Oracle® Communications EAGLE

System Healthcheck Procedure

Release 45.0 and later

909-2256-001 Revision B

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ORACLE®

Oracle Communications EAGLE System Healthcheck Procedure, Release 45.0 and later

CAUTION: Use only the Healthcheck procedure included in the Upgrade Kit.

Before upgrading any system, please access Oracle's Tekelec Customer Support site and review any Technical Service Bulletins (TSBs) that relate to this upgrade.

Refer to Appendix A for instructions on accessing this site.

Contact Oracle's Tekelec Customer Care Center and inform them of your upgrade plans prior to beginning this or any upgrade procedure.

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FAX: 919-460-2126

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1. INTRODUCTION

1.1 Purpose and Scope

This document describes Tekelec'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 Tekelec 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

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 5 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
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 Customer Care Center 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, the Customer Care Center should be contacted 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 Tekelec. 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 Tekelec for review. If the Health Check is being performed in preparation for an upgrade, contact the Customer Care Center upon completion to verify that the upgrade can be performed after analysis of the capture file**

2.1.3 Step Check-Off and Recording Configuration

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

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

2.2 Health Check Record

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

Table 2. Health Check Record

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

2.3 Health Check Type

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

Table 3. Health Check Type Procedures

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

Note 1: Intrusive procedures are shaded.

3. PROCEDURES

3.1 Pre-Health Check Requirements

Procedure 1. Verifying Pre-Health Check Requirements

S T E P #	This procedure verifies that all pre-healthcheck 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 the Customer Care Center AND **ASK FOR HEALTHCHECK ASSISTANCE.**	
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.
	Verify that all terminal and modem recourses are available for remote access.

2 ☐	Issue the command to display GPL status.	`REPT-STAT-GPL:GPL=EOAM`

3 ☐	Response to GPL status command is displayed.
	
	If any card is displayed, this procedure **fails**. Otherwise, continue to next procedure.
		`tekelecstp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y`
		`GPL Auditing ON`
		
		`GPL CARD RUNNING APPROVED TRIAL`
		`EOAM 1113 134-034-012 ---------- ----------`
		
		`Command Completed.`
		`;`

3.2 Health Check Preparation

Procedure 2. Health Check Preparation

STEP #		
	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.	tekelecstp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.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, OAP terminals or SEAS terminals, and user terminal. In this example, terminal 12 is a printer, terminal 10 is the user's terminal, and terminal 1 is the OAP. Refer to Section 2.1.2 for information on how to set up terminals for data capture. CAPTURE _____ OAP\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.	tekelecstp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y TRM TYPE COMM FC TMOUT MXINV DURAL 1 OAP 19200 -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 OAP 19200 -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 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___

Procedure 2. Health Check Preparation

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)*
6 ☐	Response to change terminal command is displayed.	tekelecstp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y chg-trm:trm=P:all=yes Command entered at terminal #X. ; tekelecstp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y CHG-TRM: MASP A - COMPLTD ;
7 ☐	Issue the command to activate capture.	**act-echo:trm=P** *(Where P is a capture terminal port that was selected in step 4)*
8 ☐ ☐	Response to activate command is displayed. Verify that the capture terminal is correctly collecting data.	tekelecstp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y Scroll Area Output will be echoed to Terminal X. ; *(***Caution**: loss of output may occur if too many terminals are echoed*)*
9 ☐	If all terminal groups for the user terminal are not set to "NO" and method for capturing output is enabled, issue the command to change all terminal groups to "NO."	**chg-trm:trm=X:all=no:tmout=0:sa=yes:sys=yes:db=yes:card=yes** *(Where X is the location of the user's terminal recorded in step 4.)*
10 ☐	Response to change terminal command is displayed.	tekelecstp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y chg-trm:trm=X:all=no Command entered at terminal #X. ; tekelecstp 98-03-09 03:01:11 EST Rel XX.X.X-YY.Y.Y CHG-TRM: MASP A - COMPLTD ;
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.	tekelecstp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y EAGLE FEATURE LIST GTT = on GWS = on NRT = off X25G = off LAN = on CRMD = off SEAS = off LFS = off MTPRS = off FAN = on DSTN5000 = off WNP = off CNCF = off TLNP = off SCCPCNV = off TCAPCNV = off IPISUP = off X252000 = off PLNP = off NCR = off ITUMTPRS = on SLSOCB = off EGTT = on VGTT = on MPC = on ITUDUPPC = on MEASPLAT = on TSCSYNC = off E5IS = off ;

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 quantity[1]. Also record whether the EIR feature is on: LNP ported TN: ON / OFF 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: ON / OFF Quantity: _____ Temporary TPS Enabled: YES/NO	rtrv-ctrl-feat Command entered at terminal #X. ; tekelecstp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.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 893011012 on 96000000 EIR 893012301 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.
15 ☐	Issue the command to retrieve serial number for this node.	**rtrv-serial-num**
16 ☐	Response to retrieve command is displayed.	tekelecstp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y System serial number = nt00001659 System serial number is locked. ;
17 ☐	All steps in this procedure were completed.	

[1] If feature access key outputs "off" for status or does not appear in output the feature is OFF.

3.3 General System Status

Procedure 3: Determining General System Status

S T E P #	This procedure examines the general status of all cards in the system by reporting card and system status. Look for unexplained alarms, or other entities listed as 'other'. Any system entities listed as 'other' should be documented, investigated, and explained. Look for unexplained card PST and SST states (i.e. not IS-NR/Active).	
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.	tekelecstp YY-MM-DD hh:mm:ss EST PPP 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 ;
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): HMUX HIPR HIPR2	tekelecstp YY-MM-DD hh:mm:ss EST PPP 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. ;
5 ☐	Issue the report IMT information command. Repeat for all MUX types recorded in Step 4.	**rept-imt-info:report=*XXXX*err** *(where report=hmuxerr if HMUX cards were detected in step 4; 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	tekelecstp 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

Procedure 3: Determining General System Status

	based on software release and card type.	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 ;
7 ☐	Issue the command to clear IMT errors.	**clr-imt-stats:all=yes**
8 ☐	Response to clear IMT stats command is displayed.	tekelecstp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y clr-imt-stats:all=yes Command entered at terminal #X. ; Tekelecstp 98-03-09 14:09:41 EST Rel XX.X.X-x.x.x Clear IMT Statistics command(s) issued... ;
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: _____ Record the number of IS-NR SS7IPGW and IPGWI cards. Verify the IP System is not deploying both SS7IPGW and IPGWI Cards by ensuring either SS7IPGW or IPGWI has 0 cards IS-NR. SS7IPGW Cards: _____ IPGWI Cards: _____	tekelecstp 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 SLAN CARD IS-NR= X Other= X INH= 0 SS7IPGW CARD IS-NR= X Other= X INH= 0 IPGWI CARD IS-NR= X Other= X INH= 0 CLOCK IS-NR= X Other= X INH= 0 IMT IS-NR= X Other= X 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. ;
11 ☐	Issue the command to report signaling link status.	**rept-stat-slk**

Procedure 3: Determining General System Status

12 ☐	Response to report signaling links status command is displayed.	tekelecstp YY-MM-DD hh:mm:ss EST PPP XX.X.X-x.x.x SLK LSN CLLI PST SST AST 1201,A ls1 ---------- IS-NR Avail ----- 1201,B ls4 ---------- OOS-MT Unavail ----- 1202,A ls1 ---------- IS-NR Avail ----- 1202,B ls1 ---------- IS-NR Avail ----- 1203,A ls1 ---------- IS-NR Avail ----- 1203,B ls2 ---------- IS-NR Avail ----- 1204,A ls4 ---------- IS-NR Avail ----- 1204,B ls3 ---------- IS-NR Avail ----- 1205,A ls5 ---------- IS-NR Avail ----- 1205,A1 ls5 ---------- IS-NR Avail ----- 1205,A2 ls5 ---------- IS-NR Avail ----- 1205,A3 ls5 ---------- IS-NR Avail ----- 1205,B3 ls5 ---------- IS-NR Avail ----- 1206,A ls6 ---------- IS-NR Avail ----- 1206,B ls6 ---------- IS-NR Avail ----- 1207,A ls7 ---------- IS-NR Avail ----- 1207,B ls7 ---------- IS-NR Avail ----- 1211,A ls11 ---------- IS-NR Avail ----- 1211,B ls11 ---------- IS-NR Avail ----- 1301,A ls1301i0 ---------- IS-NR Avail ----- 1301,B ls1301i0 ---------- IS-NR Avail ----- 1302,A ls1302i0 ---------- IS-NR Avail ----- 1302,B ls1302i0 ---------- IS-NR Avail ----- 1303,A ls1303i0 ---------- IS-NR Avail ----- 1303,B ls1303i0 ---------- IS-NR Avail ----- 1304,A ls1304i0 ---------- IS-NR Avail ----- 1304,B ls1304i0 ---------- IS-NR Avail ----- 1311,A ls1311i0 ---------- IS-NR Avail ----- 1311,B ls1311i0 ---------- IS-NR Avail ----- 1311,A1 ls1311i0 ---------- IS-NR Avail ----- 1311,B1 ls1311i0 ---------- IS-NR Avail ----- Command Completed. ;
13 ☐	Issue the command to retrieve card provisioning.	**rtrv-card**

Procedure 3: Determining General System Status

14 ☐ Response to retrieve command is displayed.

```
     tekelecstp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y
     CARD    TYPE       APPL     LSET NAME    LINK SLC LSET NAME    LINK SLC
     1101    ENET       IPSG     stpa220a     A    0   sc4a224a     B    0
                                 sc1a221a     A1   0   sc5a225a     B1   0
                                 sc2a222a     A2   0   sc6a226a     B2   0
                                 sc3a223a     A3   0   sc7a227a     B3   0
                                 stpa027i     A4   0   sp1a028i     B4   0
                                 sc1a028i     A5   0   sp2a029i     B5   0
                                 sc2a029i     A6   0   sp3a030i     B6   0
                                 sc3a030i     A7   0   sp4a031i     B7   0
     1102    TSM        GLS
     1103    DSM        VSCCP
     1105    ENET       IPSG     stpa220a     A    1   sc4a224a     B    1
                                 sc1a221a     A1   1   sc5a225a     B1   1
                                 sc2a222a     A2   1   sc6a226a     B2   1
                                 sc3a223a     A3   1   sc7a227a     B3   1
                                 stpa027n     A4   1   sp1a028n     B4   1
     1106    LIME1      CCS7ITU  sc6a033i     A    0
     1107    DCM        IPGWI    sc5a032i     A    1
     1108    MCPM       MCP
     1111    ENET       IPSG     lg1111a00    A    0   lg1111i01    A1   0
                                 lg1111n02    A2   0
     1112    ENET       IPSG     lg1111a00    A    1   lg1111i01    A1   1
                                 lg1111n02    A2   1
     1113    E5-MCAP    OAM
     1114    TDM-A
     1115    E5-MCAP    OAM
     1116    TDM-B
     1117    MDAL
     1201    ENET       IPSG     stpa220a     A    3   sc4a224a     B    3
                                 sc1a221a     A1   3   sc5a225a     B1   3
                                 sc2a222a     A2   3   sc6a226a     B2   3
                                 sc3a223a     A3   3   sc7a227a     B3   3
                                 stpa027i     A4   3   sp1a028i     B4   3
                                 sc1a028i     A5   3   sp2a029i     B5   3
                                 sc2a029i     A6   3   sp3a030i     B6   3
                                 sc3a030i     A7   3   sp4a031i     B7   3
                                 stpa027n     A8   3   sp1a028n     B8   3
                                 sc1a028n     A9   3   sp2a029n     B9   3
                                 sc2a029n     A10  3   sp3a030n     B10  3
                                 sc3a030n     A11  3   sp4a031n     B11  3
     1202    DCM        STPLAN
     1203    LIMT1      SS7ANSI  ls3307a00    A    0   ls3307a04    B    0
                                 ls3307a00    A1   1   ls3307a04    B1   1
                                 ls3307a00    A2   2   ls3307a04    B2   2
                                 ls3307a00    A3   3   ls3307a04    B3   3
                                 ls3307a08    A4   0   ls3307a12    B4   0
                                 ls3307a08    A5   1   ls3307a12    B5   1
                                 ls3307a08    A6   2   ls3307a12    B6   2
                                 ls3307a08    A7   3   ls3307a12    B7   3
                                 ls3307a16    A8   0   ls3307a20    B8   0
                                 ls3307a16    A9   1   ls3307a20    B9   1
                                 ls3307a16    A10  2   ls3307a20    B10  2
                                 ls3307a16    A11  3   ls3307a20    B11  3
                                 ls3307a24    A12  0   ls3307a28    B12  0
                                 ls3307a24    A13  1   ls3307a28    B13  1
                                 ls3307a24    A14  2   ls3307a28    B14  2
                                 ls3307a24    A15  3   ls3307a28    B15  3
     1205    DCM        IPLIMI   sc4a031i     A    0   sc4a031n     B    0
                                 sc4a031i     A1   1   sc4a031n     B1   1
     1206    DCM        IPLIMI   sc4a031i     A    8   sc4a031n     B    8
                                 sc4a031i     A1   9   sc4a031n     B1   9
     1207    LIMATM     ATMANSI  sc8a228a     A    1   sc9a229a     B    1
     1208    ENET       IPSG     lg2305a00    A    7   gr2305i01    A1   7
                                 gr2305n02    A2   7
     1211    ENET       IPSG     stpa220a     A    4   sc4a224a     B    4
     1212    MCPM       MCP
     1213    LIME1      CCS7ITU  ls1213i00    A    0   lr1213i04    B    0
                                 ls1213i01    A1   0   lr1213i05    B1   0
     1215    ENET       IPSG     lg1111a00    A    2   lg1111i01    A1   2
                                 lg1111n02    A2   2
     1216    ENET       IPSG     lg1111a00    A    3   lg1111i01    A1   3
                                 lg1111n02    A2   3
     1217    DSM        VSCCP
;
```

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 _____

```
    tekelecstp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y
    CARD   VERSION      TYPE      GPL        PST            SST        AST
    1101   134-060-000  DCM       IPGHC      IS-NR          Active     -----
    1102   134-060-000  LIME1     SS7HC      IS-NR          Active     -----
    1103   134-060-000  LIME1     SS7ML      IS-NR          Active     -----
    1104   134-060-000  LIMDS0    SS7ML      IS-NR          Active     -----
    1105   134-060-000  MCPM      MCP        IS-NR          Active     -----
    1106   134-060-000  LIMATM    ATMANSI    IS-NR          Active     -----
    1107   134-060-000  DCM       IPGHC      IS-NR          Active     -----
    1108   134-060-000  DSM       SCCPHC     IS-NR          Active     -----
    1109   134-060-000  HIPR      HIPR       IS-NR          Active     -----
    1109   134-060-000  HIPR      HIPR       IS-NR          Active     -----
    1111   -----------  DSM       VSCCP      OOS-MT         Isolated   -----
    1112   134-060-000  TSM       GLSHC      IS-NR          Active     -----
    1113   134-060-000  E5MCAP    OAMHC      IS-NR          Standby    -----
    1114   -----------  E5TDM                IS-NR          Active     -----
    1115   134-060-000  E5MCAP    OAMHC      IS-NR          Active     -----
    1116   -----------  E5TDM                IS-NR          Active     -----
    1117   -----------  E5MDAL               IS-NR          Active     -----
    1201   134-060-000  DCM       IPLIMI     IS-NR          Active     -----
    Command Completed.
;
```

17 ☐ Issue the command to report card status.

```
rept-stat-card:loc=XXXX:mode=full
```
(where XXXX is the slot ID of any card that is IS-ANR or OOS-MT in step 16)

18 ☐ Response to card status command is displayed.

```
    tekelecstp 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        CLLI=-----------
      SLK B   PST        = OOS-MT          LS=e3e4        CLLI=-----------
      SNM    TVG RESULT  = 24 hr: ------, 5 min: ------
      SLAN   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.
;
```

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.

```
rept-stat-gpl:display=all
```

Procedure 3: Determining General System Status

21 ☐ Response to GPL status command.

```
    tekelecstp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y
    GPL Auditing  ON

    GPL Auditing  ON

    GPL         CARD      RUNNING            APPROVED      TRIAL
    ATMANSI     2101      134-060-000        134-060-000   134-060-000
           BPHCAP         134-050-000        134-050-000   134-050-000
    ATMANSI     2102      134-060-000        134-060-000   134-060-000
           BPHCAP         134-050-000        134-050-000   134-050-000
    OAMHC       1113      134-060-000        -----------   -----------
           BLMCAP         134-060-000        134-060-000   134-060-000
    OAMHC       1115      134-060-000        -----------   -----------
           BLMCAP         134-060-000        134-060-000   134-060-000
    VSCCP       1107      134-060-000        134-060-000   134-060-000
           BPDCM          134-050-000        134-050-000   134-050-000
    SS7ML       1201      134-060-000        134-060-000   134-060-000
           BPMPL          134-050-000        134-050-000   134-050-000
    SS7ML       1205      134-060-000        134-060-000   134-060-000
           BPMPL          134-050-000        134-050-000   134-050-000
    SS7ML       1206      134-060-000        134-060-000   134-060-000
           BPMPLT         134-050-000        134-050-000   134-050-000
    SS7ML       1207      134-060-000        134-060-000   134-060-000
           BPMPLT         134-050-000        134-050-000   134-050-000
    SS7ML       1302      134-060-000        134-060-000   134-060-000
           BPMPLT         134-050-000        134-050-000   134-050-000
    SS7ML       1306      134-060-000        134-060-000   134-060-000
           BPMPLT         134-050-000        134-050-000   134-050-000
    IPLIMI      xxxx      134-060-000        134-060-000   134-060-000
           BPDCM          134-050-000        134-050-000   134-050-000
    ATMITU      2103      134-060-000        134-060-000   134-060-000
           BPHCAP         134-050-000        134-050-000   134-050-000
    HIPR        1109      134-050-000        134-050-000   134-050-000
    HIPR        1110      134-050-000        134-050-000   134-050-000
    HIPR        1209      134-050-000        134-050-000   134-050-000
    HIPR        1210      134-050-000        134-050-000   134-050-000
    HIPR        1309      134-050-000        134-050-000   134-050-000
    HIPR        1310      134-050-000        134-050-000   134-050-000
    HIPR2       2109      134-050-000        134-050-000   134-050-000
    HIPR2       2110      134-050-000        134-050-000   134-050-000
    SS7HC       1202      134-060-000        134-060-000   134-060-000
           BLIXP          134-060-000        134-060-000   134-060-000
    SS7HC       1303      134-060-000        134-060-000   134-060-000
           BLIXP          134-060-000        134-060-000   134-060-000
    SS7HC       1311      134-060-000        134-060-000   134-060-000
           BLIXP          134-060-000        134-060-000   134-060-000
    GLSHC       1213      134-060-000        134-060-000   134-060-000
           BLIXP          134-060-000        134-060-000   134-060-000
    GLSHC       1214      134-060-000        134-060-000   134-060-000
           BLIXP          134-060-000        134-060-000   134-060-000
    IPLHC       1102      134-060-000        134-060-000   134-060-000
           BLIXP          134-060-000        134-060-000   134-060-000
    IPGHC       1101      134-060-000        134-060-000   134-060-000
           BLIXP          134-060-000        134-060-000   134-060-000
    SCCPHC      1111      134-060-000        134-060-000   134-060-000
           BLIXP          134-060-000        134-060-000   134-060-000
    IPSHC       1313      134-060-000        134-060-000   134-060-000
           BLIXP          134-060-000        134-060-000   134-060-000
    ATMHC       2105      134-060-000        134-060-000   134-060-000
           BLIXP          134-060-000        134-060-000   134-060-000
    IPSG        1103      134-060-000        134-060-000   134-060-000
           BLIXP          134-060-000        134-060-000   134-060-000

    Command Completed.
;
```

22 ☐ Issue the command to retrieve the shelves

```
rtrv-shlf
```

23 ☐ Response to retrieve shelf command is displayed.

```
    tekelecstp 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.

```
    tekelecstp YY-MM-DD hh:mm:ss TTTT PPP  XX.x.x-YY.y.y

    Card  Part Number  Rev Serial Number  Type     DB     GPL      GPL Version
    ----  -----------  --- -------------  -----    --     ---      -----------
    Card  Part Number  Rev Serial Number  Type     DB     APPL     GPL Version
    ----  -----------  --- -------------  -----    --     ----     -----------
    1101  870-2877-01  A   10207185540    IPSM     2048M  IPSHC    134-060-000
    1102  870-1873-02  B   10206515298    LIME1    512M   SS7HC    134-060-000
```

Procedure 3: Determining General System Status

		1103 870-2212-03 E 10208195239 DCM 512M IPGHC 134-060-000 1104 870-2212-03 C 10206525734 DCM 512M IPGHC 134-060-000 1105 Empty 1106 Empty 1107 870-2212-05 D 10209497242 DCM 512M IPGHC 134-060-000 1108 870-2877-01 A 10207185522 IPSM 2048M IPSHC 134-060-000 1109 870-2872-01 B 10209127086 HIPR2 134-050-000 1110 870-2872-01 B 10209127094 HIPR2 134-050-000 1111 870-2860-01 A 10207155436 DSM 4096M SCCPHC 134-060-000 1112 Empty 1113 870-2903-01 L 10210107118 E5MCAP 4096M OAMHC 134-060-000 1114 TDM 1115 870-2903-01 C 10208225027 E5MCAP 4096M OAMHC 134-060-000 1116 TDM 1117 MDAL 1118 Empty 1201 870-2671-03 G 10208357153 LIME1 512M SS7HC 134-060-000 1202 Empty 1203 870-2198-01 G 10201322801 LIME1 - SS7ML 134-060-000 1204 870-2198-01 M 10203282262 LIME1 - SS7ML 134-060-000 1205 870-2198-01 M 10203282235 LIME1 - SS7ML 134-060-000 1206 870-2198-01 G 10201322679 LIME1 - SS7ML 134-060-000 1207 870-2198-01 G 10201322671 LIME1 - SS7ML 134-060-000 1208 870-2198-02 E 10205215697 LIME1 - SS7ML 134-060-000 1209 870-2872-01 B 10209135070 HIPR2 134-050-000 1210 870-2872-01 B 10209127084 HIPR2 134-050-000 1211 870-1873-02 D 10206405074 LIME1 512M SS7HC 134-060-000 1212 870-2198-01 G 10201322726 LIME1 - SS7ML 134-060-000 1213 870-1873-03 E 10207115436 LIME1 512M SS7HC 134-060-000 1214 870-2198-01 G 10201322686 LIME1 - SS7ML 134-060-000 1215 870-2198-01 G 10201383680 LIME1 - SS7ML 134-060-000 1216 870-1873-02 D 10206525679 LIMT1 512M SS7HC 134-060-000 1217 870-2212-03 C 10207015039 DCM 512M SLANHC 134-060-000 1218 870-2212-03 B 10206455188 DCM 512M SLANHC 134-060-000 1301 870-2212-02 A 10206375265 DCM 512M IPLHC 134-060-000 1302 870-1873-03 E 10207115428 LIME1 512M SS7HC 134-060-000 1303 870-2212-03 E 10208047126 DCM 512M IPLHC 134-060-000 1304 870-2212-05 D 10209517303 DCM 512M IPLHC 134-060-000 1305 870-2455-03 B 10206075107 LIME1ATM 4M ATMITU 134-060-000 1306 870-2212-03 F 10208327221 DCM 512M IPLHC 134-060-000 1307 870-2212-03 E 10208145062 DCM 512M IPGHC 134-060-000 1308 870-2212-02 A 10206375266 DCM 512M IPGHC 134-060-000 1309 870-2872-01 B 10209127088 HIPR2 134-060-000 1310 870-2872-01 12 10208345051 HIPR2 134-060-000 1311 870-2212-03 F 10208327196 DCM 512M IPLHC 134-060-000 1312 870-2212-02 A 10206355354 DCM 512M IPLHC 134-060-000 1313 Empty 1314 Empty 1315 870-1872-01 B 10207195504 LIME1ATM 512M ATMHC 134-060-000 1316 870-1873-01 A 10206145276 LIME1 512M SS7HC 134-060-000 1317 870-2212-03 E 10208115347 DCM 512M IPLHC 134-060-000 1318 870-2212-02 A 10206385236 DCM 512M IPLHC 134-060-000 Command Completed. ;
26 ☐	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.)*
27 ☐	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 30.	tekelecstp 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= tekelecstp; 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. ;

Procedure 3: Determining General System Status

28 ☐	Issue the command to retrieve the next set of events.	**rtrv-log:next=500**
29 ☐ ☐	Response to retrieve log command is displayed. If report terminates without the "end of log reached" display, the command can be repeated.[2]	tekelecstp 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= tekelecstp; 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. ;
30 ☐	Issue the command to retrieve the log for the standby. Repeat steps 28 – 29 until the "end of log reached" message displays.	**rtrv-log:dir=bkwd:num=100:mode=full:edate=yymmdd:type=alarm:slog=stb** *(Where yymmdd is yesterday's date.)*
31 ☐	Issue the retrieve log command for the UIM log types. Repeat steps 28 – 29 until the "end of log reached" message displays.	**rtrv-log:dir=bkwd:num=100:mode=full:edate=yymmdd:type=uim:slog=act** *(Where yymmdd is yesterday's date.)*
32 ☐	Issue the command to retrieve the STP power level.	**rtrv-stp:display=power**
33 ☐ ☐	Response to retrieve power frame command is displayed. Note any of the power threshold numbers prefixed with a "+" sign.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y Power Threshold Power Consumption Frame (Amps) (Watts) (Amps) (Watts) ----- ---------- ---------- ---------- ---------- CF00 45 2160 37.71 1810 EF00 40 1920 33.99 1631 EF01 35 1680 10.00 480 EF04 +30 +1440 14.06 675 Command Completed. ;
34 ☐	Issue the command to retrieve the threshold alarm levels.	**rtrv-th-alm**

[2] 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

35 ☐ Response to retrieve threshold alarm command is displayed.

```
    tekelecstp 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.
;
```

36 ☐ Issue the command to retrieve the site ID.

```
rtrv-sid
```

37 ☐ Response to retrieve command is displayed.

```
    tekelecstp YY-MM-DD hh:mm:ss TTTT PPP  XX.x.x-YY.y.y
       PCA             PCI          PCN              CLLI              PCTYPE
       200-080-200     7-080-7      7-080-7-aa       tklc9051301       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
;
```

38 ☐ Issue the command to retrieve SCTP associations.

```
rtrv-assoc
```

39 ☐ The response to the retrieve command is displayed.

```
    tekelecstp YY-MM-DD hh:mm:ss zzz PPPPP XX.x.x-YY.y.y
                        CARD  IPLNK
    ANAME               LOC   PORT  LINK ADAPTER LPORT RPORT OPEN ALW
    iplma1103a2m2pa 1103  B     A2   M2PA    2175  2163  YES  YES
    iplma1103a3m2pa 1103  B     A3   M2PA    2176  2164  YES  YES
    iplma1103b2m2pa 1103  B     B2   M2PA    2179  2167  YES  YES
    iplma1103b3m2pa 1103  B     B3   M2PA    2180  2168  YES  YES
    iplma2116am2pa  2116  A     A    M2PA    3186  3166  YES  YES
    iplma2116a1m2pa 2116  A     A1   M2PA    3187  3167  YES  YES
    iplma2116a2m2pa 2116  A     A2   M2PA    3188  3168  YES  YES
    iplma2116a3m2pa 2116  A     A3   M2PA    3189  3169  YES  YES
    iplma2116bm2pa  2116  B     B    M2PA    3190  3170  YES  YES
    iplma2116b1m2pa 2116  B     B1   M2PA    3191  3171  YES  YES
    iplma2116b2m2pa 2116  B     B2   M2PA    3192  3172  YES  YES
    iplma2116b3m2pa 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

;
```

Procedure 3: Determining General System Status

40 ☐ Issue the command to retrieve T1 ports.

```
rtrv-t1
```

41 ☐ The response to the retrieve command is displayed.

```
    tekelecstp YY-MM-DD hh:mm:ss zzz PPPPP 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    ----

;
```

42 ☐ Issue the command to retrieve T1 ports.

```
rtrv-e1
```

43 ☐ The response to the retrieve command is displayed.

```
    tekelecstp YY-MM-DD hh:mm:ss zzz PPPPP XX.x.x-YY.y.y
           E1                                                          LINK    MINSU
    LOC    PORT  CRC4  CAS  ENCODE  E1TSEL    SI  SN  CHANBRDG  CLASS   RATE
    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    ----
;
```

44 ☐ Issue the command to report IP TPS usage.

```
rept-stat-iptps
```

45 ☐ The response to the status command is displayed.

```
    tekelecstp YY-MM-DD hh:mm:ss zzz PPPPP XX.x.x-YY.y.y
    IP TPS USAGE REPORT

                 THRESH  CONFIG          TPS      PEAK        PEAKTIMESTAMP
    ------------------------------------------------------------------------
    LSN
    ls2206i00     100%    2400  TX:       0       109   10-03-05 10:41:51
                                RCV:      0         0   00-00-00 00:00:00
    ls2206i01     100%    2400  TX:       0        84   10-03-05 10:41:51
                                RCV:      0         0   00-00-00 00:00:00
    ls2206i02     100%    2400  TX:       0        85   10-03-05 10:41:51
                                RCV:      0         0   00-00-00 00:00:00
    ls2206i03     100%    2400  TX:       0        84   10-03-05 10:41:51
                                RCV:      0         0   00-00-00 00:00:00
    lg1111a00     100%   13280  TX:       0      2883   10-03-08 15:26:06
                                RCV:      0         0   00-00-00 00:00:00
    lg2305a00     100%   13280  TX:       0       374   10-03-08 17:19:36
                                RCV:      0         0   00-00-00 00:00:00
    lg1111i01     100%   13280  TX:       0      2883   10-03-08 15:14:06
                                RCV:      0         0   00-00-00 00:00:00
    lg1315i00     100%    5000  TX:       0         9   10-03-12 20:10:36
                                RCV:      0         0   00-00-00 00:00:00
    lg5315i00     100%     380  TX:       0         0   00-00-00 00:00:00
                                RCV:      0         0   00-00-00 00:00:00
    lg1111n02     100%   13280  TX:       0      2883   10-03-08 15:19:06
                                RCV:      0         0   00-00-00 00:00:00
    lg1316n00     100%    5000  TX:       0         9   10-03-12 20:10:36
                                RCV:      0         0   00-00-00 00:00:00
    sc1a221a      100%    3200  TX:       1      2883   10-03-08 15:54:36
                                RCV:      0      2920   10-03-08 18:09:21
    sc3a223a      100%    3200  TX:       1      2972   10-03-08 18:39:06
                                RCV:      0      2920   10-03-08 17:30:21
    sc3a030i      100%    3200  TX:       1      2724   10-03-08 17:17:06
                                RCV:      0      2724   10-03-08 16:44:21
    ------------------------------------------------------------------------

    Command Completed.
;
```

Procedure 3: Determining General System Status

46 ☐	Issue the command to generate a measurements report.	**rept-meas:enttype=stp:type=mtcd**
47a ☐	If measurement collection is ON, the response to the report command is displayed.	tekelecstp YY-MM-DD hh:mm:ss zzz PPPPP 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, GTTUN0NS = 12096, GTTUN1NT = 360, MSSCCPFL = 0, MSULOST1 = 0, MSULOST2 = 0, MSULOST3 = 0, MSULOST4 = 0, MSULOST5 = 0, DRDCLFLR = 4207376, DURLKOTG = 4207370, CRSYSAL = 486, MASYSAL = 23558, MISYSAL = 2863, XLXTSPACE = 0, XLXTELEI = 0, TTMAPPF = 0, MSUDSCRD = 0, OVSZMSG = 0, GFGTMATCH = 3888000, GFGTNOMCH = 0, GFGTNOLKUP = 0, MSUSCCPFLR = 0, MSSCCPDISC = 0, MSIDPNOMCH = 0, MSIDPMATCH = 0, MSULOST6 = 0, SCCPLOOP = 0 ;
47b ☐	If measurement collection is OFF, the response to the report command is displayed.	tekelecstp YY-MM-DD hh:mm:ss zzz PPPPP 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.** ;
48 ☐	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

STEP #		
	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 _____	tekelecstp 98-03-09 14:09:29 EST Rel XX.X.X Searching devices for alarms... ; tekelecstp 98-03-09 14:09:30 EST Rel 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 5730.0155 * DLK 1107,A STPLAN connection unavailable 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. ;
3 ☐	Issue the command to report inhibited alarms	**rept-stat-alm:display=inhb**
4	Response to alarm status command is displayed.	tekelecstp 98-03-09 14:10:29 EST Rel 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. ;
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.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y DATABASE STATUS: >> OK << TDM 1114 (STDBY) TDM 1116 (ACTV) C LEVEL TIME LAST BACKUP C LEVEL TIME LAST BACKUP - -------- ---------- - -------- ---------- FD BKUP Y YYY YY-MM-DD HH:MM:SS TTTT Y YYY YY-MM-DD HH:MM:SS TTTT FD CRNT Y XXX Y XXX MCAP 1113 MCAP 1115 - -------- RD BKUP - - - - Y ZZZ YY-MM-DD HH:MM:SS TTTT USB BKP - - - - - - - - CARD/APPL LOC C T LEVEL TIME LAST UPDATE EXCEPTION SCCP 1101 Y N XXX YY-MM-DD HH:MM:SS - SCCP 1102 Y N XXX YY-MM-DD HH:MM:SS - GLS 1103 Y N XXX YY-MM-DD HH:MM:SS - GLS 1104 Y N XXX YY-MM-DD HH:MM:SS - SS7GX25 1105 Y N XXX YY-MM-DD HH:MM:SS - STPLAN 1111 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 - ;
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.	tekelecstp 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 GLOBLS 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 ;
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-gpl`
2 ☐	Response to retrieve GPL command is displayed Verify that all GPLs in the APPROVED, TRIAL, and REMOVE TRIAL columns match those in the RELEASE column. Also verify that no GPL alarms exist. (Alarms are shown here as an example.) Verify that the removable media drive can be read and its GPL contents correspond to current Release GPLs.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y GPL Auditing ON APPL CARD RELEASE APPROVED TRIAL REMOVE TRIAL GPL 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 ☐	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. Capture any obits that have been generated since the last system health check. If this is the first check, record any unexplained obits.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y NOTICE: Only 1 obit(s) to retrieve in the log. ; tekelecstp 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 : 30 78 30 31 63 63 39 37 65 38 20 41 50 50 4c 20 0x01cc97e8.APPL. 57 61 74 63 68 64 6f 67 20 74 69 6d 65 6f 75 74 Watchdog.timeout 20 72 65 73 65 74 .res Report Date:02-01-01 Time:03:33:49 ---------- ;
3 ☐	Issue the command to retrieve obits from MASP B.	`rtrv-obit:loc=1115`
4 ☐ ☐	Response to retrieve obit command is displayed. Capture any obits that have been generated since the last system health check. If this is the first check, record any unexplained obits.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y NOTICE: Only 3 obit(s) to retrieve in the log. ; tekelecstp 98-03-09 18:58:56 EST Rel XX.X.X ---------- STH: Received a BOOT APPL-Obituary reply for restart Card 2217 Module pvdlvmsg.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 ---------- ;
5 ☐	All steps in this procedure were completed.	

3.8 Verifying STPLAN

Procedure 8: Verifying STPLAN

STEP #		
	Perform procedure only if LAN feature is on, see Procedure 2 , Step 12 **This procedure displays STPLAN status. Verify that all cards that should be in service show a state of IS-NR. Record cards that do not show the expected status.**	
1 ☐	Issue the command to display SLAN status.	`rept-stat-slan`
2 ☐	Response to STP LAN status command is displayed.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y SLAN Subsystem Report OOS-MT Fault ----- SLAN Cards Configured= 1 Cards IS-NR= 1 CARD VERSION PST SST AST HOST Cap EAGLE Cap --- 1107 XXX-XXX-XXX IS-NR Active ----- 0% 0% --- AVERAGE USAGE per HOST CAPACITY = 0% AVERAGE USAGE per EAGLE CAPACITY = 0% CARDS DENIED SLAN SERVICE: 1101, 1102 Command Completed. ;
☐	Verify that all SLAN-configured cards that should be in service are IS-NR.	
3 ☐	All steps in this procedure were completed.	

3.9 Verify SCCP Load

Procedure 9: 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.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP 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 USAGE CPU 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 RATIO REROUTE\ WARNINGS FORWARD TO GTT TOTAL GTT: 4025 0 0% - - 4025 GFLEX: 19184 0 0% 0 0 19184 MNP: 6378 0 0% 0 1600 7978 SMSMR: 0 0 0% 0 6450 6450 IAR: 0 0 0% 0 0 0 MTPRTD: 0 0 0% - - 0 INPMR: 4789 0 0% 0 0 4789 INPQ: 10427 0 0% 0 - 10427 Command Completed. ;
3 ☐	Issue the command to display SCCP status.	`rept-stat-sccp:mode=perf`
4 ☐	Response to SCCP status command is displayed.	tekelecstp 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 USAGE TOTAL MSU RATE CLASS 0 MESSAGING RATE CLASS 1 MESSAGING RATE --- 1207 32% 340 311 29 1217 8% 346 330 16

		1315 6% 317 297 20 --- AVERAGE MSU USAGE = 37% 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. ;
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.	tekelecstp 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 USAGE CPU USAGE DATA 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. ;
7 ☐	Repeat steps 5 – 6 for IMSI data.	Repeat the status command specifing: *data=imsi*
8 ☐	All steps in this procedure were completed.	

3.10 Verifying LNP and LSMS

Procedure 10: 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. Verify that cards that are supposed to be in service are IS-NR. Verify that there are no errors.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP 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. ;

Procedure 10: 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 3.10 Step 2)*
4 ☐ ☐	Response to card status command is displayed. Verify that all cards have at least 4096MB of daughterboard memory.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y CARD VERSION TYPE GPL PST SST AST 1207 134-054-000 DSM VSCCP IS-NR Active ----- ALARM STATUS = No Alarms. BPDCM GPL version = 134-050-000 IMT BUS A = Conn IMT BUS B = Conn CLOCK A = Active CLOCK B = Idle CLOCK I = Idle MBD BIP STATUS = Valid MOTHER BOARD ID = DCM DBD STATUS = Valid DBD TYPE = MEM DBD MEMORY SIZE = 4096M HW VERIFICATION CODE = ---- SCCP % OCCUP = 37% APPLICATION SERVICING TVG MFC TVG MFC SNM REQ STATUS = 24 hr: ------ ---, 5 min: ------ --- INM REQ STATUS = 24 hr: ------ ---, 5 min: ------ --- MTP3 REQ STATUS = 24 hr: G--, 5 min: G-- IPLNK STATUS IPLNK IPADDR STATUS PST A 192.168.120.1 UP IS-NR B 192.168.121.1 UP IS-NR DSM IP CONNECTION PORT PST SST A IS-NR Active B IS-NR Active Command Completed. ;
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.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP 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 ;
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.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y CHG-LNPOPTS: MASP A - COMPLTD ;
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.	

3.11 Verifying SEAS

Procedure 11: Verifying SEAS

STEP #		
	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.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y SEAS SYSTEM PST SST AST IS-NR Avail ----- ALARM STATUS = No Alarms 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
3 ☐	All steps in this procedure were completed.	

3.12 Verifying optional features

Procedure 12: Verifying optional features

STEP #	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)	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y STP OPTIONS ---------- MTPT31CTL 1 MTPLTI yes MTPLTCTDPCQ 3 MTPLTST 10000 MTPXLQ 500 MTPXLET 0100 MTPXLOT 90% MTPDPCQ 5000 TFATFRPR 1000 MTPRSI no MTPRSIT 5000 MTPLPRST yes MTPT10ALT 30000 UIMRD no SLSCNV off CRITALMINH no DISPACTALMS no NPCFMTI 14-00-00-00 DSMAUD ON RPTLNPMRSS yes HMUXABUS yes HMUXBBUS yes HMUXTVG on RANDSLS off GR2878RGLBL yes RSTRDEV on ;
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	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y EIS OPTIONS ---------- EISCOPY = OFF FCMODE = OFF
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. Record the value of PVN, PVNMASK, FCNA, FCNAMASK, FCNB and FCNBMASK.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP 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 FCNB = 172.22.48.0 FCNBMASK = 255.255.254.0
7 ☐	Issue the command to retrieve measurement options.	**rtrv-measopts**

Procedure 12: Verifying optional features

8 ☐ Response to the measurement options command is displayed.

```
    tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP  XX.x.x-YY.y.y
    PLATFORMENABLE   = on
    COLLECT15MIN     = off
    CLLIBASEDNAME    = off
    OAMHCMEAS        = off
    ---------------------
    SYSTOTSTP        = on
    SYSTOTTT         = on
    SYSTOTSTPLAN     = off
    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
    AVLSTPLAN        = on
    AVLDLINK         = off
;
```

9 ☐ Issue the command to retrieve user-specified options for the SCCP application.

```
rtrv-sccpopts
```

10 ☐ Response to the command is displayed.

```
    tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP  XX.x.x-YY.y.y

    SCCP OPTIONS
    -------------------------------
    CLASS1SEQ                    off
    CCLEN                          0
    ACLEN                          0
    INTLUNKNNAI                   no
    SUBDFRN                      off
    DFLTGTTMODE                CdPA
    MTPRGTT                      off
    MTPRGTTFALLBK          mtproute
    UNQGTTSEL             bestmatch
    DELCCPREFIX              pfxwcc
    GTTDIST                      all
;
```

11 ☐ Issue the command to retrieve user-specified options for the GSM.

```
rtrv-gsmopts
```

12 ☐ Response to the command is displayed.

```
    tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP  XX.x.x-YY.y.y
    GSM OPTIONS
    ----------------------------
    MULTCC           = NONE           MULTCC           = NONE
    MULTCC           = NONE           MULTCC           = NONE
    MULTCC           = NONE           MULTCC           = NONE
    MULTCC           = NONE           MULTCC           = NONE
    MULTCC           = NONE           MULTCC           = NONE
    DEFMAPVR         = 1

    DEFMCC           = 911            DEFMNC           = NONE
    CCNC             = 1970           MCCMNC           = 911666
    CCNC             = NONE           MCCMNC           = NONE
    CCNC             = NONE           MCCMNC           = NONE
    CCNC             = NONE           MCCMNC           = NONE
    CCNC             = NONE           MCCMNC           = NONE
    CCNC             = NONE           MCCMNC           = NONE
    CCNC             = NONE           MCCMNC           = NONE
    CCNC             = NONE           MCCMNC           = NONE
    CCNC             = NONE           MCCMNC           = NONE
    CCNC             = NONE           MCCMNC           = NONE

    SRIDN            = TCAP           SRIDNNOTFOUND    = GTT
    CRPTT            = NONE           SRISMGTTRTG      = OFF
    MSRNDIG          = RNDN           MSRNNAI          = 1
    MSRNNP           = 10             MSISDNTRUNC      = 0
    SRFADDR          = 19705552222    SRFNAI           = 1
    SRFNP            = 1              MSRNLEN          = 30

    SERVERPFX        = NONE           GSM2IS41         = NONE
    MIGRPFX          = SINGLE         IS412GSM         = NONE

    SPORTTYPE        = NONE           DFLTRN           = NONE

    EIRGRSP          = OFF            EIRRSPTYPE       = TYPE1
    EIRIMSICHK       = OFF
```

Procedure 12: Verifying optional features

		``` 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; ```
13 ☐	Issue the command to retrieve user-specified options for IS41 GSM Migration.	**rtrv-sis41opts**
14 ☐	Response to the options command is displayed.	``` tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP 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 ; ```
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.	``` tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y SNMP OPTIONS --------- SNMPUIM on GETCOMM public SETCOMM private ```
17 ☐	Issue the retrieve IP Host command for SNMP.	**rtrv-snmp-host**
18 ☐	Response to the retrieve command is displayed.	``` tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP 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 ```
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 12: Verifying optional features

20 ☐	Response to the command is displayed.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP 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.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y SIP ALARM STATUS = ** 0625 SIP capacity normal, card(s) abnormal SIP Cards Configured= 3 Cards IS-NR= 1 CARD VERSION PST SST TPS PTPS PTIMESTAMP 1101 004-061-004 IS-ANR MPS Unavl 0 0 00-00-00 00:00:00 1103 004-062-000 IS-NR Active 100 100 02-01-08 10:55:23 1105 ---------- OOS-MT Isolated 0 0 00-00-00 00:00:00 TOTAL SERVICE STATISTICS: SERVICE SUCCESS ERROR WARNINGS BYPASS TOTAL SIPNP: 0 0 0 0 0 Command Completed
23 ☐	All steps in this procedure were completed.	

3.13 Verifying IP Signaling Status

Procedure 13: Verifying IP Signaling Status

STEP #	**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.
		`tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y`
		`ASSOCIATION PST SST`
		`ipgwa1 IS-NR ASP-ACTIVE`
		`ipgwa2 IS-NR ASP-ACTIVE`
		`iplima1 IS-NR ESTABLISHED`
		`iplima2 IS-NR ESTABLISHED`
		`Command Completed.`
		`;`

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.
		`tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y`
		`AS PST SST`
		`ipgwas1 IS-NR AS-ACTIVE`
		`ipgwas2 IS-NR AS-ACTIVE`
		`Command Completed.`
		`;`

5 ☐	All steps in this procedure were completed.	

3.14 Verifying EROUTE

Procedure 14: 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.	tekelecstp 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 USAGE CPU 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. ;

Procedure 14: Verifying EROUTE

3 ☐	Issue the command to display network status for the card.	`Pass:loc=xxxx:cmd="netstat -i"` **(where XXXX is the slot ID of an STC card that is IS-NR in step 2 or step 4.)**
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.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y PASS: Command sent to card ; tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y DPLend (unit number 0): Flags: (0x863) UP BROADCAST ARP RUNNING 10MB HDX DIX Type: ETHERNET_CSMACD Internet address: 172.20.48.11 Broadcast address: 172.20.255.255 Netmask 0xffff0000 Subnetmask 0xffff0000 Ethernet address is 00:00:00:00:00:0b Metric is 0 Maximum Transfer Unit size is 485 685002 packets received; 1 packets sent 0 multicast packets received 0 multicast packets sent 0 input errors; 0 output errors 0 collisions; 0 dropped seeq (unit number 1): Flags: (0x78063) UP BROADCAST MULTICAST ARP RUNNING AUTONEG 100MB Type: ETHERNET_CSMACD Internet address: 192.168.178.96 Broadcast address: 192.168.178.255 Netmask 0xffffff00 Subnetmask 0xffffff00 Ethernet address is 00:00:17:0c:24:e5 Metric is 0 Maximum Transfer Unit size is 1500 24158824 packets received; 1703911 packets sent 24158824 multicast packets received 1703904 multicast packets sent 0 input errors; 0 output errors 0 collisions; 0 dropped lo (unit number 0): Flags: (0x8069) UP LOOPBACK MULTICAST ARP RUNNING 10MB HDX DIX Type: SOFTWARE_LOOPBACK Internet address: 127.0.0.1 Netmask 0xff000000 Subnetmask 0xff000000 Metric is 0 Maximum Transfer Unit size is 32768 0 packets received; 0 packets sent 0 multicast packets received 0 multicast packets sent 0 input errors; 0 output errors 0 collisions; 0 dropped seeq (unit number 0): Flags: (0x78063) UP BROADCAST MULTICAST ARP RUNNING AUTONEG 100MB Type: ETHERNET_CSMACD Internet address: 192.168.177.97 Broadcast address: 192.168.177.255 Netmask 0xffffff00 Subnetmask 0xffffff00 Ethernet address is 00:00:17:0c:24:e4 Metric is 0 Maximum Transfer Unit size is 1500 26021319 packets received; 2389075 packets sent 26021156 multicast packets received 1703906 multicast packets sent 0 input errors; 0 output errors 0 collisions; 0 dropped ; tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y NETSTAT command complete
5 ☐	Repeat steps 3 - 4 for all STC cards that are IS-NR in step 4.	
6 ☐	All steps in this procedure were completed.	

3.15 Verifying IMT Status

Procedure 15: Verifying IMT Status

STEP #		
	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.	tekelecstp 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 ;
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,	tekelecstp 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 ;
5 ☐	Issue the status command for the MUX cards	**rept-stat-mux**

Procedure 15: 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

```
    tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP  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.
;
```

7

Issue the report IMT information command.

Repeat for all MUX types recorded in Step 6.

rept-imt-info:report=*XXXX*err

(where report=hmuxerr if HMUX cards were detected in step 6;
report=hiprerr if HIPR cards were detected in step 6;
report=hipr2err is HIPR2 cards were detected in step 6.)

8

Response to report IMT information command is displayed.

Note: Output abridged for brevity, Actual output varies based on software release and card type.

```
    tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP  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

;
```

9

All steps in this procedure were completed.

3.16 Retrieving Trouble Data

Procedure 16: 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.)	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y rtrv-trbl:loc=1113:num=15 Command entered at terminal #X. ; tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y NOTICE: Only 2 trouble(s) to retrieve in the log. ; tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP 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 ; tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP 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 ;
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.)	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y rtrv-trbl:loc=1115:num=15 Command entered at terminal #X. ; tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y NOTICE: Only 1 trouble(s) to retrieve in the log. ; tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP 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 ; tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y 5876.1083 SYSTEM INFO REPT COND: system alive Report Date:YY-MM-DD Time:hh:mm:ss ;
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** *(Where P is the location of the capture terminal used in Proc 1, Step 5.)*
6 ☐	Response to change terminal command is displayed.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y chg-trm:trm=P:all=no:sys=yes:sa=yes:db=yes Command entered at terminal #X. ; tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y CHG-TRM: MASP A – COMPLTD ;
7 ☐	All steps in this procedure were completed.	

3.17 Verifying Clock Status

Procedure 17: Verifying Clock Status

STEP #		
	This procedure verifies your system clock status. Specifically, the primary and secondary BITS clocks and the A and B clocks going to each card are examined. Both the Primary and Secondary BITS 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.	`rept-stat-clk:mode=full`
2 ☐ ☐ ☐	Response to clock status command is displayed. Verify that both BITS clocks are either in IDLE or ACTIVE state on both ACTIVE and STANDBY MASP. All highlighted cards-with-bad-CLK values should equal zero.	tekelecstp 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 ---------- Command Completed. ;
10 ☐	Issue the command to retrieve the clock options.	`rtrv-clkopts`
11 ☐	Response to retrieve command is displayed.	tekelecstp YY-MM-DD hh:mm:ss zone PPP XX.x.x-YY.y.y CLK OPTIONS ---------- PRIMARY ---------- HSCLKSRC rs422 HSCLKLL longhaul SECONDARY ---------- HSCLKSRC rs422 HSCLKLL longhaul ;
12 ☐	All steps in this procedure were completed.	

3.18 Verifying MPS

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

Procedure 18: Verifying MPS

STEP #	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.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y VERSION PST SST AST MPS A 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) VERSION PST SST AST MPS B 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. ;
3 ☐	If DSM Audit was recorded as being on in Procedure 3.12 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	tekelecstp YY-MM-DD hh:mm:ss zzz PPPPP XX.x.x-YY.y.y CHG-STPOPTS: MASP B – COMPLTD ;
5 ☐	All steps in this procedure were completed.	

3.19 Verify Source Database and Enter Software Access Key

Procedure 19: Verify Source Database and enter Software Access Key

STEP #		
	The purpose of this procedure is to determine the presence of unsupported or obsolete references in the system prior to doing an upgrade. And validate the Software Access Key necessary to perform the upgrade. **This procedure requires the target release to have been downloaded to the fixed disk.[3]** **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 potenial issues don't effect successful complete of the upgrade.** **The Software Access Key (SAK) for the upgrade target release is required for this procedure.**	
1 ☐	Issue the upgrade command to display the database status.	`ACT-UPGRADE:ACTION=DBSTATUS`

2 ☐ ☐	Response to the upgrade - database status command is displayed.
	
	Verify that the Inactive Partition Group database version displays the target release's version.
		`tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y`
		
		`VERSION PST SST AST`
		`DATABASE STATUS: >> OK <<`
		`TDM 1114 ( STDBY) TDM 1116 ( ACTV )`
		`C LEVEL TIME LAST BACKUP C LEVEL TIME LAST BACKUP`
		`- -------- ---------------------- - -------- ----------------------`
		`FD BKUP Y 148913 12-10-09 04:49:11 GMT Y 148913 12-10-09 04:49:11 GMT`
		`FD CRNT Y 148913 Y 148913`
		`MCAP 1113 MCAP 1115`
		`- -------- - --------`
		`RD BKUP - - - - - - - -`
		`USB BKP - - - - - - - -`
		
		`CARD/APPL LOC C T LEVEL TIME LAST UPDATE VERSION STATUS`
		`OAM-RMV 1113 - - - - - -`
		`TDM-CRNT 1114 Y N 148913 12-10-09 04:47:40 133-003-000 NORMAL`
		`TDM-BKUP 1114 Y - 148913 12-10-09 04:47:40 133-003-000 NORMAL`
		`OAM-RMV 1115 - - - - - -`
		`OAM-USB 1115 - - - - - -`
		`TDM-CRNT 1116 Y N 148913 12-10-09 04:47:40 133-003-000 NORMAL`
		`TDM-BKUP 1116 Y - 148913 12-10-09 04:47:40 133-003-000 NORMAL`
		
		`INACTIVE PARTITION GROUP`
		`CARD/APPL LOC C T LEVEL TIME LAST UPDATE VERSION STATUS`
		`TDM-CRNT 1114 Y - 1 00-00-00 00:00:00 135-000-000 NORMAL`
		`TDM-BKUP 1114 Y - 1 00-00-00 00:00:00 135-000-000 NORMAL`
		`TDM-CRNT 1116 Y - 1 00-00-00 00:00:00 135-000-000 NORMAL`
		`TDM-BKUP 1116 Y - 1 00-00-00 00:00:00 135-000-000 NORMAL`
		
		`;`

3 ☐	Issue the card status to verify the location of the active MASP slot	`rept-stat-card:appl=oam`

[3] In the EAGLE Software Upgrade Procedure; see Appendix B: Target Release Software Download on how to download the software release to the fixed disk for the applicable target release.

Procedure 19: Verify Source Database and enter Software Access Key

4 ☐	Response to the card status command is displayed. ☐ Record the card locations of both MASPs and the running GPL: Act MASP _____ Stby MASP ____ MASP GPL: _____ For this sample output, cards 1113/1114 are standby and 1115/1116 are active.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y CARD VERSION TYPE GPL PST SST AST 1113 XXX-XXX-XXX E5MCAP OAMHC IS-NR Standby ----- 1115 XXX-XXX-XXX E5MCAP OAMHC IS-NR Active ----- Command Completed. ;
5 ☐	Inhibit the standby MASP	**inh-card:loc=*XXXX*** (Where ***XXXX*** is the location of the standby MASP slot recorded in step 4)
6 ☐ ☐	Response to the inhibit command is displayed Verify UAM 514 is displayed.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y Card is inhibited. ; tekelecstp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y ** 7991.0514 ** CARD xxxx OAMHC Standby MASP is inhibited ; **Wait for card to boot and return to the IMT bus.**
7 ☐	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 3)
8 ☐ ☐	Response to flash initialization is shown. Verify UAM 0004 is displayed.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y FLASH Memory Download for card xxxx started. ; tekelecstp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y FLASH Memory Download for card xxxx completed. ; tekelecstp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y * 8003.0004 * GPL SYSTEM BLMCAP Card is running non-activated GPL ; **Wait for card to boot and return to the IMT bus.**
9 ☐	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 4)
10 ☐	Response to the card status command is displayed. Repeat the previous step if a valid version of BLMCAP is not displayed.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y GPL CARD RUNNING APPROVED TRIAL OAMHC 1113 ---------- ---------- ---------- BLMCAP YYY-YYY-YYY ALM+ XXX-XXX-XXX YYY-YYY-YYY Command Completed. ;
11 ☐	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 3)**

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12 ☐	Response to command is shown.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y Card has been allowed. ;
13 ☐	Retrieve status of the MASPs	**rept-stat-gpl:gpl=oamhc**
14 ☐	Verify standby MASP running target release GPL. The standby MASP will display ALM to indicate that the card is not running the approved version GPL.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y GPL Auditing ON GPL CARD RUNNING APPROVED TRIAL OAMHC 1113 XXX-XXX-XXX XXX-XXX-XXX OAMHC 1115 YYY-YYY-YYY ALM XXX-XXX-XXX Command Completed. ;
15 ☐	Perform an OAM role change by booting the active OAM.	**init-card:Loc=xxxx** (Where ***XXXX*** is the location of the active MASP recorded in step 4)
16 ☐	Response to card initialization is shown.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y init-card:loc=xxxx Command entered at terminal #10. ; tekelecstp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y Init Card command issued to card xxxx ;
17 ☐	Issue command to log back in to the system.	**login:uid=*xxxxxx*** (Where *XXXXXX* is a valid login ID)
18 ☐	Response to login command is displayed.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.yy.y Upg Phase 0 User logged in on terminal X
19 ☐	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)*
20 ☐ ☐	Response to activate command is displayed. Verify that the capture terminal is correctly collecting data.	tekelecstp 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. ; *(***Caution**: loss of output may occur if too many terminals are echoed*)*
21 ☐	Issue the card status to verify the location of the active MASP slot	**rept-stat-card:appl=oam**
22 ☐	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.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.yy.y Upg Phase 0 CARD VERSION TYPE GPL PST SST AST 1113 XXX-XXX-XXX E5MCAP OAMHC IS-NR Active ----- 4 1115 XXX-XXX-XXX E5MCAP OAMHC IS-NR Standby ----- Command Completed. ;
23 ☐	Inhibit the standby MASP	**inh-card:Loc=xxxx** (Where ***XXXX*** is the location of the standby MASP recorded in step 22)

[4] Dashes are displayed until GPL auditing has initialized after the activity has been switched, which may take up to two minutes.

Procedure 19: Verify Source Database and enter Software Access Key

24 ☐	Response to the inhibit command is displayed ☐ Verify UAM 514 is displayed.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.yy.y Upg Phase 0 Card is inhibited. ; tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.yy.y Upg Phase 0 ** 7991.0514 ** CARD xxxx OAMHC Standby MASP is inhibited ; **Wait for card to boot and return to the IMT bus.**
25 ☐	Download target release flash to the standby MASP.	**init-flash:loc=xxxx:code=trial** (Where ***XXXX*** is the location of the standby MASP recorded in step 22)
26 ☐	Response to flash initialization is shown. ☐ Verify UAM 0004 is displayed.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.yy.y Upg Phase 0 FLASH Memory Download for card xxxx started. ; tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.yy.y Upg Phase 0 FLASH Memory Download for card xxxx completed. ; tekelecstp YY-MM-DD hh:mm:ss **TTTT PPPPP XX.x.x-YY.yy.y Upg Phase 0** * 8003.0004 * GPL SYSTEM BLMCAP Card is running non-activated GPL ; **Wait for card to boot and return to the IMT bus.**
27 ☐	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 22)
28 ☐	Response to the card status command is displayed. Repeat the previous step if valid version of BLMCAP is not displayed.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.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. ;
29 ☐	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 22)
30 ☐	Response to allow card command is shown.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.yy.y Upg Phase 0 Card has been allowed. ;
31 ☐	Issue the card status command to verify the target release GPL is running.	**rept-stat-gpl:gpl=oamhc** (E5-MCAP OAM cards)
32 ☐ ☐	Response from the status command is displayed. Verify that the GPL versions that are displayed in the "RUNNING" indicate an ALM. The ALM means the running GPL doesn't match the "APPROVED" version. Verify that both OAM cards are running the same GPL version. If not running the correct versions contact the Customer Care Center.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.yy.y Upg Phase 0 rept-stat-gpl:gpl=oam Command entered at terminal #10. ; tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.yy.y Upg Phase 0 GPL Auditing ON APPL CARD RUNNING APPROVED TRIAL OAMHC 1113 XXX-XXX-XXX ALM YYY-YYY-YYY ---------- 5 OAMHC 1115 XXX-XXX-XXX ALM YYY-YYY-YYY ---------- Command Completed. ;
33 ☐	Issue the command to report card status to determine the active MASP.	**rept-stat-card**

[5] Dashes are displayed until GPL auditing has initialized after the activity has been switched, which may take up to two minutes.

Procedure 19: Verify Source Database and enter Software Access Key

34 ☐ ☐ ☐	Typical response to a card status command. Determine if both MASPs are IS-NR. If not, pause 5 seconds and 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.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.yy.y Upg Phase 0 CARD VERSION TYPE APPL PST SST AST 1101 022-115-000 LIMV35 SS7ANSI IS-NR Active ----- 1102 022-115-000 LIMV35 SS7ANSI IS-NR Active ----- 1103 022-115-000 MCPM MCP IS-NR Active ----- 1104 022-115-000 LIMDS0 SS7ANSI IS-NR Active ----- 1105 ----------- MCPM MCP OOS-MT Isolated ----- 1106 022-112-000 LIMV35 SS7GX25 IS-NR Active ----- 1107 022-111-000 ACMENET STPLAN IS-ANR Active ----- 1108 022-115-000 ASM SCCP IS-NR Active ----- 1111 ----------- ASM SCCP OOS-MT Isolated ----- 1112 022-115-000 ASM GLS IS-NR Active ----- 1113 XXX-XXX-XXX GPSM OAMHC IS-NR Active ----- 1114 ----------- TDM ------- IS-NR Active ----- 1115 XXX-XXX-XXX GPSM OAMHC IS-NR Standby ----- 1116 ----------- TDM ------- IS-NR Active ----- 1117 ----------- MDAL ------- IS-NR Active ----- 1201 022-115-000 DCM IPLIM IS-NR Active ----- Command Completed. ;
35 ☐	Issue the Send Message command that performs checks for obsolete cards.	**send-msg:loc=XXXX:ds=1:da=h'1d:f=h'61** *(Where **XXXX** is the location of the active MASP)* Note: It is important to enter the correct active MASP location determined in the previous step. Incorrect results could be displayed otherwise.
36 ☐ ☐ ☐	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: _____	**tekelecstp 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 1113.** ; tekelecstp YY-MM-DD hh:mm:ss zzz PPPPP XX.x.x-YY.y.y IMT Bus Check Started IMT Bus Check Completed Successfully. Hardware Validation Test Started [EDCM Obsolescence Test for SIGTRAN(IP) application] [DSM-1G Obsolescence Test for IPS application] [TSM-256 Obsolescence Test for GLS application.] *** EDCM card running the SIGTRAN(IP) application in slot 1105 obsolete. *** DSM-1G card running the IPS application in slot 1106 obsolete. *** TSM-256 card running the GLS application in slot 1107 obsolete. Obsolete card's count = 3 Hardware Validation Test failed, Upgrade can not proceed.
37 ☐	Issue the Send Message command that checks for possible conflicts of IP addresses configured in the system.	**send-msg:loc=XXXX:ds=1:da=h'1d:f=h'63** *(Where XXXX is the location of the active MASP)* **Note:** It is important to correctly enter the active MASP location determined in step 33. Otherwise, incorrect results could be displayed. .

Procedure 19: Verify Source Database and enter Software Access Key

38 ☐	Response to command is displayed. ☐ Verify that the Fast Copy network A or B address do ***NOT*** conflict with the Local IP Network address; shaded error text is ***NOT*** displayed. If conflicts are detected, this procedure fails until changes are made to the local IP network address. ☐ Verify if the Fast Copy network A or B address do ***NOT*** conflict with IP Route; shaded error text is ***NOT*** displayed. If conflicts are detected, this procedure fails until changes are made to the IP Route. ☐ Verify that the FC network A or B address conflict with the PVN Network address; shaded error text is ***NOT*** displayed. If conflicts are detected, this procedure fails until changes are made to the PVN. ☐ Verify that the IP Address Validation check passes. Verify that the shaded error text is ***NOT*** displayed. If check does not pass, this procedure fails until provisioning changes are made.	tekelecstp YY-MM-DD hh:mm:ss zzz PPPPP 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*. ; tekelecstp YY-MM-DD hh:mm:ss zzz PPPPP XX.x.x-YY.y.y Upg Phase 0 PVN and FC Network Conflict Validation Report PVN conflicts with the FC Network A PVN conflicts with the FC Network B End PVN and FC Network Conflict Validation Report IP Route Conflict Validation Report Local IP network address on card loc=1102 matches Eagle PVN Local IP network address on card loc=1102 matches FC Network A Local IP network address on card loc=1102 matches FC Network B Destination of IP Route on card loc=1102 matches Eagle PVN Destination of IP Route on card loc=1102 matches Eagle FC network A Destination of IP Route on card loc=1102 matches Eagle FC network B End IP Route Conflict Validation Report. tekelecstp YY-MM-DD hh:mm:ss zzz PPPPP XX.x.x-YY.y.y Upg Phase 0 IP Address Validation Report Notice: Current Eagle PVN/PVNMASK violate target release provisioning rule Notice: PVN/FCN A IP addresses are same after upgrade Notice: PVN/FCN B IP addresses are same after upgrade Notice: PVN/IP Rte IP address on 1102 are same after upgrade Notice: FCN A/IP Rte IP address on 1102 are same after upgrade Notice: FCN B/IP Rte IP address on 1102 are same after upgrade Notice: PVN/Local IP address on 1102 are same after upgrade Notice: FCN A/Local IP address on 1102 are same after upgrade Notice: FCN B/Local IP address on 1102 are same after upgrade IP Address Validation Result: Fail or Attention Required. ;
39 ☐	Issue the command to enter the software access key.	**chg-upgrade-config:sak=XXXXXXXXXXXXX:src=fixed** (Where XXXXXXXXXXXXX is the Software Access Key)
40 ☐	Response to command is displayed. ☐ Verify the command completed successfully and the correct Upgrade target release is output	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.yy.y Upg Phase 0 chg-upgrade-config:sak=XXXXXXXXXXXXX:src=zzzzz Command entered at terminal #6. ; tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.yy.y Upg Phase 0 Upgrade target: EAGLE XX.x.x-YY.y.y ; tekelecstp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y Command Completed. ;
41 ☐	Issue the command to initialize the active and standby MASP cards so that they are running the source release software.	**init-card:appl=oam**
42 ☐	Response to the initialize-card command is displayed	tekelecstp YY-MM-DD hh:mm:ss zzz PPPPP XX.x.x-YY.y.y init-card:appl=oam Command entered at terminal #X. ;
43 ☐	Issue command to log back in to the system.	**login:uid=*XXXXXX*** (Where *XXXXXX* is a valid login ID)

Procedure 19: Verify Source Database and enter Software Access Key

44 ☐	Response to login command is displayed.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.yy.y User logged in on terminal X
45 ☐	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)*
46 ☐ ☐	Response to activate command is displayed. Verify that the capture terminal is correctly collecting data.	tekelecstp YY-MM-DD hh:mm:ss ZZZZ PPPPP XX.x.x-YY.yy.y Scroll Area Output will be echoed to Terminal X. ; *(**Caution**: loss of output may occur if too many terminals are echoed)*
47 ☐	Issue the command to report card status.	**rept-stat-card**
48 ☐	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.	tekelecstp YY-MM-DD hh:mm:ss zzzz PPPPP XX.x.x-YY.yy.y CARD VERSION TYPE GPL PST SST AST 1101 134-061-000 DCM IPGHC IS-NR Active ALMINH 1102 134-061-000 DCM IPLHC IS-NR Active ALMINH 1103 134-061-000 E5ENET 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 ----- Command Completed. ;
49 ☐	Issue the command to report trouble status.	**rept-stat-trbl:display=timestamp**
50 ☐	Response to trouble status command is displayed. Record any non-network alarms. Alarm _____	tekelecstp YY-MM-DD hh:mm:ss zzz PPPPP XX.x.x-YY.yy.y Searching devices for alarms... ; tekelecstp 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 5730.0155 * DLK 1107,A STPLAN connection unavailable 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. ;
51 ☐	All steps in this procedure were completed.	

3.20 Verifying Fixed and Removable Media (Part 1)

Procedure 20: Verifying Fixed Disks Functions with TST-DSK

STEP #	**This procedure verifies that EAGLE fixed disks and removable disk\drive 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.	`sysint211 98-03-09 17:59:25 EST Rel XX.X.X`
		`7706.1114 CARD 1115 Database BACKUP started`
		`Report Date:98-03-09 Time:17:59:25`
		`;`
		
		`sysint211 98-03-09 17:59:44 EST Rel XX.X.X`
		`BACKUP (FIXED): MASP B - Backup starts on active MASP.`
		`;`
		
		`sysint211 98-03-09 18:04:08 EST Rel XX.X.X`
		`BACKUP (FIXED): MASP B - Backup on active MASP to fixed disk complete.`
		`;`
		
		`sysint211 98-03-09 18:04:08 EST Rel XX.X.X`
		`BACKUP (FIXED): MASP B - Backup starts on standby MASP.`
		`;`
		
		`sysint211 98-03-09 18:07:59 EST Rel XX.X.X`
		`BACKUP (FIXED): MASP B - Backup on standby MASP to fixed disk complete.`
		`;`

3 ☐	**If not already inserted, insert the source removable media drive into the system**	
4 ☐	Issue the command to backup to the removable. Otherwise, procedure needs to be rescheduled.[6]	`chg-db:action=backup:dest=remove`

5 ☐
 	
☐
	Response to backup command is displayed.
	
	Record which MASP is active:
	
	A or B: _____
	
	If A, then 1113/1114 are active. If B, than 1115/1116 is active.
		`tekelecstp 98-01-26 09:21:21 EST Rel XX.X.X`
		`BACKUP (REMOVABLE): MASP A - Backup starts on active MASP.`
		`;`
		
		`tekelecstp 98-01-26 09:21:21 EST Rel XX.X.X`
		`0465.1114 CARD 1113 Database BACKUP started`
		`Report Date:98-03-31 Time:00:02:03`
		`;`
		
		`tekelecstp 98-01-26 09:21:23 EST Rel XX.X.X`
		`BACKUP (REMOVABLE): MASP A - Backup to removable cartridge complete.`
		`;`
		
		`tekelecstp 98-01-26 09:29:13 EST Rel XX.X.X`
		`0466.1116 CARD 1113 Database action ended - OK`
		`Report Date:98-03-31 Time:00:05:08`
		`;`

6 ☐	Issue the command to copy GPLs from active TDM to removable drive.	`copy-gpl:sloc=XXXX:ddrv=remove`

7 ☐	Response to copy GPL command is displayed
	
	Verify command completes successfully.
		`tekelecstp 98-01-26 09:29:39 EST Rel XX.X.X`
		`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)`
		`;`

8 ☐	Remove the removable drive from the active MASP. Update the label with release and database level. Store in a safe place for later use.	

[6] A removable media drive needs to be inserted to complete the procedure. If the drive cannot be inserted, go to step 6 however this procedure fails.

Procedure 20: Verifying Fixed Disks Functions with TST-DSK

9 ☐	Issue the commands to display disk directory of the fixed disk.	**disp-disk-dir:loc=XXXX** *(Where XXXX is the standby TDM)*
10 ☐	Response to the display command is displayed. Verify command completes successfully. *Note that the output data may vary from this example.*	tekelecstp YY-MM-DD hh:mm:ss EST 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 ;
11 ☐	Issue this command to test the fixed disk.	**tst-disk:loc=XXXX:partition=all** *(Where XXXX is the standby fixed disk)*
12 ☐ ☐	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.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y TST-DISK RESULTS: Total clusters: 983290 Free Clusters: 983290 Bad Clusters: 0 Total Free Space: 3933160 Max. Contiguous Free Space: 3933160 Files: 932 Folders: 0 Bytes in Files: 3761348 Lost Chains: 0 Bytes in Lost Chains: 0 ;
13 ☐	Issue the command to initialize the active MASP.	**init-card:loc=*XXXX*** (Where ***XXXX*** is the location of the active E5-MASP)
14 ☐	Response to the initialize command is displayed	tekelecstp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y init-card:loc=XXXX Command entered at terminal #10. ; tekelecstp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y ** 6573.0013 ** CARD XXXX OAMHC Card is isolated from the system ASSY SN: xxxxxxxxxxxx ; tekelecstp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y 6577.0014 CARD XXXX OAMHC Card is present ASSY SN: xxxxxxxxxxxx ;
15 ☐	Issue the command to log in to the EAGLE terminal.	**login:uid=XXXXXX** *(Where XXXXXX is your login ID)*
16 ☐	Response to login command is displayed.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y User logged in on terminal X ;
17 ☐	Issue the command to activate capture.	**act-echo:trm=P** *(Where P is a terminal port used in Procedure 3.2, Step 5)*
18 ☐	Response to activate command is displayed.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y Scroll Area Output will be echoed to Terminal X. ;
19 ☐	Repeat Steps 9-12 for the formerly-active TDM.	
20 ☐	All steps in this procedure were completed.	

3.21 Testing IMT Status

Procedure 21: Testing IMT Buses

STEP #		
	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.**	
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.	tekelecstp 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. ;
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.	tekelecstp YY-MM-DD HH:MM:SS tzone Rel XX.X.X-YY.Y.Y Inhibit IMT Bus A command issued ; tekelecstp YY-MM-DD HH:MM:SS tzone Rel XX.X.X-YY.Y.Y 0401.0098 IMT BUS A IMT inhibited ;
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.	tekelecstp 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 ;
7 ☐	Issue the command to allow the IMT bus.	**alw-imt:bus=A**
8 ☐	Response to allow IMT bus command is displayed.	tekelecstp YY-MM-DD HH:MM:SS tzone Rel XX.X.X-YY.Y.Y Allow IMT Bus A command issued ; tekelecstp YY-MM-DD HH:MM:SS tzone Rel XX.X.X-YY.Y.Y 0403.0097 IMT BUS A IMT allowed ;
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.	tekelecstp YY-MM-DD HH:MM:SS tzone Rel XX.X.X-YY.Y.Y Extended BERT: Command in progress... ; tekelecstp YY-MM-DD HH:MM:SS tzone Rel XX.X.X-YY.Y.Y Extended BERT: Target Bus A will be inhibited ; tekelecstp YY-MM-DD HH:MM:SS tzone Rel XX.X.X-YY.Y.Y 5042.0098 IMT BUS A IMT inhibited ; tekelecstp YY-MM-DD HH:MM:SS tzone Rel XX.X.X-YY.Y.Y Extended BERT: Active MASP will be reconnected on Bus A ; tekelecstp 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.

Procedure 21: Testing IMT Buses

☐	"PASS" messages displayed in BERT Status column.	; tekelecstp YY-MM-DD HH:MM:SS tzone Rel XX.X.X-YY.Y.Y Command Completed. *After 10 minutes:* tekelecstp 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 CARD TYPE SERIAL_NUMBER BERT_STATUS BIT_ERROR ERRORED_SEC DURATION 1110 HIPR2 10208345012 PASS 3 2 01:00:00 1210 HIPR2 10208345031 PASS 2 1 01:00:00 1310 HIPR2 10208345052 PASS 5 3 01:00:00 ; tekelecstp YY-MM-DD HH:MM:SS tzone Rel XX.X.X-YY.Y.Y Extended BERT: Target Bus A will be allowed ; tekelecstp YY-MM-DD HH:MM:SS tzone Rel XX.X.X-YY.Y.Y 5042.0098 IMT BUS A IMT allowed ;
11 ☐	Issue the status command for the IMT buses.	**rept-stat-imt:mode=full**
12 ☐	Response to IMT bus status command is displayed. ☐ Verify that bus has returned to IS-NR.	tekelecstp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y IMT PST SST AST A IS-NR Active ----- ALARM STATUS = No Alarms. IMT PST SST AST B IS-NR Active ----- ALARM STATUS = No Alarms. Command Completed. ;
13 ☐	Repeat Steps 3 – 12 for IMT Bus B.	Repeat command in order to test IMT Bus B
14 ☐	All steps in this procedure were completed.	

3.22 Verifying Fixed and Removable Media (Part 2)

Procedure 22: Verifying Fixed Disks and Removable Media Function with TST-DISK

STEP #		
	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:appl=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 _____
		`tekelecstp 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 E%MCAP OAMHC IS-NR Standby -----`
		`1115 XXX-XXX-XXX E5MCAP OAMHC IS-NR Active -----`
		
		`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.
		`tekelecstp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y`
		`COMPOSITE PST SST AST`
		`SYSTEM CLOCK IS-ANR Idle -----`
		`ALARM STATUS = No Alarms.`
		`Primary Comp Clk 1114 (CLK A) IS-NR Active`
		`Primary Comp Clk 1116 (CLK B) IS-NR Idle`
		`Secondary Comp Clk 1114 (CLK A) IS-NR Idle`
		`Secondary Comp Clk 1116 (CLK B) IS-NR Idle`
		
		`Clock Using Bad`
		`CLK A 3 0`
		`CLK B 0 3`
		`CLK I 0 --`
		
		`HIGH SPEED PST SST AST`
		`SYSTEM CLOCK IS-NR Idle -----`
		`ALARM STATUS = No Alarms.`
		`Primary HS Clk 1114 (HS CLK A) IS-NR Active`
		`Primary HS Clk 1116 (HS CLK B) IS-NR Idle`
		`Secondary HS Clk 1114(HS CLK A) IS-NR Idle`
		`Secondary HS Clk 1116(HS CLK B) IS-NR Idle`
		
		`HS CLK TYPE 1114 = RS422`
		`HS CLK LINELEN 1114 = -----`
		`HS CLK TYPE 1116 = RS422`
		`HS CLK LINELEN 1116 = -----`
		
		`Clock Using Bad`
		`HS CLK A 0 0`
		`HS CLK B 0 0`
		`HS CLK I 0 --`
		
		`Cards with bad clock source:`
		`CARD CLK A CLK B HS CLK A HS CLK B`
		`1103 Active Fault ----- -----`
		`1105 Active Fault ----- -----`
		`1113 Active Fault ----- -----`

Procedure 22: Verifying Fixed Disks and Removable Media Function with TST-DISK

			Command Completed. ;
6 ☐	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).	
7 ☐	Display database version information.		**rept-stat-db:display=version**
8 ☐	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 the Customer Care Center.**		tekelecstp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y DATABASE STATUS: >> NOT OK (DMS) << TDM 1114 (STDBY) TDM 1116 (ACTV) C LEVEL TIME LAST BACKUP C LEVEL TIME LAST BACKUP - ----- ------------------- - ------ ------------------- FD BKUP Y ZZZ YY-MM-DD hh:mm:ss EST Y XXX YY-MM-DD hh:mm:ss EST FD CRNT Y ZZZ DIFF LEVEL Y XXX MDAL 1117 - -------- RD BKUP Y XXX YY-MM-DD hh:mm:ss EST CARD/APPL LOC C T LEVEL TIME LAST UPDATE VERSION STATUS --------- ---- - - -------- ----------------- ------------------- TDM-CRNT 1114 Y N ZZZ YY-MM-DD hh:mm:ss XXX-XXX-XXX NORMAL TDM-BKUP 1114 Y - ZZZ YY-MM-DD hh:mm:ss XXX-XXX-XXX NORMAL TDM-CRNT 1116 Y N XXX YY-MM-DD hh:mm:ss XXX-XXX-XXX NORMAL TDM-BKUP 1116 Y - XXX YY-MM-DD hh:mm:ss XXX-XXX-XXX NORMAL MDAL 1117 - - - - - - - ;
9 ☐	Issue the command to verify the GPL versions.		**rtrv-gpl**
10 ☐	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.		tekelecstp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y GPL Auditing ON APPL CARD RELEASE APPROVED TRIAL REMOVE TRIAL UTILITY 1114 XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX UTILITY 1116 XXX-XXX-XXX XXX-XXX-XXX ALM XXX-XXX-XXX ---------- OAM 1114 XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX OAM 1116 XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX ---------- GLS 1114 XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX GLS 1116 XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX ---------- SCCP 1114 XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX SCCP 1116 XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX ---------- SS7ANSI 1114 XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX SS7ANSI 1116 XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX ---------- CCS7ITU 1114 XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX CCS7ITU 1116 XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX ---------- SS7GX25 1114 XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX SS7GX25 1116 XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX ---------- STPLAN 1114 XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX STPLAN 1116 XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX ---------- IMT 1114 XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX IMT 1116 XXX-XXX-XXX XXX-XXX-XXX XXX-XXX-XXX ---------- ;
11 ☐	Issue the command to copy GPLs.		**copy-gpl:sloc=yyyy:dloc=XXXX** *(where yyyy is the active MASP(1113/1115) and XXXX is the standby TDM (1114/1116) location recorded in step 2)*
12 ☐	Response to copy GPL command is displayed. ☐ Verify command completes successfully.		tekelecstp YY-MM-DD hh:mm:ss EST 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 ;
13 ☐	Issue the command to repair the standby disk.		**chg-db:action=repair**
14 ☐	Response to repair command is displayed. **This command may take up to 45 minutes to complete**		tekelecstp YY-MM-DD hh:mm:ss EST 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.

Procedure 22: Verifying Fixed Disks and Removable Media Function with TST-DISK

15 ☐	Issue the commands to display disk directory of the standby MASP.	**disp-disk-dir:loc=XXXX** *(where XXXX is the standby MASP disk slot)*
16 ☐ ☐	Response to display disk directory command is displayed. Verify command completes successfully. *Note that the output data may vary from this example.*	tekelecstp YY-MM-DD hh:mm:ss EST 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 ;
17 ☐	Issue this command to test the fixed disk.	**tst-disk:partition=all:loc=XXXX** *(where XXXX is the standby MASP disk slot recorded in step 2)*
18 ☐ ☐	Response to the test disk command is displayed. Verify that there are no errors and retries are indicated.	tekelecstp 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 ;
19 ☐	Issue the commands to display disk directory of the removable media.	**disp-disk-dir:loc=xxxx:src=remove** ***(Where XXXX is the active MASP)***
20 ☐	Response to disp-disk-dir command is displayed. Verify command completes successfully. *Note that the output data may vary from this example.*	tekelecstp YY-MM-DD hh:mm:ss EST 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 (additional files listed …) File(s) : 182 Bytes : 511026520 Disk Size (MB) : 1910 ;
21 ☐	Issue this command to test the removable media.	**tst-disk:disk=remove:loc=xxxx** ***(Where XXXX is the active MASP)***
22 ☐ ☐	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.	tekelecstp 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 ;
23 ☐	Remove the removable media from the system and place in a safe place.	

Procedure 22: Verifying Fixed Disks and Removable Media Function with TST-DISK

24 ☐	Issue the initialize card command for the active MASP.	**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)*
25 ☐	Response to the initialize command is displayed.	tekelecstp 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 ; tekelecstp 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 ;
26 ☐	Issue the command to log in to the EAGLE terminal.	**login:uid=XXXXXX** *(Where XXXXXX is your login ID)*
27 ☐	Response to login command is displayed.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y User logged in on terminal X ;
28 ☐	Issue the command to activate capture. Refer to Section 2.1.2 for information on how to set up terminals for data capture.	**act-echo:trm=P** *(Where P is a terminal port used in Procedure 3.2, Step 5)*
29 ☐	Response to activate command is displayed.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y act-echo:trm=P Command entered at terminal #X. ; tekelecstp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y Scroll Area Output will be echoed to Terminal X. ;
30 ☐	Issue the command to report the status of the MDAL.	**rept-stat-card:loc=1117**
31 ☐	Response to the status command is displayed. Verify that status is IS-NR.	tekelecstp YY-MM-DD hh:mm:ss EST PPP XX.x.x-YY.y.y CARD VERSION TYPE APPL PST SST AST 1117 ---------- MDAL IS-NR Active ----- Command Completed. ;
32 ☐	Repeat Steps 24 – 31. If second time executing this step, continue to next step.	
33 ☐	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.)*
34 ☐ ☐	Response to the inhibit command is displayed Verify UAM 514 is displayed.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y Card is inhibited. ; tekelecstp YY-MM-DD hh:mm:ss TTTT PPP XX.x.x-YY.y.y ** 7991.0514 ** CARD xxxx OAMHC Standby MASP is inhibited ; **Wait for card to boot and return to the IMT bus.**

Procedure 22: Verifying Fixed Disks and Removable Media Function with TST-DISK

35 ☐ 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).

36 ☐ Issue the allow card to bring the standby MASP in service.

```
alw-card:loc=xxxx
 (Where XXXX is the location of the standby MASP specified in step 32)
```

37 ☐ Response to allow card is displayed.

```
    tekelecstp YY-MM-DD hh:mm:ss TTTT PPP  XX.x.x-YY.y.y
    Card has been allowed.
;

    tekelecstp 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
;
```

38 ☐ Display database version information.

```
act-upgrade:action=dbstatus
```

39 ☐ 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 the Customer Care Center.**

☐ 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 the Customer Care Center.

```
   tekelecstp YY-MM-DD hh:mm:ss TTTT PPP  XX.x.x-YY.y.y
   DATABASE STATUS: >> OK <<
           TDM 1114 ( ACTV )                TDM 1116 ( STDBY)
            C   LEVEL    TIME LAST BACKUP    C   LEVEL  TIME LAST BACKUP
            - ------- ----------------------  - ------- -----------------
   FD BKUP  Y     XXX YY-MM-DD hh:mm:ss TTTT Y     XXX YY-MM-DD hh:mm:ss TTTT
   FD CRNT  Y     XXX                        Y     XXX
      MDAL 1117
            - -------
    RD BKUP Y       1     -        -

    CARD/APPL  LOC   C  T  LEVEL      TIME LAST UPDATE   VERSION STATUS
    ---------  ----  -  -  ---------  -----------------  -------------------
    TDM-CRNT   1114  Y  N  XXX        YY-MM-DD hh:mm:ss  XXX-XXX-XXX  NORMAL
    TDM-BKUP   1114  y  -  XXX        YY-MM-DD hh:mm:ss  XXX-XXX-XXX  NORMAL
    TDM-CRNT   1116  Y  N  XXX        YY-MM-DD hh:mm:ss  XXX-XXX-XXX  NORMAL
    TDM-BKUP   1116  Y  -  XXX        YY-MM-DD hh:mm:ss  XXX-XXX-XXX  NORMAL
    MDAL       1117  Y  -  1            -        -      YYY-YYY-YYY  NORMAL

    INACTIVE PARTITION GROUP
    CARD/APPL  LOC   C  T  LEVEL       TIME LAST UPDATE   VERSION STATUS
    ---------  ----  -  -  ----------  -----------------  -------------------
    TDM-CRNT   1114  Y  -  ZZZ        YY-MM-DD hh:mm:ss  ZZZ-ZZZ-ZZZ  NORMAL
    TDM-BKUP   1114  Y  -  ZZZ        YY-MM-DD hh:mm:ss  ZZZ-ZZZ-ZZZ  NORMAL
    TDM-CRNT   1116  Y  -  ZZZ        YY-MM-DD hh:mm:ss  ZZZ-ZZZ-ZZZ  NORMAL
    TDM-BKUP   1116  Y  -  ZZZ        YY-MM-DD hh:mm:ss  ZZZ-ZZZ-ZZZ  NORMAL

;
```

40 ☐ All steps in this procedure were completed.

3.23 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 23: Collect Table Capacity Status

STEP #	This procedure collects the current capacity of certain database tables. Upon analysis of the health check data capture, it is Tekelec's goal 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 3.2, 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` *(Where XX is any Type displayed in step 4)*
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`

3.24 Health Check Conclusion

Procedure 24: Return the System to Former Configuration

STEP #	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 3.2, Step 4.)* *(YYY is an output group that was recorded in Procedure 3.2, Step 4.)* *(ZZZ is another output group that was recorded in Procedure 3.2, Step 4.)*
2 ☐	Response to change terminal command is displayed.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y chg-trm:trm=P:YYY=yes,ZZZ=no Command entered at terminal #X. ; tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y CHG-TRM: MASP A - COMPLTD ;
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 3.2, Step 4.)* *(YYY is an output group that was recorded in Procedure 3.2, Step 4.)* *(ZZZ is another output group that was recorded in Procedure 3.2, Step 4.)* *(TTT is the timeout value that was recorded in Procedure 3.2, Step 4*
4 ☐	Response to change terminal command is displayed.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y chg-trm:trm=X:YYY=yes,ZZZ=no Command entered at terminal #X. ; tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y CHG-TRM: MASP A - COMPLTD ;
5 ☐	Issue the command to cancel capture.	**canc-echo:trm=P** *(Where P is a terminal port that was recorded in Procedure 3.2, Step 4)*
6 ☐	Response to cancel command is displayed.	tekelecstp YY-MM-DD hh:mm:ss TTTT PPPPP XX.x.x-YY.y.y canc-echo:trm=P Command entered at terminal #X. ; tekelecstp 98-03-09 08:29:26 EST Rel XX.X.X-YY.Y.Y Scroll Area Output echo disabled for terminal X. ;
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 the Customer Care Center at **1-888-FOR-TKLC or 919-460-2150 (international)** if any failed procedures. Be prepared to identify your Release level, which procedures failed, and at what point each procedure failed.

APPENDIX A. ACCESSING TEKELEC'S CUSTOMER SUPPORT SITE

Access to Tekelec's Customer Support site is restricted to current Tekelec customers only. This section describes how to log into Tekelec's Customer Support site and locate a document. Viewing the document requires Adobe Acrobat Reader, which can be downloaded at www.adobe.com.

1. Log into Tekelec new Customer Support site at support.tekelec.com.

   Note: If you have not registered yet for this new site, click the **Register Here** link. Have your customer number available. The response time to registration requests is 24 to 48 hours.

2. Click the Product Support tab.

3. Use the Search field to locate quickly a document by its part number, release number, document name, or document type. The Search field accepts both full and partial entries.

4. Click a subject folder to browse through a list of related files.

5. To download a file to your location, right-click the file name and select **Save Target As**.