST 1101 ----- ENETB IPSG 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 IPSG 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 IPSG OOS-MT Isolated ----- 1202 134-070-034 LIMT1 SS7HC IS-NR Active ----- Command Completed.</pre>
38 ☐ ☐	Issue the Send Message command that performs checks for obsolete cards.	<pre>send-msg:loc=XXXX:ds=1:da=h'1d:f=h'61 (Where XXXX is the location of the active MASP)</pre> Note: It is important to enter the correct active MASP location determined in the previous step. Incorrect results could be displayed otherwise.
39 ☐ ☐ ☐	Response to the Send Message command is displayed. Verify the output for the following checks: 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. Record the count of obsolete cards: _____	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPPPP 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 PPPPP 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>
40 ☐	Issue the Send Message command that checks for possible conflicts of IP addresses configured in the system.	<pre>send-msg:loc=XXXX:ds=1:da=h'1d:f=h'63 (Where XXXX is the location of the active MASP)</pre> Note: It is important to correctly enter the active MASP location determined in step 35. Otherwise, incorrect results could be displayed.

Procedure 18: Verify Source Database

41 ☐ ☐	Response to command is displayed. 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.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT 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 PTTTT 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 PTTTT XX.x.x-YY.yy.y Upg Phase 0 Health Check: This check is no longer necessary. ;</pre>
42 ☐	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.	chg-upgrade-config:sak=XXXXXXXXXXXXX:src=fixed (Where XXXXXXXXXXXXXXXX is the Software Access Key)
43 ☐ ☐	Response to command is displayed. Verify the command completed successfully and the correct Upgrade target release is output	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT XX.x.x-YY.yy.y Upg Phase 0 chg-upgrade-config:sak=XXXXXXXXXXXXX:src=zzzzz Command entered at terminal #6. ; eaglestp YY-MM-DD hh:mm:ss TTTT PTTTT 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 PPP XX.x.x-YY.y.y Command Completed. ;</pre>

Procedure 18: Verify Source Database

44 ☐	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 is in HC2 phase-0 with the following steps: - Issue the Send Message command that performs checks for obsolete cards. Where, XXXX = Location of the active MASP - Check the status of SM card. - Execute the command Note: Ignore if it reports Error E2603: Cmd Rej: Card must be inhibited before executing this command. - Execute the command Note: 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.	<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>
45 ☐	Issue the command to retrieve the upgrade configuration.	rtrv-upgrade-config
46 ☐	Response to the retrieve-card command is displayed	<pre>eaglestp YY-MM-DD hh:mm:ss zzz PPPPP XX.x.x-YY.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>
47 ☐	Issue the command to initialize the active and standby MASP cards so that they are running the source release software.	init-card:appl=oam
48 ☐	Response to the initialize-card command is displayed	<pre>eaglestp YY-MM-DD hh:mm:ss zzz PPPPP XX.x.x-YY.y.y init-card:appl=oam Command entered at terminal #X. ;</pre>
49 ☐	Issue command to log back in to the system.	login:uid=XXXXXX (Where XXXXXX is a valid login ID)

Procedure 18: Verify Source Database

50	Response to login command is displayed.	eaglestp YY-MM-DD hh:mm:ss TTTT PPPP XX.x.x-YY.yy.y User logged in on terminal X																																																																																																																																																														
51	Issue the command to activate capture.	act-echo:trm=P (where P is a capture terminal port that was selected in Procedure 2, Step 4)																																																																																																																																																														
52	Response to activate command is displayed.	eaglestp YY-MM-DD hh:mm:ss ZZZZ PPPP XX.x.x-YY.yy.y Scro1l Area Output will be echoed to Terminal X.		Verify that the capture terminal is correctly collecting data.	; (Caution: loss of output may occur if too many terminals are echoed)	53	Issue the command to report card status.	rept-stat-card	54	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.	eaglestp YY-MM-DD hh:mm:ss zzzz PPPP XX.x.x-YY.yy.y <table><tr><td>CARD</td><td>VERSION</td><td>TYPE</td><td>GPL</td><td>PST</td><td>SST</td><td>AST</td></tr><tr><td>1101</td><td>134-061-000</td><td>DCM</td><td>IPGHC</td><td>IS-NR</td><td>Active</td><td>ALMINH</td></tr><tr><td>1102</td><td>134-061-000</td><td>DCM</td><td>IPLHC</td><td>IS-NR</td><td>Active</td><td>ALMINH</td></tr><tr><td>1103</td><td>134-061-000</td><td>E5ENET</td><td>IPSG</td><td>IS-NR</td><td>Active</td><td>-----</td></tr><tr><td>1107</td><td>134-061-000</td><td>DSM</td><td>VSCCP</td><td>IS-NR</td><td>Active</td><td>-----</td></tr><tr><td>1109</td><td>134-058-000</td><td>HIPR</td><td>HIPR</td><td>IS-NR</td><td>Active</td><td>-----</td></tr><tr><td>1110</td><td>134-058-000</td><td>HIPR</td><td>HIPR</td><td>IS-NR</td><td>Active</td><td>-----</td></tr><tr><td>1111</td><td>134-061-000</td><td>DSM</td><td>SCCPHC</td><td>IS-NR</td><td>Active</td><td>-----</td></tr><tr><td>1113</td><td>134-061-000</td><td>E5MCAP</td><td>OAMHC</td><td>IS-NR</td><td>Standby</td><td>-----</td></tr><tr><td>1114</td><td>-----</td><td>E5TDM</td><td></td><td>IS-NR</td><td>Active</td><td>-----</td></tr><tr><td>1115</td><td>134-061-000</td><td>E5MCAP</td><td>OAMHC</td><td>IS-NR</td><td>Active</td><td>-----</td></tr><tr><td>1116</td><td>-----</td><td>E5TDM</td><td></td><td>IS-NR</td><td>Active</td><td>-----</td></tr><tr><td>1117</td><td>-----</td><td>E5MDAL</td><td></td><td>IS-NR</td><td>Active</td><td>-----</td></tr><tr><td>1201</td><td>134-061-000</td><td>LIMDS0</td><td>SS7ML</td><td>IS-NR</td><td>Active</td><td>-----</td></tr></table> Command Completed. ;	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	IPSG	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	-----	E5TDM		IS-NR	Active	-----	1115	134-061-000	E5MCAP	OAMHC	IS-NR	Active	-----	1116	-----	E5TDM		IS-NR	Active	-----	1117	-----	E5MDAL		IS-NR	Active	-----	1201	134-061-000	LIMDS0	SS7ML	IS-NR	Active	-----	55	Issue the command to report trouble status.	rept-stat-trbl:display=timestamp	56	Response to trouble status command is displayed. Record any non-network alarms. Alarm _____	eaglestp YY-MM-DD hh:mm:ss zzz PPPP XX.x.x-YY.yy.y Searching devices for alarms... ; <table><tr><td>eaglestp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y</td><td></td></tr><tr><td>SEQN UAM AL DEVICE ELEMENT TROUBLE TEXT</td><td></td></tr><tr><td>5728.0048 * TERMINAL 14</td><td>Terminal failed</td></tr><tr><td>98-03-09 10:05:36</td><td></td></tr><tr><td>5729.0048 * TERMINAL 15</td><td>Terminal failed</td></tr><tr><td>98-03-09 10:05:36</td><td></td></tr><tr><td>98-03-09 13:57:40</td><td></td></tr><tr><td>5731.0013 ** CARD 1214 SS7ANSI</td><td>Card is isolated from the system</td></tr><tr><td>98-03-09 13:57:40</td><td></td></tr><tr><td>5604.0013 ** CARD 1111 SCCP</td><td>Card is isolated from the system</td></tr><tr><td>98-03-09 13:57:40</td><td></td></tr><tr><td>5732.0236 ** SLK 1214,A lsn1214</td><td>REPT-LKF: not aligned</td></tr><tr><td>98-03-09 13:57:40</td><td></td></tr><tr><td>5733.0236 ** SLK 1214,B lsn1214</td><td>REPT-LKF: not aligned</td></tr><tr><td>98-03-09 13:57:40</td><td></td></tr><tr><td>5734.0236 ** SLK 1106,A lsnx1</td><td>REPT-LKF: not aligned</td></tr><tr><td>98-03-09 13:57:40</td><td></td></tr><tr><td>5735.0318 ** LSN lsn1214</td><td>REPT-LKSTO: link set prohibited</td></tr><tr><td>98-03-09 13:57:40</td><td></td></tr><tr><td>5736.0318 ** LSN lsnx1</td><td>REPT-LKSTO: link set prohibited</td></tr><tr><td>98-03-09 13:57:40</td><td></td></tr></table> Command Completed. ;	eaglestp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.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		57	All steps in this procedure were completed.	
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1111	134-061-000	DSM	SCCPHC	IS-NR	Active	-----																																																																																																																																																										
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1114	-----	E5TDM		IS-NR	Active	-----																																																																																																																																																										
1115	134-061-000	E5MCAP	OAMHC	IS-NR	Active	-----																																																																																																																																																										
1116	-----	E5TDM		IS-NR	Active	-----																																																																																																																																																										
1117	-----	E5MDAL		IS-NR	Active	-----																																																																																																																																																										
1201	134-061-000	LIMDS0	SS7ML	IS-NR	Active	-----																																																																																																																																																										
55	Issue the command to report trouble status.	rept-stat-trbl:display=timestamp																																																																																																																																																														
56	Response to trouble status command is displayed. Record any non-network alarms. Alarm _____	eaglestp YY-MM-DD hh:mm:ss zzz PPPP XX.x.x-YY.yy.y Searching devices for alarms... ; <table><tr><td>eaglestp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y</td><td></td></tr><tr><td>SEQN UAM AL DEVICE ELEMENT TROUBLE TEXT</td><td></td></tr><tr><td>5728.0048 * TERMINAL 14</td><td>Terminal failed</td></tr><tr><td>98-03-09 10:05:36</td><td></td></tr><tr><td>5729.0048 * TERMINAL 15</td><td>Terminal failed</td></tr><tr><td>98-03-09 10:05:36</td><td></td></tr><tr><td>98-03-09 13:57:40</td><td></td></tr><tr><td>5731.0013 ** CARD 1214 SS7ANSI</td><td>Card is isolated from the system</td></tr><tr><td>98-03-09 13:57:40</td><td></td></tr><tr><td>5604.0013 ** CARD 1111 SCCP</td><td>Card is isolated from the system</td></tr><tr><td>98-03-09 13:57:40</td><td></td></tr><tr><td>5732.0236 ** SLK 1214,A lsn1214</td><td>REPT-LKF: not aligned</td></tr><tr><td>98-03-09 13:57:40</td><td></td></tr><tr><td>5733.0236 ** SLK 1214,B lsn1214</td><td>REPT-LKF: not aligned</td></tr><tr><td>98-03-09 13:57:40</td><td></td></tr><tr><td>5734.0236 ** SLK 1106,A lsnx1</td><td>REPT-LKF: not aligned</td></tr><tr><td>98-03-09 13:57:40</td><td></td></tr><tr><td>5735.0318 ** LSN lsn1214</td><td>REPT-LKSTO: link set prohibited</td></tr><tr><td>98-03-09 13:57:40</td><td></td></tr><tr><td>5736.0318 ** LSN lsnx1</td><td>REPT-LKSTO: link set prohibited</td></tr><tr><td>98-03-09 13:57:40</td><td></td></tr></table> Command Completed. ;	eaglestp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.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																																																																																																																					
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57	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 #	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.	
1 ☐	Issue the command to backup to the fixed disk.	chg-db:action=backup
2 ☐	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 ☐	If not already inserted, insert the source removable media drive into the system	NOTE: 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 ☐	Issue the command to backup to the removable. Otherwise, procedure needs to be rescheduled.	chg-db:action=backup:dest=remove
5 ☐ ☐	Response to backup command is displayed. Record the location of the active MASP: [1113 or 1115] _____.	<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 ☐	Issue the command to copy GPLs from active TDM to removable drive.	copy-gp1:s1oc=XXX:ddrv=remove <i>(Where XXXX is the active TDM location (1114 or 1116) that corresponds to the MASP slot recorded in step 5)</i>
7 ☐	Response to copy GPL command is displayed Verify command completes successfully.	<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>
8 ☐	Issue the commands to display disk directory of the fixed disk.	disp-disk-dir:loc=XXX <i>(Where XXXX is the standby TDM)</i>
9 ☐	Response to the display command is displayed. Verify command completes successfully.	<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</pre>

Procedure 19: Verifying Fixed Disks Functions with TST-DSK

	Note that the output data may vary from this example.	(additional files listed ...) <pre>File(s) : 465 Bytes : 1925810639 Disk Size (MB) : 7515</pre>
10	Issue this command to test the fixed disk.	<pre>tst-disk:loc=xxxx:partition=all</pre> (where xxxx is the standby fixed disk)
11	Response to the test disk command is displayed. Verify that there are no errors and retries are indicated. This command will complete in less than a minute.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y</pre> <pre>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>
12	Issue the commands to display disk directory of the removable media.	<pre>disp-disk-dir:loc=xxxx:src=remove</pre> (Where XXXX is the active MASP)
13	Response to disp-disk-dir command is displayed. Verify command completes successfully. Note that the output data may vary from this example.	<pre>eaglestp YY-MM-DD hh:mm:ss TTT PPP 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</pre> (additional files listed ...) <pre>File(s) : 182 Bytes : 511026520 Disk Size (MB) : 1910</pre>
14	Issue this command to test the removable media.	<pre>tst-disk:disk=remove:loc=xxxx</pre> (Where XXXX is the active MASP)
15	Response from the tst-disk command is displayed. For E5OAM system, execution time is under a minute. Verify that there are no errors and no retries indicated in output.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y</pre> <pre>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>
16	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	
17	Issue the command to initialize the active MASP.	<pre>init-card:loc=xxxx</pre> (Where XXXX is the location of the active E5-MASP)

Procedure 19: Verifying Fixed Disks Functions with TST-DSK

18 ☐	Response to the initialize command is displayed	<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: xxxxxxxxxxxxxx ; 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: xxxxxxxxxxxxxx ;</pre>
19 ☐	Issue the command to log in to the EAGLE terminal.	login:uid=XXXXXX (where XXXXXX is your login ID)
20 ☐	Response to login command is displayed.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y User logged in on terminal X ;</pre>
21 ☐	Issue the command to activate capture.	act-echo:trm=P (where P is a terminal port used in Procedure 0, Step 5)
22 ☐	Response to activate command is displayed.	<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>
23 ☐	Repeat Steps 8-11 for the formerly-active TDM.	
24 ☐	All steps in this procedure were completed.	

3.20 Testing IMT Status

Procedure 20: Testing IMT Buses

S T E P #	This procedure tests that the IMT Buses are healthy. 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. If no on-site personnel are available, then step 14 needs to be rescheduled.	
1 ☐	Issue the command to report the status of the IMT buses.	rept-stat-imt:mode=full
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>
3 ☐	If in a maintenance window, issue the command to inhibit the IMT bus.	inh-imt:bus=A
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>
5 ☐	Issue the command to test the IMT bus.	tst-imt:type=faulttest:bus=A
6 ☐ ☐	Response to test IMT bus command is displayed. “Test Passed” message displayed.	<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>
7 ☐	Issue the command to allow the IMT bus.	alw-imt:bus=A
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>
9 ☐	Issue the command for the Extended BERT test.	tst-imt:type=extbert:time=10:bus=A
10 ☐	Response to test IMT bus command is displayed. Otherwise, error “E4765 Cmd Rej: Obsolete MUX cards detected in the system” is displayed when the hardware is invalid for this command.	<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

	“PASS” messages displayed in BERT Status column.	After 10 minutes: <pre>eaglestp YY-MM-DD HH:MM:SS tzone Rel 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</pre> <table><tr><th>CARD</th><th>TYPE</th><th>SERIAL_NUMBER</th><th>BERT_STATUS</th><th>BIT_ERROR</th><th>ERRORRED_SEC</th><th>DURATION</th></tr><tr><td>1110</td><td>HIPR2</td><td>10208345012</td><td>PASS</td><td>3</td><td>2</td><td>01:00:00</td></tr><tr><td>1210</td><td>HIPR2</td><td>10208345031</td><td>PASS</td><td>2</td><td>1</td><td>01:00:00</td></tr><tr><td>1310</td><td>HIPR2</td><td>10208345052</td><td>PASS</td><td>5</td><td>3</td><td>01:00:00</td></tr></table> ; <pre>eaglestp YY-MM-DD HH:MM:SS tzone Rel XX.X.X-YY.Y.Y Extended BERT: Target Bus A will be allowed</pre> ; <pre>eaglestp YY-MM-DD HH:MM:SS tzone Rel XX.X.X-YY.Y.Y 5042.0098 IMT BUS A IMT allowed</pre> ;	CARD	TYPE	SERIAL_NUMBER	BERT_STATUS	BIT_ERROR	ERRORRED_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
CARD	TYPE	SERIAL_NUMBER	BERT_STATUS	BIT_ERROR	ERRORRED_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																								
11	Issue the status command for the IMT buses.	rept-stat-imt:mode=full																												
12	Response to IMT bus status command is displayed.	<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.</pre>																												
	Verify that bus has returned to IS-NR.	<pre>IMT PST SST AST B IS-NR Active ----- ALARM STATUS = No Alarms. Command Completed.</pre> ;																												
13	Repeat Steps 3 – 12 for IMT Bus B.	Repeat command in order to test IMT Bus B																												
14	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. ¹¹	Note: 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.																												
15	All steps in this procedure were completed.																													

¹¹ 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	Verify that a source release removable media is inserted in the active MASP. If in a maintenance window, issue the command to display card status.	rept-stat-card:apl=oam
2	Response to card status command is displayed. 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 -----</pre> Command Completed.
3	Remove Standby E5MASP from the system.	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). Remove the standby E5MASP card determined in step 2
4	Issue the command to report clock status.	rept-stat-clk:mode=full
5	Response to clock status command is displayed. 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 SYSTEM CLOCK PST SST AST 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

☐ 	Place spare E5MASP in system.	☐ Insert the spare E5MASP card ☐ 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).
☐	Display database version information.	rept-stat-db:display=version
☐ ☐	Verify that the standby TDM contains the same database version as the active. If the database version on the standby disk is not the same as the active disk, stop the procedure and contact My Oracle Support.	<pre> eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE5 XX.X.X-YY.yy.y DATABASE STATUS: >> NOT OK (DMS) << 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>
☐	Issue the command to verify the GPL versions.	rtrv-gp1
☐ ☐	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>
☐	Issue the command to copy GPLs.	copy-gp1:sloc=yyyy:dloc=xxxx <i>(where yyyy is the active MASP(1113/1115) and xxxx is the standby TDM (1114/1116) location recorded in step 2)</i>
☐ ☐	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>
☐	Issue the command to repair the standby disk.	chg-db:action=repair
☐	Response to repair command is displayed. This command may take up to 45 minutes to complete	<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. ; 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>
☐	Issue the commands to display disk directory of the standby MASP.	disp-disk-dir:loc=xxxx <i>(where xxxx is the standby MASP disk slot)</i>

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

16	Response to display disk directory command is displayed. Verify command completes successfully. <i>Note that the output data may vary from this example.</i>	<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 ...) File(s) : 465 Bytes : 1925810639 Disk Size (MB) : 7515 ;</pre>
17	Issue this command to test the fixed disk.	<pre>tst-disk:partition=all:loc=XXXX (Where XXXX is the standby MASP disk slot recorded in step 2)</pre>
18	Response to the test disk command is displayed. Verify that there are no errors and retries are indicated.	<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>
19	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.	
20	Issue the initialize card command for the active MASP.	<pre>init-card:loc=XXXX (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)</pre>
21	Response to the initialize command is displayed.	<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>
22	Issue the command to log in to the EAGLE terminal.	<pre>login:uid=XXXXXX (Where XXXXXX is your login ID)</pre>
23	Response to login command is displayed.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y User logged in on terminal X ;</pre>
24	Issue the command to activate capture. Refer to Section 2.1.2 for information on how to set up terminals for data capture.	<pre>act-echo:trm=P (Where P is a terminal port used in Procedure 0, Step 5)</pre>
25	Response to activate command is displayed.	<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>
26	Issue the command to report the status of the MDAL.	<pre>rept-stat-card:loc=1117</pre>

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

27 ☐	Response to the status command is displayed. Verify that status is IS-NR.	<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>
28 ☐	Repeat Steps 19 – 31. If second time executing this step, continue to next step.	
29 ☐	Inhibit the standby MASP so that the spare MASP may be removed from the system.	inh-card:loc=XXXX (where XXXX is the location of the standby MASP.)
30 ☐ ☐	Response to the inhibit command is displayed Verify UAM 514 is displayed.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y Card is inhibited. 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> Wait for card to boot and return to the IMT bus.
31 ☐	Remove Standby E5MASP from the system.	☐ 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). ☐ Remove the standby E5MASP card; the location specified in Step 24 ☐ Insert the spare E5MASP card ☐ 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).

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

32 ☐	Issue the allow card to bring the standby MASP in service.	a1w-card:loc=xxxx (where xxxx is the location of the standby MASP specified in step 32)
33 ☐	Response to allow card is displayed.	<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>
34 ☐	Display database version information.	act-upgrade:action=dbstatus
35 ☐ ☐ ☐	Verify that the standby MASP contains the same database version as the active. 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. 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.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT EAGLE5 XX.x.x-YY.yy.y VERSION PST SST AST DATABASE STATUS: >> OK << TDM 1114 (STDBY) TDM 1116 (ACTV) C LEVEL TIME LAST BACKUP C LEVEL TIME LAST BACKUP -----</pre> <pre>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 MCAP 1113 MCAP 1115 RD BKUP - - - - - - - - - - - USB BKP - - - - - - - - - - -</pre> <pre>CARD/APPL LOC C T LEVEL TIME LAST UPDATE VERSION STATUS -----</pre> <pre>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</pre> <pre>INACTIVE PARTITION GROUP CARD/APPL LOC C T LEVEL TIME LAST UPDATE VERSION STATUS -----</pre> <pre>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>
36 ☐	All steps in this procedure were completed.	

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 ☐	Issue the following command.	rtrv-ls
2 ☐	Issue the following command.	rtrv-tbl-capacity
3 ☐	Issue the following command.	rept-stat-sys
4 ☐	If EGTT feature is on, go to Step 6. If GTT feature is on (refer to Procedure 0, Step 12), issue the following command. Otherwise, go to the end of this procedure	rtrv-tt
5 ☐	Issue the following command.	rtrv-gtt:type=XX <i>(Where XX is any Type displayed in step 4)</i>
6 ☐	If any LNP feature is on, issue the following command.	rtrv-lnp-serv
7 ☐	Issue the following command.	rtrv-cspc
8 ☐	Issue the following command.	rtrv-npp-srs

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 ☐	Issue the command to changes the user's terminal output group configuration.	chg-trm:trm=P:YYY=yes,ZZZ=no (where P is the location of the printer terminal recorded in Procedure 0, Step 4.) (YYY is an output group that was recorded in Procedure 0, Step 4.) (ZZZ is another output group that was recorded in Procedure 0, Step 4.)
2 ☐	Response to change terminal command is displayed.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPPP 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 PPPP XX.x.x-YY.y.y CHG-TRM: MASP A - COMPLTD</pre>
3 ☐	Issue the command to changes the user's terminal output group configuration.	chg-trm:trm=X:YYY=yes,ZZZ=no:TMOUT=TTT (where X is the location of the user's terminal recorded in Procedure 0, Step 4.) (YYY is an output group that was recorded in Procedure 0, Step 4.) (ZZZ is another output group that was recorded in Procedure 0, Step 4.) (TTT is the timeout value that was recorded in Procedure 0, Step 4)
4 ☐	Response to change terminal command is displayed.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPPP 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 PPPP XX.x.x-YY.y.y CHG-TRM: MASP A - COMPLTD</pre>
5 ☐	Issue the command to cancel capture.	canc-echo:trm=P (where P is a terminal port that was recorded in Procedure 0, Step 4)
6 ☐	Response to cancel command is displayed.	<pre>eaglestp YY-MM-DD hh:mm:ss TTTT PPPP 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.</pre>
7 ☐	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.