

Tekelec EAGLE® 5 Integrated Signaling System

Release 40.1

Feature Notice

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Patents

This product is covered by one or more of the following U.S. and foreign patents:

U.S. Patent Numbers:

5,732,213; 5,953,404; 6,115,746; 6,167,129; 6,324,183; 6,327,350; 6,456,845; 6,606,379; 6,639,981; 6,647,113; 6,662,017; 6,735,441; 6,745,041; 6,765,990; 6,795,546; 6,819,932; 6,836,477; 6,839,423; 6,885,872; 6,901,262; 6,914,973; 6,940,866; 6,944,184; 6,954,526; 6,954,794; 6,959,076; 6,965,592; 6,967,956; 6,968,048; 6,970,542; 6,987,781; 6,987,849; 6,990,089; 6,990,347; 6,993,038; 7,002,988; 7,020,707; 7,031,340; 7,035,239; 7,035,387; 7,043,000; 7,043,001; 7,043,002; 7,046,667; 7,050,456; 7,050,562; 7,054,422; 7,068,773; 7,072,678; 7,075,331; 7,079,524; 7,088,728; 7,092,505; 7,108,468; 7,110,780; 7,113,581; 7,113,781; 7,117,411; 7,123,710; 7,127,057; 7,133,420; 7,136,477; 7,139,388; 7,145,875; 7,146,181; 7,155,206; 7,155,243; 7,155,505; 7,155,512; 7,181,194; 7,190,702; 7,190,772; 7,190,959; 7,197,036; 7,206,394; 7,215,748; 7,219,264; 7,222,192; 7,227,927; 7,231,024; 7,242,695; 7,254,391; 7,260,086; 7,260,207; 7,283,969; 7,286,516; 7,286,647; 7,286,839; 7,295,579; 7,299,050; 7,301,910; 7,304,957; 7,318,091; 7,319,857; 7,327,670

Foreign Patent Numbers:

EP1062792; EP1308054; EP1247378; EP1303994; EP1252788; EP1161819; EP1177660; EP1169829; EP1135905; EP1364520; EP1192758; EP1240772; EP1173969; CA2352246

Ordering Information

Your Tekelec Sales Representative can provide you with information about how to order additional discs.

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Feature Notice

Feature Content

Introduction

Feature notices are distributed to customers with each new release of software.

This *Feature Notice* includes a brief overview of each feature, lists new hardware required (if any), provides the hardware baseline for this release, and explains how to find the *Release Notice* and other customer documentation on the Customer Support Site.

Updates to the Feature Notice

The following updates have been made to the Feature Notice since Revision B:

- [Update to the msutrace Command](#)
The Help text for the **msutrace** command is updated to display the requirement for a valid filter key before specifying the **chgfilter** parameter.
- [Update to the rtrv-rte Command](#)
The format of the **rtrv-rte** command is revised to enhance readability.
- [Update to the rtrv-rtx Command](#)
The format of the **rtrv-rtx** command is revised to enhance readability.
- [Update to the rtrv-tbl-capacity Command](#)
The **rtrv-tbl-capacity** command is updated to display IP Host table information.
- [Update to the sctp command](#)
The output for the **sctp** command is updated to enhance readability.
- [Update to the tst-msg and tst-npp-msg Commands](#)
The section title and output formats are updated.
- The [Commands](#) section for the E5-OAM cards is updated.
- The [Error Messages](#) are updated.

New Features

The EAGLE 5 ISS Release 40.1 contains the following new features.

- [E5-OAM Cards \(E5-MASP and E5-MDAL\)](#)
The existing EAGLE 5 ISS OA&M card set, consisting of GPSM-II, TDM, and MDAL cards, is replaced by an E5-OAM card set.

- [EAGLE 5 ISS Fast Copy](#)
The EAGLE 5 ISS Fast Copy feature introduces a fast copy interface to the Integrated Message Feeder. This interface allows monitored SIGTRAN data to be transported while bypassing the IMT and network stack.
- [GTT Loadsharing between ITU Network Types](#)
The GTT Loadsharing between ITU Network Types feature allows GTT loadsharing to occur between ITU-National (ITU-N), ITU-N spare, ITU-International (ITU-I), and ITU-I spare point codes within the same MAP or MRN set.
- [GTT Loadsharing with Alternate Routing Indicator](#)
The GTT Loadsharing with Alternate Routing Indicator feature allows secondary mate searches to be performed in the MRN table if the point codes provisioned in the MAP set are unavailable and in the MAP table if the point codes in an MRN set are unavailable.
- [MO SMS B-Party Routing](#)
The MO SMS B-Party Routing feature allows global translation type routing to be performed on IS41 MO SMDPP and GSM MO_FSM messages based on the SMS B-party digits from the MAP layer of the message.
- [MO SMS NPP](#)
The MO SMS NPP feature applies comprehensive Numbering Plan Processor (NPP) number conditioning and service logic execution to existing short message service (SMS) features.
- [MO SMS Prepaid Intercept on B-Party](#)
The MO SMS Prepaid Intercept on B-Party feature allows the existing Prepaid Intercept Phase 1 feature to redirect MO SMS messages based on whether the B-Party of the subscriber is prepaid. MO SMS messages for prepaid subscribers can also be redirected to a different short message service center (SMSC) than postpaid subscribers.

Other Changes

The EAGLE 5 ISS Release 40.1 contains the following enhancements:

- [Addition of Incoming and Outgoing Linkset Name to SLAN report for ECAP](#)
A new message format is supported for transmission of an MSU report from the STPLAN to the ECAP. This format allows incoming and outgoing linkset names to be included in the MSU.
- [Configurable Message Priority](#)
This enhancement allows the priority to be set for MTP-routed and GT-routed messages that cross to ITUI, ITUN, or ITUN-24 networks .
- [NPP-AS and NPP-SRS Capacities](#)
The NPP-AS and NPP-SRS Capacities are reported in the output of the associated commands.
- [Support for 125 IPGW Cards](#)
The EAGLE 5 ISS can support up to 125 SSEDCEM cards, E5-ENET cards, or a mixture of SSEDCEM and E5-ENET cards that are running the **ss7ipgw** or **ipgwi** application.
- [Table Increase for NPFLGRST](#)
The NPFLGRST CSL table allows up to 1024 entries to be provisioned.
- [Update to the chg/rtrv-ppsopts Commands](#)

Feature Notice

The **chg-ppsopts** command is enhanced to allow the subsystem number to be provisioned with point code and routing indicator information

- [Update to the Prepaid SMS Intercept Ph1 Feature](#)
Support for a temporary FAK for the Prepaid SMS Intercept Ph1 feature is removed.
- [Update to the rept-stat-sccp Command](#)
The **rept-stat-sccp** command is updated to display CPU usage details for the LNP subsystem.
- [Update to the tst-msg and tst-npp-msg Commands](#)
The output formats of the **tst-msg** and **npp-tst-msg** commands are enhanced to provide increased clarity.

Operational Changes

The EAGLE 5 ISS Release 40.1 contains the following alarms and error messages:

- [Unsolicited Alarm Messages](#)
- [Unsolicited Information Messages](#)
- [Error Messages](#)

E5-OAM Cards (E5-MASP and E5-MDAL)

The existing set of EAGLE 5 ISS OA&M cards (GPSM-II, TDM, and MDAL cards) is replaced by an E5-OAM card set. This set contains an E5-MASP assembly (870-2903-01) and an E5-MDAL card (870-2900-01).

The E5-MASP assembly consists of an E5-MCAP card and an E5-TDM card. These cards are physically attached to each other and must always be used or replaced together. The E5-MASP assembly can be inserted into slots 1113/1114 or 1115/1116.

The E5-MDAL card can be inserted into slot 1117.

Two E5-MASP assemblies and an E5-MDAL card comprise an E5-OAM set.

Legacy GPSM-II, TDM, or MCAP cards cannot exist in the system with any of the new cards. All of the relevant cards must be legacy or all of the cards must be new. The only exception is during a hardware migration from a legacy system to a new system.

A new **blmcap** flash GPL is used to maintain a tar image of the code that is required for the E5-MCAP cards. A new **oamhc** GPL is used to perform OAM functions on the E5-MCAP cards.

The drive configuration for the E5-OAM card set significantly differs from the OAM card set. The E5-MDAL card does not contain an optical drive. The E5-TDM contains a hard drive. The E5-MCAP card contains two USB ports, a latched port, which replaces the existing MO drive as the removable drive, and a flush mount port. After the E5-OAM card set is introduced, activities for those cards can be performed on either the hard drive or the removable drives.

Feature Control Requirements

There are no requirements associated with the E5-OAM card set.

Hardware Requirements

The E5-MASP assemblies require HIPR cards to be installed in the 1109 and 1110 slots.

Commands

The following commands are added or enhanced to support the E5-OAM card set. For complete descriptions of these commands, refer to the *Commands Manual* for the EAGLE 5 ISS Release 40.1 documentation set.

- **act/chg/copy/rept-stat/rtrv-gpl**—Enhanced to support the **oamhc** and **blmcap** GPLs and to allow a USB drive to be used as the source. The output for the **copy-gpl** command is enhanced to increase readability.

The following examples display output for the **copy-gpl** command. Example 1 displays the output when output is copied from the removable cartridge to the fixed disk.

copy-gpl:sloc=1117:dloc=1116

```
rlghncxa03w 09-01-07 00:57:31 EST EAGLE 40.1.0
COPY GPL: MASP B - COPY STARTS ON REMOVABLE DRIVE
;

rlghncxa03w 09-01-07 01:01:27 EST EAGLE 40.1.0
COPY GPL: MASP B - COPY TO STANDBY MASP COMPLETE
;
```

Example 2 displays the output when the GPL is copied from the fixed disk to the USB drive.

copy-gpl:sloc=1114:ddrv=usb

```
e5oam 09-01-09 05:14:23 MST EAGLE 40.1.0
COPY GPL: MASP A - COPY STARTS ON ACTIVE MASP
;

e5oam 09-01-09 05:22:30 MST EAGLE 40.1.0
COPY GPL: MASP A - COPY TO USB DRIVE COMPLETE
;
```

The following examples display output for the **rept-stat-gpl** command when the E5-OAM card set is used. Example 1 displays the output then the status of all GPLs is requested.

rept-stat-gpl

```
e5oam 09-01-07 22:02:22 EST EAGLE 40.1.0
GPL Auditing ON

  GPL          CARD          RUNNING          APPROVED          TRIAL
  OAMHC        1113          030-013-000      030-013-000      030-013-000 *
  OAMHC        1115          030-013-000      030-013-000      030-013-000 *
  IPS          1111          030-013-000      030-013-000      030-013-000

Command Completed.

;
```

Example 2 displays the output when the status for the **oamhc** GPL is requested.

rept-stat-gpl:gpl=oamhc

```
tekelecstp 09-01-06 13:24:56 EST EAGLE 40.1.0
GPL Auditing ON

  GPL          CARD          RUNNING          APPROVED          TRIAL
  OAMHC        1113          030-013-000      030-013-000      030-013-000
  OAMHC        1117          030-013-000      030-013-000      030-013-000

Command Completed.

;
```

Feature Notice

The following examples display output for the **rtrv-gpl** command when the E5-OAM card set is used.

Example 1 displays partial output for the **rtrv-gpl** command when all of the GPLs are requested.

rtrv-gpl

```
e5oam 08-12-01 12:24:57 EST EAGLE 40.1.0
GPL Auditing ON

GPL      CARD  RELEASE      APPROVED      TRIAL      REMOVE TRIAL
EOAM     1114  030-010-000  030-010-000  030-010-000  030-010-000
EOAM     1116  030-010-000  030-010-000  030-010-000  030-010-000
EOAM     1115  -----      -----      -----      030-010-000
SS7ANSI  1114  030-010-000  030-010-000  030-010-000  030-010-000
SS7ANSI  1116  030-010-000  030-010-000  030-010-000  030-010-000
SS7ANSI  1115  -----      -----      -----      030-010-000
SCCP     1114  030-010-000  030-010-000  030-010-000  030-010-000
SCCP     1116  030-010-000  030-010-000  030-010-000  030-010-000
SCCP     1115  -----      -----      -----      030-010-000
GLS      1114  030-010-000  030-010-000  030-010-000  030-010-000
GLS      1116  030-010-000  030-010-000  030-010-000  030-010-000
GLS      1115  -----      -----      -----      030-010-000
OAMHC    1114  030-010-000  030-010-000  030-010-008  -----
OAMHC    1116  030-010-000  030-010-000  030-010-008  030-010-008
OAMHC    1115  -----      -----      -----      030-010-008
IPSG     1114  030-010-000  030-010-000  030-010-000  030-010-000
IPSG     1116  030-010-000  030-010-000  030-010-000  030-010-000
IPSG     1115  -----      -----      -----      030-010-000
BLROM1   1114  030-010-000  030-010-000  030-010-000  030-010-000
BLROM1   1116  030-010-000  030-010-000  030-010-000  030-010-000
BLROM1   1115  -----      -----      -----      030-010-000
```

Example 2 displays output when information for the **oamhc** GPL is requested.

rtrv-gpl:gpl=oamhc

```
e5oam 08-12-01 12:25:26 EST EAGLE 40.1.0
GPL Auditing ON

GPL      CARD  RELEASE      APPROVED      TRIAL      REMOVE TRIAL
OAMHC    1114  030-010-000  030-010-000  030-010-008  -----
OAMHC    1116  030-010-000  030-010-000  030-010-008  030-010-008
OAMHC    1115  -----      -----      -----      030-010-008
```

;

- **act/init-flash**—Enhanced to support the **blmcap** flash GPL.
- **act-upgrade**—Enhanced to allow a USB drive to be used to upgrade the system.
- **chg/rtrv-clkopts**—Added to change the set of primary or secondary clocks without pulling the E5-MASP. The **rtrv-clkopts** command displays the clock option settings. The following example displays output for the **rtrv-clkopts** command

rtrv-clkopts

```
e5oam 08-12-01 17:26:51 EST EAGLE 40.1.0
CLK OPTIONS
-----

PRIMARY
-----
HSCLKSRC      rs422
HSCLKLL       longhaul

SECONDARY
-----
HSCLKSRC      rs422
HSCLKLL       shorthaul
```

;

- **chg/rept-stat-db**—Enhanced to allow backup and restore from movable drives. The following examples display output for the **rept-stat-db** command when E5-OAM cards are used. Example 1 displays the output when the status of the active database is requested.

rept-stat-db

```
e5oam 08-12-02 15:25:40 EST EAGLE 40.1.0
DATABASE STATUS: >> OK <<
      TDM 1114 ( STDBY)                TDM 1116 ( ACTV )
      C  LEVEL      TIME LAST BACKUP  C  LEVEL      TIME LAST BACKUP
-----
FD BKUP Y          36 08-11-19 09:38:25 EST Y          36 08-11-19 09:38:25 EST
FD CRNT Y           39                      Y           39
      MCAP 1113                          MCAP 1115
-----
RD BKUP Y          36 08-11-19 09:27:17 EST Y          36 08-11-19 09:27:17 EST
USB BKP -          -      -      -      Y           3 08-11-07 01:11:22 EST

;
```

Example 2 displays the output when the status of all databases is requested.

rept-stat-db:display=all

```
e5oam 08-12-02 15:26:27 EST EAGLE 40.1.0
DATABASE STATUS: >> OK <<
      TDM 1114 ( STDBY)                TDM 1116 ( ACTV )
      C  LEVEL      TIME LAST BACKUP  C  LEVEL      TIME LAST BACKUP
-----
FD BKUP Y          36 08-11-19 09:38:25 EST Y          36 08-11-19 09:38:25 EST
FD CRNT Y           39                      Y           39
      MCAP 1113                          MCAP 1115
-----
RD BKUP Y          36 08-11-19 09:27:17 EST Y          36 08-11-19 09:27:17 EST
USB BKP -          -      -      -      -          -          -          -

CARD/APPL  LOC  C  T  LEVEL      TIME LAST UPDATE  EXCEPTION
-----
MCP         1108 -  -  -          -          -          -
IPS         1111 Y  N  39          08-11-22 10:21:54  -
OAM-RMV     1113 Y  -  36          08-11-18 23:36:19  DIFF LEVEL
TDM-CRNT    1114 Y  N  39          08-11-22 10:21:54  -
TDM-BKUP    1114 Y  -  36          08-11-18 23:36:38  DIFF LEVEL
OAM-RMV     1115 Y  -  36          08-11-18 23:36:19  DIFF LEVEL
OAM-USB     1115 Y  -  3          08-11-07 01:11:22  DIFF LEVEL
TDM-CRNT    1116 Y  N  39          08-11-22 10:21:54  -
TDM-BKUP    1116 Y  -  36          08-11-18 23:36:38  DIFF LEVEL
```

- **chg/rtrv-secu-trm**—Enhanced to support the E5-OAM card set
- **chg/copy/disp/set-tbl**—Enhanced to support a USB drive.
- **copy/format/tst-disk**—Enhanced to support E5-OAM cards and a USB drive.
- **copy/dlt-fta**—Enhanced to allow copying to be performed from a removable disk.
- **copy-secu-log**—Enhanced to support the E5-OAM card set
- **disp-dsk-dir**—Enhanced to support a USB drive.
- **disp-disk-stats**—Enhanced to support the E5-OAM card set.
- **disp-fta-dir**—Enhanced to support the E5-OAM card set.
- **ent/alw/init/rept-stat/rtrv-card**—Enhanced to support the E5-OAM card set. The following example displays output for the **rept-stat-card** command when the E5-OAM card set is used.

rept-stat-card

```
e5oam 08-12-01 15:38:32 EST EAGLE 40.1.0
CARD  VERSION      TYPE      GPL      PST      SST      AST
```

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1108	-----	MCPM	MCP	OOS-MT-DSBLD	Manual	-----
1109	030-009-000	HIPR	HIPR	IS-NR	Active	-----
1110	030-009-000	HIPR	HIPR	IS-NR	Active	-----
1111	030-010-000	IPSM	IPS	IS-NR	Active	-----
1113	030-010-008	E5MCPAP	OAMHC	IS-NR	Standby	-----
1114	-----	E5TDM		IS-NR	Active	-----
1115	030-010-008	E5MCPAP	OAMHC	IS-NR	Active	-----
1116	-----	E5TDM		IS-NR	Active	-----
1117	-----	E5MDAL		OOS-MT	Isolated	-----

Command Completed.

;

- **pass**—Enhanced to support multiple processor types
- **rtrv-stp**—Enhanced to support the **oamhc** and **blmcap** GPLs.

Limitations

No limitations are associated with this feature.

EAGLE 5 ISS Fast Copy

The EAGLE Fast Copy (Fast Copy) feature uses a fast copy interface to the Integrated Message Feeder (IMF) to transport monitored SIGTRAN data while bypassing the Inter-Module Transport (IMT) and network stack. This ability allows data from the SIGTRAN network to be monitored in real time without impacting the EAGLE 5 ISS IMT bus, thereby eliminating EAGLE 5 ISS overhead.

The existing STC interface is used to transport configuration and link event data. Fast Copy architecture uses two separate networks for STC monitoring and Fast Copy monitoring.

The Fast Copy feature runs on E5-ENET cards that are running the **ipsg** application. The Fast Copy mode is a system-wide option. If the mode is set to fast copy, then all cards that are capable of supporting Fast Copy will switch to Fast Copy Monitoring.

NOTE: A card that can run the Fast Copy interface is referred to as an *FC-capable* card. After the Fast Copy feature is provisioned on an FC-capable card, the card is referred to as an *FC-enabled* card. Currently, E5-ENET cards running the ipsg application are the only supported FC-capable cards.

The E5-ENET physical interface supports two additional ports per card. These two additional ports are used as the Fast Copy interface. All Fast Copy operations are supported on both interfaces simultaneously.

Feature Control Requirements

The Fast Copy feature has the following feature control requirements.

- The E5IS feature bit must be turned on before the Fast Copy option or network parameters can be provisioned.
- The **chg-eisopts:eiscopy=on** command must be entered before the Fast Copy option can be provisioned.

Hardware Requirements

The Fast Copy feature has the following hardware requirements:

- FC-capable cards. Currently, the only supported FC-capable cards are E5-ENET cards running the **ipsg** application.
- The E5-ENET physical interface supports two additional ports per card via the same backplane connectors as the existing E5-ENET based IP links. Two new upper and lower port adapters (part numbers 830-1343-01 and 830-1343-02, respectively) are required to support the existing SSEDCEM cables and the new port connection for the “Fast Copy” port.

Commands

The following commands are added or enhanced to support the Fast Copy feature. For complete descriptions of these commands, refer to the *Commands Manual* for the EAGLE 5 ISS Release 40.1 documentation set.

- **chg/rtrv-eisopts**—Enhanced to enable and disable the Fast Copy functions. The following example displays output for the **rtrv-eisopts** command when the Fast Copy mode is provisioned.

rtrv-eisopts

```
rlghncxa03w 08-12-11 10:07:58 EST EAGLE 40.1.0
rtrv-eisopts
EIS OPTIONS
-----
EISCOPY = ON
FCMODE = FCOPY
;
```

- **chg/rtrv-netopts**—Enhanced to support the Fast Copy networks. The following example displays output for the **rtrv-netopts** command when the Fast Copy networks are provisioned.

rtrv-netopts

```
rlghncxa03w 08-12-11 16:35:57 IST EAGLE 40.1.0
rtrv-netopts
NETWORK OPTIONS
-----
PVN          = 170.120.50.1
PVNMASK      = 255.255.252.0
FCNA         = 170.120.50.0
FCNAMASK     = 255.255.254.0
FCNB         = 170.121.50.0
FCNBMASK     = 255.255.254.0
;
```

NOTE: The FCNAMASK and FCNBMASK variables are not provisionable. They are supported by the rtrv-netopts command only.

- **ent/rept-stat-card**—Enhanced to support Fast Copy IP ports. The following example displays output for the **rept-stat-card** command when Fast Copy is provisioned on the card.

rept-stat-card:loc=1105:mode=full

```
stp9021503 08-12-11 05:14:58 EST EAGLE5 40.1.0
CARD  VERSION  TYPE  GPL  PST  SST  AST
1105  055-016-012 E5ENET IPSP  IS-NR Active -----
ALARM STATUS      = * 0581 Loss of Heartbeat
IMTPCI  GPL version = 131-007-000
BLVXW6  GPL version = 055-016-007
BLDIAG6 GPL version = 055-016-006
BLBEPM  GPL version = 055-016-006
BLCPLD  GPL version = 055-016-006
IMT BUS A          = Conn
IMT BUS B          = Conn
CLOCK A           = Active
CLOCK B           = Idle
CLOCK I           = Idle
MBD BIP STATUS    = Valid
```

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```

MOTHER BOARD ID      = EPM A
DBD STATUS           = Valid
DBD TYPE             = 1G ENET
DBD MEMORY SIZE      = 512M
HW VERIFICATION CODE = ----
CURRENT TEMPERATURE  = 56C (133F)
PEAK TEMPERATURE:    = 58C (137F)      [03-12-22 18:06]
SIGNALING LINK STATUS
  SLK   PST           LS           CLLI           E5IS
  A     OOS-MT-DSBLD  1s333          -----      INACTIVE
  A1    OOS-MT-DSBLD  1s555          -----      INACTIVE
IPLNK STATUS
  IPLNK IPADDR        STATUS      PST
  A     192.168.63.165 UP         IS-NR
  B     192.168.163.141 DOWN       OOS-MT
FCLNK STATUS
  A1    172.21.48.245  UP         IS-NR
  B1    172.22.48.245  UP         IS-NR
FASTCOPY STATUS: ONLINE
ASSOCIATION STATUS
  ANAME           PST           SST
  assoc1          OOS-MT-DSBLD  OOS
  assoc5          OOS-MT-DSBLD  OOS
TVG STATUS
  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: G-----, 5 min: G-----
  INM   TVG RESULT   = 24 hr: -----, 5 min: -----

```

Command Completed.

- **rept-stat-mon**—Added to display the status of the Fast Copy and EROUTE subsystems. This command replaces the **rept-stat-eroute** command. The following examples display output for the **rept-stat-mon** command.

Example 1 displays the output when all card and system level information is requested.

rept-stat-mon

```

rlghncxa03w 08-12-11 16:35:57 IST EAGLE 40.1.0
EROUTE SUBSYSTEM REPORT IS-NR      Active      -----
STC Cards Configured= 4  Cards IS-NR= 2
EISCOPY BIT = ON
System Threshold = 80% Total Capacity
System Peak EROUTE Load:           12991 Buffers/Sec
System Total EROUTE Capacity:       21000 Buffers/Sec

SYSTEM ALARM STATUS = No Alarms.

CARD  VERSION      PST           SST           AST           TVG           CPU
                USAGE  USAGE
-----
1101  052-008-000  IS-NR         Active        -----      63%      28%
1103  052-008-001  IS-NR         Active        -----      55%      28%
1105  255-255-255  OOS-MT        Isolated     -----      0%       0%
1205  255-255-255  OOS-MT        Isolated     -----      0%       0%
-----
EROUTE Service Average TVG Capacity = 59% Average CPU Capacity = 28%

CARDS DENIED EROUTE SERVICE: 1104, 1112, 1303, 1311

=====

FAST COPY SUBSYSTEM REPORT IS-NR      Active      -----
FC Cards Configured= 3  Cards IS-NR= 3
FC MODE = FCOPY
SYSTEM ALARM STATUS = No Alarms.

CARD  PST           SST           CPU           CARD FCS
                USAGE  USAGE  STATUS
-----

```

```
-----
1201 IS-NR      Active      34%      ALLOWED
1202 IS-NR      Active      55%      ALLOWED
1203 IS-NR      Active      10%      ALLOWED
-----
```

Command Completed.

Example 2 displays the output when card and system information for the EROUTE subsystem is requested.

rept-stat-mon:type=eroute

```
rlghncxa03w 08-12-11 16:35:57 IST  EAGLE 40.1.0
EROUTE SUBSYSTEM REPORT IS-NR      Active      -----
STC Cards Configured= 4  Cards IS-NR= 2
EISCOPY BIT = ON
System Threshold = 80% Total Capacity
System Peak EROUTE Load:          7080 Buffers/Sec
System Total EROUTE Capacity:     12000 Buffers/Sec
```

SYSTEM ALARM STATUS = No Alarms.

CARD	VERSION	PST	SST	AST	TVG USAGE	CPU USAGE
1101	052-008-000	IS-NR	Active	-----	63%	28%
1103	052-008-001	IS-NR	Active	-----	55%	28%
1203	255-255-255	OOS-MT	Isolated	-----	0%	0%
1205	255-255-255	OOS-MT	Isolated	-----	0%	0%

EROUTE Service Average TVG Capacity = 59% Average CPU Capacity = 28%

CARDS DENIED EROUTE SERVICE:

Command Completed.

Example 3 displays the output when card and system information for the Fast Copy subsystem is requested.

rept-stat-mon:type=fcs

```
rlghncxa03w 08-12-11 16:35:57 IST  EAGLE 40.1.0
FAST COPY SUBSYSTEM REPORT IS-NR      Active      -----
FC Cards Configured= 3  Cards IS-NR= 3
FC MODE = FCOPY
SYSTEM ALARM STATUS = No Alarms.
```

CARD	PST	SST	CPU USAGE	CARD FCS STATUS
1201	IS-NR	Active	34%	ALLOWED
1202	IS-NR	Active	55%	ALLOWED
1203	IS-NR	Active	10%	ALLOWED

Command Completed.

Example 4 displays the output when EROUTE subsystem information is requested for a specific card.

rept-stat-mon:type=eroute:loc=1101

```
rlghncxa03w 08-12-11 16:35:57 IST  EAGLE 40.1.0
CARD  VERSION  TYPE  PST  SST  AST
1101  052-008-000  STC  IS-NR  Active  -----
CARD ALARM STATUS = No Alarms.
TOTAL CPU USAGE = 28%
NTP broadcast = VALID
STC IP PORT A:          IS-NR      Active      -----
ALARM STATUS = No Alarms.
STC IP PORT B:          OOS-MT      Unavail     -----
ALARM STATUS = ** 0084 IP Connection Unavailable
ERROR STATUS = DHCP Lease. Physical Link.
```

Feature Notice

Command Completed.
;

Example 5 displays the output when Fast Copy subsystem information is requested for a specific card.

rept-stat-mon:type=fcs:loc=1104

```
rlghncxa03w 08-12-11 16:35:57 IST EAGLE 40.1.0
CARD PST          SST          CPU          CARD FCS
                USAGE          STATUS
1203 IS-NR        Active          10%         ALLOWED
ALARM STATUS = No Alarms.

FCS IP PORT A1:   IS-NR        Active      -----
ALARM STATUS = No Alarms.
FCS IP PORT B1:   IS-NR        Active      -----
ALARM STATUS = No Alarms.

IMF CONNECTION STATUS TABLE
-----
IPADDRESS          ALARM  ASSOCIATION  PACKET  SERVICE MODE
                   ID      NAME          COUNT
-----
172.021.48.15     (A) 582    sg1203a21    100     Copy Rx MSUs
172.022.48.15     (B) 582    sg1203a22    200     Copy Tx MSUs

PORT ALARM STATUS
-----
PORT ID ALARM ID  REASON
-----
A         583      Mismatched Fast Copy Network Addresses

Command Completed.
```

Example 6 displays the output when **mode=perf** is specified.

rept-stat-mon:type=eroute:mode=perf

```
rlghncxa03w 08-12-11 16:35:57 IST EAGLE 40.1.0
EROUTE SUBSYSTEM REPORT IS-ANR          Ovrlw=1      -----
STC Cards Configured= 2  Cards IS-NR= 2
EISCOPY BIT = ON
System Threshold = 80% Total Capacity
System Peak EROUTE Load:          12200 Buffers/Sec
System Total EROUTE Capacity:      12000 Buffers/Sec

SYSTEM ALARM STATUS = * 0482 Card(s) have been denied EROUTE service

STATISTICS
=====
CARD    CPU USAGE  TVG RATE
-----
1104    55%        6200
1112    50%        6000
-----
AVERAGE TVG Capacity = 80%
AVERAGE CPU USAGE = 27%
TOTAL TVG RATE = 12200

CARDS DENIED EROUTE SERVICE: 1302, 1305

Command Completed.
```

Example 7 displays the output when Fast Copy information is requested and the Fast Copy mode is turned off.

rept-stat-mon:type=fcs

```
rlghncxa03w 08-12-11 16:35:57 IST EAGLE 40.1.0
FAST COPY SUBSYSTEM REPORT OOS-MA      Ueq          -----
FC Cards Configured= 2  Cards IS-NR= 2
FC MODE = OFF
```

SYSTEM ALARM STATUS = No Alarms.

CARD	PST	SST	CPU USAGE	CARD FCS STATUS
1105	IS-NR	Active	10%	OFFLINE
1106	IS-NR	Active	15%	OFFLINE

Command Completed.

- **rept-stat-sys**—Enhanced to display Fast Copy alarms. The following example displays output for the **rept-stat-sys** command when Fast Copy alarms are included.

rept-stat-sys

```
tekelecstp 08-12-11 10:31:06 EST EAGLE 40.1.0
MAINTENANCE STATUS REPORT
Maintenance Baseline established.
Routing Baseline established.
SCCP Baseline established.
ALARMS:      CRIT=    2    MAJR=    2    MINR=    0    INH=    0
OAM 1113     IS-NR      Active                    INH=    0
OAM 1115     IS-NR      Standby                   INH=    0
LIM  CARD   IS-NR=    0    Other=    0                INH=    0
X25  CARD   IS-NR=    0    Other=    0                INH=    0
SCCP  CARD   IS-NR=    0    Other=    0                INH=    0
GLS   CARD   IS-NR=    0    Other=    0                INH=    0
SLAN  CARD   IS-NR=    0    Other=    0                INH=    0
SS7IPGW CARD   IS-NR=    0    Other=    0                INH=    0
IPGWI  CARD   IS-NR=    0    Other=    0                INH=    0
IPLIM  CARD   IS-NR=    0    Other=    0                INH=    0
IPLIMI  CARD   IS-NR=    0    Other=    0                INH=    0
IPSG   CARD   IS-NR=    2    Other=    0                INH=    0
HMUX   CARD   IS-NR=    0    Other=    0                INH=    0
HIPR   CARD   IS-NR=    2    Other=    0                INH=    0
MCPM   CARD   IS-NR=    0    Other=    0                INH=    0
EROUTE  CARD   IS-NR=    2    Other=    0                INH=    0
CLOCK   IS-NR=    1    Other=    0                INH=    0
HS CLOCK  IS-NR=    1    Other=    0                INH=    0
IMT     IS-NR=    2    Other=    0                INH=    0
SLK     IS-NR=    2    Other=    1                INH=    0
DLK     IS-NR=    0    Other=    0                INH=    0
LINK SET  IS-NR=    2    Other=    2                INH=    0
DSM IP LK  IS-NR=    0    Other=    0                INH=    0
MCPM IP LK  IS-NR=    0    Other=    0                INH=    0
STC IP LK  IS-NR=    2    Other=    2                INH=    0
ENET IP LK  IS-NR=    1    Other=    1                INH=    0
APPLSOCK  IS-NR=    0    Other=    0                INH=    0
SCTP ASSOC IS-NR=    2    Other=    1                INH=    0
APPL SERVER IS-NR=    0    Other=    0                INH=    0
SS7 DPC   IS-NR=    2    Other=    2                INH=    0
X25 DPC   IS-NR=    0    Other=    0                INH=    0
CLUST DPC  IS-NR=    0    Other=    0                INH=    0
RTX      IS-NR=    0    Other=    0                INH=    0
XLIST DPC  IS-NR=    0    Other=    0                INH=    0
DPC SS    Actv =    0    Other=    0                INH=    0
SEAS SS   IS-NR=    0    Other=    0                INH=    0
SEAS X25  IS-NR=    0    Other=    0                INH=    0
LSMS SS   IS-NR=    0    Other=    0                INH=    0
LSMS Conn IS-NR=    0    Other=    0                INH=    0
TERMINAL  IS-NR=    1    Other=    15               INH=    0
MPS      IS-NR=    0    Other=    0                INH=    0
E1PORT   IS-NR=    0    Other=    0                INH=    0
T1PORT   IS-NR=    0    Other=    0                INH=    0
RTD SS   IS-NR=    1    Other=    0                INH=    0
RSN      IS-NR=    0    Other=    0                INH=    0
FCS      IS-NR=    1    Other=    0                INH=    0
```

Feature Notice

- **rept-stat-trbl**—Enhanced to display Fast Copy device trouble notifications. The following example displays output for the **rept-stat-trbl** command when Fast Copy devices are included.

rept-stat-trbl

```
tekelecstp 08-12-11 10:31:06 EST EAGLE 40.1.0
SEQN UAM AL DEVICE ELEMENT TROUBLE TEXT
0002.0143 * CARD 1113 EOAM System release GPL(s) not approved
3661.0048 * TERMINAL 1 Terminal failed
3674.0155 * DLK 1107,A STPLAN STPLAN connection unavailable
3677.0312 * DPC 001-115-001 DPC is restricted
3678.0002 * GPL SYSTEM BPDCM Card is not running approved GPL
3683.0176 * SECULOG 1116 Stdby security log -- upload
3690.0557 * RSN RSF RSN is restricted
3684.0013 ** CARD 1305 SS7IPGW Card is isolated from the system
3688.0236 ** SLK 1203,A lslg2 REPT-LKF: not aligned
3692.0318 ** LSN e5e6 REPT-LKSTO: link set prohibited
1088.0539 * DLK 1106,A1 Ethernet Interface Down
1089.0579 * CARD 1106 FC Network Unavailable
1090.0576 ** FCS ALL FC Network Unavailable
3700.0536 * IP7 assoc1234567890 IP Connection Excess Retransmits
0915.0541 *C RTD SYSTEM MSU cksum error threshold exceeded
3698.0539 ** ENET 1305,B Ethernet Interface Down
3699.0539 ** ENET 1307,B Ethernet Interface Down
3700.0536 * IP7 assoc1234567890 IP Connection Excess Retransmits
0915.0541 *C RTD SYSTEM MSU cksum error threshold exceeded
Command Completed.
```

;

Limitations

When the Fast Copy option is enabled, all of the monitored connections that are hosted on FC-enabled cards are brought down in order to re-establish the session to perform Fast Copy.

GTT Loadsharing between ITU Network Types

The GTT Loadsharing between ITU Network Types feature allows GTT loadsharing to occur between ITU-National (ITU-N), ITU-N spare, ITU-International (ITU-I), and ITU-I spare point codes within the same MAP or MRN set.

This feature also allows different alias combinations to be provisioned, such as an ITU-N spare alias for an ITU-N destination point code. The feature supports the current maximum of two alias point codes per destination point code.

The feature adds support for provisioning additional alias combinations for ITU-I, ITU-N, ITU-I spare, and ITU-N spare true point codes and their spare types, including:

- ITU-N spare alias for ITU-N true point code
- ITU-N alias for ITU-N spare true point code
- ITU-I spare alias for ITU-I true point code
- ITU-I alias for ITU-I spare true point code
- the ability to provision an ITU-I and an ITU-I spare alias for an ITU-N/ITU-N spare point code
- the ability to provision an ITU-N and an ITU-N spare alias for an ITU-I/ITU-I spare point code.

These new alias combinations allow MTP-routed and GT-routed messages to cross spare-non spare network boundaries. SCCP conversion of CgPA point code, conversion of concerned point code (network management messages) and affected point code (SCMG messages) are also supported for the new alias combinations.

Feature Control Requirements

There are no feature control requirements identified for this feature.

Hardware Requirements

None.

Commands

The following commands are enhanced to support the GTT Loadsharing between ITU Network Types feature. For complete descriptions of these commands, refer to the *Commands Manual* for the EAGLE 5 ISS Release 40.1 documentation set.

- **ent/chg/rtrv-dstn**—Enhanced to support additional ITU destination point code and alias point code combinations. The following examples display output for the **rtrv-dstn** command. Example 1 displays the output when all destinations are requested.

rtrv-dstn

eagle10115 08-12-09 10:00:37 EST EAGLE 40.1.0

DPCA	CLLI	BEI	ELEI	ALIASI	ALIASN/N24	DMN
001-001-000	stp1	no	---	-----	-----	SS7
003-001-000	mstp	no	---	-----	-----	SS7
004-001-000	stp4	no	---	-----	-----	SS7
007-001-000	stp7	no	---	-----	-----	SS7
002-101-001	ssp201	no	---	-----	-----	SS7
002-102-001	ssp202	no	---	-----	-----	SS7
001-101-001	ssp101	no	---	-----	-----	SS7
003-101-001	ssp301	no	---	-----	-----	SS7
004-101-001	ssp401	no	---	-----	-----	SS7
007-101-001	ssp701	no	---	-----	-----	SS7
100-100-*	cluster1	no	no	-----	-----	SS7
100-100-001	-----	no	---	-----	-----	SS7
200-200-*	cluster2	yes	no	-----	-----	SS7
005-006-001	-----	no	---	-----	005-006-001	SS7
001-001-001	dstn01	no	---	-----	-----	SS7
p-001-001-001	dstn01p	no	---	-----	-----	SS7
001-001-002	dstn02	no	---	1-001-2	-----	SS7
p-001-001-002	dstn02p	no	---	1-011-2	-----	SS7
001-001-003	dstn03	no	---	s-1-001-3	-----	SS7
p-001-001-003	dstn03p	no	---	s-1-011-3	-----	SS7
001-001-004	dstn04	no	---	-----	02060	SS7
p-001-001-004	dstn04p	no	---	-----	01060	SS7
001-070-001	tgtansi001	no	---	-----	-----	SS7
001-001-005	dstn05	no	---	-----	s-02061	SS7
p-001-001-005	dstn05p	no	---	-----	s-01061	SS7
001-001-006	dstn06	no	---	-----	001-001-006	SS7
p-001-001-006	dstn06p	no	---	-----	001-011-006	SS7
001-001-007	dstn07	no	---	1-001-7	02063	SS7
p-001-001-007	dstn07p	no	---	1-011-7	01063	SS7
001-002-000	dstn08	no	---	1-002-0	s-02064	SS7
p-001-002-000	dstn08p	no	---	1-012-0	s-01064	SS7
001-070-002	tgtansi002	no	---	-----	-----	SS7
001-002-001	dstn09	no	---	s-1-002-1	02065	SS7
p-001-002-001	dstn09p	no	---	s-1-012-1	01065	SS7
001-002-002	dstn10	no	---	s-1-002-2	s-02066	SS7
p-001-002-002	dstn10p	no	---	s-1-012-2	s-01066	SS7
001-002-003	dstn11	no	---	1-002-3	001-002-003	SS7
p-001-002-003	dstn11p	no	---	1-012-3	001-012-003	SS7
001-002-004	dstn12	no	---	s-1-002-4	001-002-004	SS7
p-001-002-004	dstn12p	no	---	s-1-012-4	001-012-004	SS7
001-070-003	tgtansi003	no	---	-----	-----	SS7
200-002-001	rtxroute001	no	---	-----	-----	SS7

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001-015-001	gx25dstn001	no	---	s-1-015-1	02169	SS7	
001-015-002	gx25dstn002	no	---	1-015-2	-----	SS7	
001-015-003	gx25dstn003	no	---	-----	s-02171	SS7	
002-015-001	gx25dstn004	yes	---	-----	-----	X25	
002-015-002	gx25dstn005	yes	---	-----	-----	X25	
002-015-003	gx25dstn006	yes	---	-----	-----	X25	
002-015-004	gx25dstn007	yes	---	-----	-----	X25	
040-001-*	myncaibeno	no	no	-----	-----	SS7	
040-010-*	myncaibeno2	no	no	-----	-----	SS7	
	DPCI	CLLI	BEI	ELEI	ALIASA	ALIASN/N24	DMN
s-4-002-0	-----	no	---	010-001-001	s-08228	SS7	
2-010-0	dstn13	no	---	-----	-----	SS7	
p-2-010-0	dstn13p	no	---	-----	-----	SS7	
2-010-1	dstn14	no	---	002-010-001	-----	SS7	
p-2-010-1	dstn14p	no	---	002-100-001	-----	SS7	
2-010-2	dstn15	no	---	-----	04178	SS7	
p-2-010-2	dstn15p	no	---	-----	08178	SS7	
2-010-3	dstn16	no	---	-----	s-04179	SS7	
p-2-010-3	dstn16p	no	---	-----	s-08179	SS7	
2-070-1	tgtitui001	no	---	-----	-----	SS7	
2-010-4	dstn17	no	---	-----	002-010-004	SS7	
p-2-010-4	dstn17p	no	---	-----	002-100-004	SS7	
2-010-5	dstn18	no	---	002-010-005	04181	SS7	
p-2-010-5	dstn18p	no	---	002-100-005	08181	SS7	
2-010-6	dstn19	no	---	002-010-006	s-04182	SS7	
p-2-010-6	dstn19p	no	---	002-100-006	s-08182	SS7	
2-010-7	dstn20	no	---	002-010-007	002-010-007	SS7	
p-2-010-7	dstn20p	no	---	002-100-007	002-100-007	SS7	
2-070-2	tgtitui002	no	---	-----	-----	SS7	
s-2-020-0	dstn21	no	---	-----	-----	SS7	
ps-2-020-0	dstn21p	no	---	-----	-----	SS7	
s-2-020-1	dstn22	no	---	002-020-001	-----	SS7	
ps-2-020-1	dstn22p	no	---	002-200-001	-----	SS7	
s-2-020-2	dstn23	no	---	-----	04258	SS7	
ps-2-020-2	dstn23p	no	---	-----	08258	SS7	
s-2-020-3	dstn24	no	---	-----	s-04259	SS7	
ps-2-020-3	dstn24p	no	---	-----	s-08259	SS7	
s-2-070-3	tgtitui003	no	---	-----	-----	SS7	
s-2-020-4	dstn25	no	---	-----	002-020-004	SS7	
ps-2-020-4	dstn25p	no	---	-----	002-200-004	SS7	
s-2-020-5	dstn26	no	---	002-020-005	04261	SS7	
ps-2-020-5	dstn26p	no	---	-----	-----	SS7	
s-2-020-6	dstn27	no	---	002-020-006	s-04262	SS7	
ps-2-020-6	dstn27p	no	---	002-200-005	08261	SS7	
s-2-020-7	dstn28	no	---	002-020-007	002-020-007	SS7	
ps-2-020-7	dstn28p	no	---	002-200-007	002-200-007	SS7	
s-2-070-4	tgtitui004	no	---	-----	-----	SS7	
s-3-070-3	tgtitui007	no	---	-----	-----	SS7	
s-3-070-4	tgtitui008	no	---	-----	-----	SS7	
s-2-029-6	rtxroute002	no	---	002-029-006	s-04269	SS7	
	DPCI	CLLI	BEI	ELEI	ALIASA	ALIASN/N24	DMN
3-030-0	dstn29	no	---	s-3-030-0	-----	SS7	
p-3-030-0	dstn29p	no	---	s-3-031-0	-----	SS7	
3-030-1	dstn30	no	---	s-3-030-1	06385	SS7	
p-3-030-1	dstn30p	no	---	s-3-031-1	07385	SS7	
3-030-2	dstn31	no	---	s-3-030-2	s-06386	SS7	
p-3-030-2	dstn31p	no	---	s-3-031-2	s-07386	SS7	
3-070-1	tgtitui005	no	---	s-3-070-1	-----	SS7	
3-030-3	dstn32	no	---	s-3-030-3	003-030-003	SS7	
p-3-030-3	dstn32p	no	---	s-3-031-3	003-031-003	SS7	
3-070-2	tgtitui006	no	---	s-3-070-2	-----	SS7	
s-3-040-2	dstn35	no	---	3-040-2	-----	SS7	
ps-3-040-2	dstn35p	no	---	3-041-2	-----	SS7	
s-3-040-3	dstn36	no	---	3-040-3	06467	SS7	
ps-3-040-3	dstn36p	no	---	3-041-3	07467	SS7	
s-3-040-4	dstn37	no	---	3-040-4	s-06468	SS7	
ps-3-040-4	dstn37p	no	---	3-041-4	s-07468	SS7	
s-3-040-5	dstn38	no	---	3-040-5	003-040-005	SS7	
ps-3-040-5	dstn38p	no	---	3-041-5	003-041-005	SS7	

Feature Notice

DPCI	CLLI	BEI	ELEI	ALIASN	ALIASN	DMN
3-030-4	dstn33	no	---	s-06388	06388	SS7
p-3-030-4	dstn33p	no	---	s-07388	07388	SS7
3-030-5	dstn34	no	---	06389	s-06389	SS7
p-3-030-5	dstn34p	no	---	07389	s-07389	SS7
s-3-040-6	dstn39	no	---	s-06471	06471	SS7
ps-3-040-6	dstn39p	no	---	s-07471	07471	SS7
s-3-040-7	dstn40	no	---	06472	s-06472	SS7
ps-3-040-7	dstn40p	no	---	07472	s-07472	SS7

DPCN	CLLI	BEI	ELEI	ALIASA	ALIASI	DMN
06157	-----	no	---	020-005-002	-----	SS7
08192	dstn41	no	---	-----	-----	SS7
p-08192	dstn41p	no	---	-----	-----	SS7
08193	dstn42	no	---	004-000-001	-----	SS7
p-08193	dstn42p	no	---	004-200-001	-----	SS7
08194	dstn43	no	---	-----	4-000-2	SS7
p-08194	dstn43p	no	---	-----	4-040-2	SS7
08195	dstn44	no	---	-----	s-4-000-3	SS7
p-08195	dstn44p	no	---	-----	s-4-040-3	SS7
08753	tgtitun001	no	---	-----	-----	SS7
08196	dstn45	no	---	004-000-004	4-000-4	SS7
p-08196	dstn45p	no	---	004-200-004	4-040-4	SS7
08197	dstn46	no	---	004-000-005	s-4-000-5	SS7
p-08197	dstn46p	no	---	004-200-005	s-4-040-5	SS7
08754	tgtitun002	no	---	-----	-----	SS7
s-08272	dstn49	no	---	-----	-----	SS7
ps-08272	dstn49p	no	---	-----	-----	SS7
s-08273	dstn50	no	---	004-010-001	-----	SS7
ps-08273	dstn50p	no	---	004-200-010	-----	SS7
s-08274	dstn51	no	---	-----	4-010-2	SS7
ps-08274	dstn51p	no	---	-----	4-050-2	SS7
s-08275	dstn52	no	---	-----	s-4-010-3	SS7
ps-08275	dstn52p	no	---	-----	s-4-050-3	SS7
s-08755	tgtitun003	no	---	-----	-----	SS7
s-08276	dstn53	no	---	004-010-004	4-010-4	SS7
ps-08276	dstn53p	no	---	004-200-040	4-050-4	SS7
s-08277	dstn54	no	---	004-010-005	s-4-010-5	SS7
ps-08277	dstn54p	no	---	004-200-050	s-4-050-5	SS7
s-08756	tgtitun004	no	---	-----	-----	SS7
08757	tgtitun005	no	---	-----	-----	SS7
s-08758	tgtitun006	no	---	-----	-----	SS7

DPCN	CLLI	BEI	ELEI	ALIASI	ALIASI	DMN
08198	dstn47	no	---	s-4-000-6	4-000-6	SS7
p-08198	dstn47p	no	---	s-4-040-6	4-040-6	SS7
08199	dstn48	no	---	4-000-7	s-4-000-7	SS7
p-08199	dstn48p	no	---	4-040-7	s-4-040-7	SS7
s-08278	dstn55	no	---	s-4-010-6	4-010-6	SS7
ps-08278	dstn55p	no	---	s-4-050-6	4-050-6	SS7
s-08279	dstn56	no	---	4-010-7	s-4-010-7	SS7
ps-08279	dstn56p	no	---	4-050-7	s-4-050-7	SS7
s-08379	rtxroute003	no	---	s-4-058-7	4-058-7	SS7

DPCN	CLLI	BEI	ELEI	ALIASN	ALIASI	DMN
12688	dstn57	no	---	s-12688	-----	SS7
p-12688	dstn57p	no	---	s-13688	-----	SS7
12689	dstn58	no	---	s-12689	6-050-1	SS7
p-12689	dstn58p	no	---	s-13689	6-060-1	SS7
12690	dstn59	no	---	s-12690	s-6-050-2	SS7
p-12690	dstn59p	no	---	s-13690	s-6-060-2	SS7
s-12691	dstn60	no	---	12691	-----	SS7
ps-12691	dstn60p	no	---	13691	-----	SS7
s-12692	dstn61	no	---	12692	6-050-4	SS7
ps-12692	dstn61p	no	---	13692	6-060-4	SS7
s-12693	dstn62	no	---	12693	s-6-050-5	SS7
ps-12693	dstn62p	no	---	13693	s-6-060-5	SS7

DPCN24	CLLI	BEI	ELEI	ALIASA	ALIASI	DMN
003-003-004	-----	no	---	003-003-003	3-003-4	SS7
006-005-001	dstn63	no	---	-----	-----	SS7
p-006-005-001	dstn63p	no	---	-----	-----	SS7

Feature Notice

```

006-005-002 dstn64 no --- 006-005-002 ----- SS7
p-006-005-002 dstn64p no --- 006-005-020 ----- SS7
006-005-003 dstn65 no --- ----- 6-005-3 SS7
p-006-005-003 dstn65p no --- ----- 6-050-3 SS7
006-070-001 tgtitun24a no --- ----- SS7
006-005-004 dstn66 no --- ----- s-6-005-4 SS7
p-006-005-004 dstn66p no --- ----- s-6-050-4 SS7
006-005-005 dstn67 no --- 006-005-005 6-005-5 SS7
p-006-005-005 dstn67p no --- 006-005-050 6-050-5 SS7
006-070-002 tgtitun24b no --- ----- SS7

```

```

DESTINATION ENTRIES ALLOCATED: 2000
FULL DPC(s): 178
EXCEPTION DPC(s): 17
NETWORK DPC(s): 0
CLUSTER DPC(s): 4
TOTAL DPC(s): 199
CAPACITY (% FULL): 10%
ALIASES ALLOCATED: 12000
ALIASES USED: 206
CAPACITY (% FULL): 2%
X-LIST ENTRIES ALLOCATED: 500

```

;

Example 2 displays the output when information for a specific point code is requested.

rtrv-dstn:dpci=ps3-40-3

```

eagle10115 08-12-09 10:00:37 EST EAGLE 40.1.0

DPCI          CLLI          BEI  ELEI  ALIASI          ALIASN/N24  DMN
ps-3-040-3    dstn36p      no   ---   3-041-3        07467-aa    SS7

SPCI          NCAI
-----      ----

```

```

Destination table is (208 of 2000) 10% full
Alias table is (216 of 12000) 2% full

```

;

- **ent/chg/rtrv-rte**—Enhanced to allow up to 2 ITU alias point codes to be specified per destination point code. The following example displays output for the **rtrv-rte** command when mixed domains are used.

rtrv-rte

```

eagle10115 08-12-09 10:00:37 EST EAGLE 40.1.0

DPCA          ALIASI          ALIASN/N24  RTX  CLLI
              LSN              RC  APCA
001-001-000  -----          -----  No   stp1
              e2e1              10   001-001-000
003-001-000  -----          -----  No   mstp
              e2e3              10   003-001-000
004-001-000  -----          -----  No   stp4
              e2e4              10   004-001-000
007-001-000  -----          -----  No   stp7
              e2e7              10   007-001-000
002-101-001  -----          -----  No   ssp201
              e2m1s1          10   002-101-001
              e2e3              20   003-001-000
002-102-001  -----          -----  No   ssp202
              e2m1s2          10   002-102-001
              e2e3              20   003-001-000
001-101-001  -----          -----  No   ssp101
              e2e1              10   001-001-000
              e2e4              20   004-001-000
              e2e3              30   003-001-000
003-101-001  -----          -----  No   ssp301
              e2m1s3          10   003-101-001
              e2e3              20   003-001-000

```

Feature Notice

004-101-001	-----	-----	No	ssp401
		e2e4	10	004-001-000
		e2e1	20	001-001-000
007-101-001	-----	-----	No	ssp701
		e2e7	10	007-001-000
100-100-*	-----	-----	No	cluster1
		e2e1	10	001-001-000
		e2e3	20	003-001-000
100-100-001	-----	-----	No	-----
		e2e1	10	001-001-000
200-200-*	-----	-----	No	cluster2
005-006-001	-----	005-006-001	No	-----
001-001-001	-----	-----	No	dstn01
		lsn01	10	001-001-001
p-001-001-001	-----	-----	No	dstn01p
001-001-002	1-001-2	-----	No	dstn02
		lsn02	10	001-001-002
p-001-001-002	1-011-2	-----	No	dstn02p
001-001-003	s-1-001-3	-----	No	dstn03
		lsn03	10	001-001-003
p-001-001-003	s-1-011-3	-----	No	dstn03p
001-001-004	-----	02060-aa	No	dstn04
		lsn04	10	001-001-004
p-001-001-004	-----	01060-aa	No	dstn04p
001-070-001	-----	-----	No	tgtansi001
		lsn01	10	001-001-001
		lsn02	20	001-001-002
		lsn03	30	001-001-003
		lsn04	40	001-001-004
001-001-005	-----	s-02061-aa	No	dstn05
		lsn05	10	001-001-005
p-001-001-005	-----	s-01061-aa	No	dstn05p
001-001-006	-----	001-001-006	No	dstn06
		lsn06	10	001-001-006
p-001-001-006	-----	001-011-006	No	dstn06p
001-001-007	1-001-7	02063-aa	No	dstn07
		lsn07	10	001-001-007
p-001-001-007	1-011-7	01063-aa	No	dstn07p
001-002-000	1-002-0	s-02064-aa	No	dstn08
		lsn08	10	001-002-000
p-001-002-000	1-012-0	s-01064-aa	No	dstn08p
001-070-002	-----	-----	No	tgtansi002
		lsn05	10	001-001-005
		lsn06	20	001-001-006
		lsn07	30	001-001-007
		lsn08	40	001-002-000
001-002-001	s-1-002-1	02065-aa	No	dstn09
		lsn09	10	001-002-001
p-001-002-001	s-1-012-1	01065-aa	No	dstn09p
001-002-002	s-1-002-2	s-02066-aa	No	dstn10
		lsn10	10	001-002-002
p-001-002-002	s-1-012-2	s-01066-aa	No	dstn10p
001-002-003	1-002-3	001-002-003	No	dstn11
		lsn11	10	001-002-003
p-001-002-003	1-012-3	001-012-003	No	dstn11p
001-002-004	s-1-002-4	001-002-004	No	dstn12
		lsn12	10	001-002-004
p-001-002-004	s-1-012-4	001-012-004	No	dstn12p
001-070-003	-----	-----	No	tgtansi003
		lsn09	10	001-002-001
		lsn10	20	001-002-002
		lsn11	30	001-002-003
		lsn12	40	001-002-004
200-002-001	-----	-----	Yes	rtxroute001
		lsn12	10	001-002-004
001-015-001	s-1-015-1	02169-aa	No	gx25dstn001
001-015-002	1-015-2	-----	No	gx25dstn002
		lsngx25a01	10	001-015-001
001-015-003	-----	s-02171-aa	No	gx25dstn003
002-015-001	-----	-----	No	gx25dstn004
002-015-002	-----	-----	No	gx25dstn005
002-015-003	-----	-----	No	gx25dstn006

Feature Notice

002-015-004	-----	-----	No	gx25dstn007
		lsngx25b01	10	002-015-002
040-001-*	-----	-----	No	myncaibeno
040-010-*	-----	-----	No	myncaibeno2
010-***	-----	-----	No	-----
040-***	-----	-----	No	-----
040-001-001	-----	-----	No	noncluster1
040-001-002	-----	-----	No	noncluster2
DPCI	ALIASA	ALIASN/N24	RTX	CLLI
		LSN	RC	APCI
s-4-002-0	010-001-001	s-08228-aa	No	-----
2-010-0	-----	-----	No	dstn13
		lsn13	10	2-010-0
p-2-010-0	-----	-----	No	dstn13p
2-010-1	002-010-001	-----	No	dstn14
		lsn14	10	2-010-1
p-2-010-1	002-100-001	-----	No	dstn14p
2-010-2	-----	04178-aa	No	dstn15
		lsn15	10	2-010-2
p-2-010-2	-----	08178-aa	No	dstn15p
2-010-3	-----	s-04179-aa	No	dstn16
		lsn16	10	2-010-3
p-2-010-3	-----	s-08179-aa	No	dstn16p
2-070-1	-----	-----	No	tgtitui001
		lsn13	10	2-010-0
		lsn14	20	2-010-1
		lsn15	30	2-010-2
		lsn16	40	2-010-3
2-010-4	-----	002-010-004	No	dstn17
		lsn17	10	2-010-4
p-2-010-4	-----	002-100-004	No	dstn17p
2-010-5	002-010-005	04181-aa	No	dstn18
		lsn18	10	2-010-5
p-2-010-5	002-100-005	08181-aa	No	dstn18p
2-010-6	002-010-006	s-04182-aa	No	dstn19
		lsn19	10	2-010-6
p-2-010-6	002-100-006	s-08182-aa	No	dstn19p
2-010-7	002-010-007	002-010-007	No	dstn20
		lsn20	10	2-010-7
p-2-010-7	002-100-007	002-100-007	No	dstn20p
2-070-2	-----	-----	No	tgtitui002
		lsn17	10	2-010-4
		lsn18	20	2-010-5
		lsn19	30	2-010-6
		lsn20	40	2-010-7
s-2-020-0	-----	-----	No	dstn21
		lsn21	10	s-2-020-0
ps-2-020-0	-----	-----	No	dstn21p
s-2-020-1	002-020-001	-----	No	dstn22
		lsn22	10	s-2-020-1
ps-2-020-1	002-200-001	-----	No	dstn22p
s-2-020-2	-----	04258-aa	No	dstn23
		lsn23	10	s-2-020-2
ps-2-020-2	-----	08258-aa	No	dstn23p
s-2-020-3	-----	s-04259-aa	No	dstn24
		lsn24	10	s-2-020-3
ps-2-020-3	-----	s-08259-aa	No	dstn24p
s-2-070-3	-----	-----	No	tgtitui003
		lsn21	10	s-2-020-0
		lsn22	20	s-2-020-1
		lsn23	30	s-2-020-2
		lsn24	40	s-2-020-3
s-2-020-4	-----	002-020-004	No	dstn25
		lsn25	10	s-2-020-4
ps-2-020-4	-----	002-200-004	No	dstn25p
s-2-020-5	002-020-005	04261-aa	No	dstn26
		lsn26	10	s-2-020-5
ps-2-020-5	-----	-----	No	dstn26p
s-2-020-6	002-020-006	s-04262-aa	No	dstn27
		lsn27	10	s-2-020-6
ps-2-020-6	002-200-005	08261-aa	No	dstn27p

Feature Notice

s-2-020-7	002-020-007	002-020-007	No	dstn28
		lsn28	10	s-2-020-7
ps-2-020-7	002-200-007	002-200-007	No	dstn28p
s-2-070-4	-----	-----	No	tgtitui004
		lsn25	10	s-2-020-4
		lsn26	20	s-2-020-5
		lsn27	30	s-2-020-6
		lsn28	40	s-2-020-7
s-3-070-3	-----	-----	No	tgtitui007
		lsn35	10	s-3-040-2
		lsn36	20	s-3-040-3
		lsn37	30	s-3-040-4
s-3-070-4	-----	-----	No	tgtitui008
		lsn38	10	s-3-040-5
		lsn39	20	s-3-040-6
		lsn40	30	s-3-040-7
s-2-029-6	002-029-006	s-04269-aa	Yes	rtxrout002
		lsn26	5	s-2-020-5
DPCI	ALIASI	ALIASN/N24	RTX	CLLI
		LSN	RC	APCI
3-030-0	s-3-030-0	-----	No	dstn29
		lsn29	10	3-030-0
p-3-030-0	s-3-031-0	-----	No	dstn29p
3-030-1	s-3-030-1	06385-aa	No	dstn30
		lsn30	10	3-030-1
p-3-030-1	s-3-031-1	07385-aa	No	dstn30p
3-030-2	s-3-030-2	s-06386-aa	No	dstn31
		lsn31	10	3-030-2
p-3-030-2	s-3-031-2	s-07386-aa	No	dstn31p
3-070-1	s-3-070-1	-----	No	tgtitui005
		lsn29	10	3-030-0
		lsn30	20	3-030-1
		lsn31	30	3-030-2
3-030-3	s-3-030-3	003-030-003	No	dstn32
		lsn32	10	3-030-3
p-3-030-3	s-3-031-3	003-031-003	No	dstn32p
3-070-2	s-3-070-2	-----	No	tgtitui006
		lsn32	10	3-030-3
		lsn33	20	3-030-4
		lsn34	30	3-030-5
s-3-040-2	3-040-2	-----	No	dstn35
		lsn35	10	s-3-040-2
ps-3-040-2	3-041-2	-----	No	dstn35p
s-3-040-3	3-040-3	06467-aa	No	dstn36
		lsn36	10	s-3-040-3
ps-3-040-3	3-041-3	07467-aa	No	dstn36p
s-3-040-4	3-040-4	s-06468-aa	No	dstn37
		lsn37	10	s-3-040-4
ps-3-040-4	3-041-4	s-07468-aa	No	dstn37p
s-3-040-5	3-040-5	003-040-005	No	dstn38
		lsn38	10	s-3-040-5
ps-3-040-5	3-041-5	003-041-005	No	dstn38p
DPCI	ALIASN	ALIASN	RTX	CLLI
		LSN	RC	APCI
3-030-4	s-06388-aa	06388-aa	No	dstn33
		lsn33	10	3-030-4
p-3-030-4	s-07388-aa	07388-aa	No	dstn33p
3-030-5	06389-aa	s-06389-aa	No	dstn34
		lsn34	10	3-030-5
p-3-030-5	07389-aa	s-07389-aa	No	dstn34p
s-3-040-6	s-06471-aa	06471-aa	No	dstn39
		lsn39	10	s-3-040-6
ps-3-040-6	s-07471-aa	07471-aa	No	dstn39p
s-3-040-7	06472-aa	s-06472-aa	No	dstn40
		lsn40	10	s-3-040-7
ps-3-040-7	07472-aa	s-07472-aa	No	dstn40p
DPCN	ALIASA	ALIASI	RTX	CLLI
		LSN	RC	APCN
06157-aa	020-005-002	-----	No	-----

Feature Notice

08192-aa	-----	-----	No	dstn41
		lsn41	10	08192-aa
p-08192-aa	-----	-----	No	dstn41p
08193-aa	004-000-001	-----	No	dstn42
		lsn42	10	08193-aa
p-08193-aa	004-200-001	-----	No	dstn42p
08194-aa	-----	4-000-2	No	dstn43
		lsn43	10	08194-aa
p-08194-aa	-----	4-040-2	No	dstn43p
08195-aa	-----	s-4-000-3	No	dstn44
		lsn44	10	08195-aa
p-08195-aa	-----	s-4-040-3	No	dstn44p
08753-aa	-----	-----	No	tgtitun001
		lsn41	10	08192-aa
		lsn42	20	08193-aa
		lsn43	30	08194-aa
		lsn44	30	08195-aa
08196-aa	004-000-004	4-000-4	No	dstn45
		lsn45	10	08196-aa
p-08196-aa	004-200-004	4-040-4	No	dstn45p
08197-aa	004-000-005	s-4-000-5	No	dstn46
		lsn46	10	08197-aa
p-08197-aa	004-200-005	s-4-040-5	No	dstn46p
08754-aa	-----	-----	No	tgtitun002
		lsn45	10	08196-aa
		lsn46	20	08197-aa
		lsn47	30	08198-aa
		lsn48	30	08199-aa
s-08272-aa	-----	-----	No	dstn49
		lsn49	10	s-08272-aa
ps-08272-aa	-----	-----	No	dstn49p
s-08273-aa	004-010-001	-----	No	dstn50
		lsn50	10	s-08273-aa
ps-08273-aa	004-200-010	-----	No	dstn50p
s-08274-aa	-----	4-010-2	No	dstn51
		lsn51	10	s-08274-aa
ps-08274-aa	-----	4-050-2	No	dstn51p
s-08275-aa	-----	s-4-010-3	No	dstn52
		lsn52	10	s-08275-aa
ps-08275-aa	-----	s-4-050-3	No	dstn52p
s-08755-aa	-----	-----	No	tgtitun003
		lsn49	10	s-08272-aa
		lsn50	20	s-08273-aa
		lsn51	30	s-08274-aa
		lsn52	30	s-08275-aa
s-08276-aa	004-010-004	4-010-4	No	dstn53
		lsn53	10	s-08276-aa
ps-08276-aa	004-200-040	4-050-4	No	dstn53p
s-08277-aa	004-010-005	s-4-010-5	No	dstn54
		lsn54	10	s-08277-aa
ps-08277-aa	004-200-050	s-4-050-5	No	dstn54p
s-08756-aa	-----	-----	No	tgtitun004
		lsn53	10	s-08276-aa
		lsn54	20	s-08277-aa
		lsn55	30	s-08278-aa
		lsn56	30	s-08279-aa
08757-aa	-----	-----	No	tgtitun005
		lsn57	10	12688-aa
		lsn58	20	12689-aa
		lsn59	30	12690-aa
s-08758-aa	-----	-----	No	tgtitun006
		lsn60	10	s-12691-aa
		lsn61	20	s-12692-aa
		lsn62	30	s-12693-aa
08199-fr	-----	s-4-006-1	No	dstn48dupfr
08199-tk	-----	4-006-2	No	dstn48duptk
08198-nz	-----	-----	No	dstn47dupnz
s-08273-fr	-----	4-006-3	No	dstn50dupfr
DPCN	ALIASI	ALIASI	RTX	CLLI
		LSN	RC	APCN
08198-aa	s-4-000-6	4-000-6	No	dstn47

Feature Notice

p-08198-aa	s-4-040-6	lsn47	10	08198-aa
08199-aa	4-000-7	4-040-6	No	dstn47p
		s-4-000-7	No	dstn48
		lsn48	10	08199-aa
p-08199-aa	4-040-7	s-4-040-7	No	dstn48p
s-08278-aa	s-4-010-6	4-010-6	No	dstn55
		lsn55	10	s-08278-aa
ps-08278-aa	s-4-050-6	4-050-6	No	dstn55p
s-08279-aa	4-010-7	s-4-010-7	No	dstn56
		lsn56	10	s-08279-aa
ps-08279-aa	4-050-7	s-4-050-7	No	dstn56p
s-08379-aa	s-4-058-7	4-058-7	Yes	rtxrout003
		lsn55	80	s-08278-aa
08198-fr	s-4-005-7	4-005-7	No	dstn47dupfr
08198-tk	4-006-0	s-4-006-0	No	dstn47dupTk
DPCN	ALIASN	ALIASI	RTX	CLLI
		LSN	RC	APCN
12688-aa	s-12688-aa	-----	No	dstn57
		lsn57	10	12688-aa
p-12688-aa	s-13688-aa	-----	No	dstn57p
12689-aa	s-12689-aa	6-050-1	No	dstn58
		lsn58	10	12689-aa
p-12689-aa	s-13689-aa	6-060-1	No	dstn58p
12690-aa	s-12690-aa	s-6-050-2	No	dstn59
		lsn59	10	12690-aa
p-12690-aa	s-13690-aa	s-6-060-2	No	dstn59p
s-12691-aa	12691-aa	-----	No	dstn60
		lsn60	10	s-12691-aa
ps-12691-aa	13691-aa	-----	No	dstn60p
s-12692-aa	12692-aa	6-050-4	No	dstn61
		lsn61	10	s-12692-aa
ps-12692-aa	13692-aa	6-060-4	No	dstn61p
s-12693-aa	12693-aa	s-6-050-5	No	dstn62
		lsn62	10	s-12693-aa
ps-12693-aa	13693-aa	s-6-060-5	No	dstn62p
s-08272-fr	08300-fr	-----	No	dstn49dupfr
s-08272-tk	08300-tk	4-006-7	No	dstn49dupTk
DPCN24	ALIASA	ALIASI	RTX	CLLI
		LSN	RC	APCN24
003-003-004	003-003-003	3-003-4	No	-----
006-005-001	-----	-----	No	dstn63
		lsn63	10	006-005-001
p-006-005-001	-----	-----	No	dstn63p
006-005-002	006-005-002	-----	No	dstn64
		lsn64	10	006-005-002
p-006-005-002	006-005-020	-----	No	dstn64p
006-005-003	-----	6-005-3	No	dstn65
		lsn65	10	006-005-003
p-006-005-003	-----	6-050-3	No	dstn65p
006-070-001	-----	-----	No	tgtitun24a
		lsn63	10	006-005-001
		lsn64	20	006-005-002
		lsn65	30	006-005-003
006-005-004	-----	s-6-005-4	No	dstn66
		lsn66	10	006-005-004
p-006-005-004	-----	s-6-050-4	No	dstn66p
006-005-005	006-005-005	6-005-5	No	dstn67
		lsn67	10	006-005-005
p-006-005-005	006-005-050	6-050-5	No	dstn67p
006-070-002	-----	-----	No	tgtitun24b
		lsn66	10	006-005-004
		lsn67	20	006-005-005

;

- **ent/chg/rtrv-map**—Enhanced to support ITU point codes of different domains. The following examples display output for the **rtrv-map** command when mixed ITU domains are used.

Feature Notice

NOTE: If different domains are not used, then the NET column does not appear. However, the output maintains the spacing that is used to accommodate the NET column.

Example 1 displays the output when the status of all map sets is requested.

rtrv-map

```
flexgtoff 08-12-09 12:05:28 EST EAGLE 40.1.0
PCI      NET  Mate PC      SSN RC MULT SRM MRC GRP NAME SSO
1-109-0
          I    1-110-0      90 20 COM NO  NO ----- OFF
          N    00123      90 20 COM NO  NO ----- OFF
          N    01234      90 30 COM NO  NO ----- OFF

PCN      Mate PCN      SSN RC MULT SRM MRC GRP NAME SSO
12345
          12347      5  20 DOM NO  NO ----- OFF
          12347      5  20 DOM NO  NO ----- OFF
```

MAP table is (6 of 1024) 1% full.

Example 2 displays the output when information for all MAP sets containing a specific point code is requested.

rtrv-map:pci=1-110-0

```
wgtonflxoff 08-12-03 12:03:44 EST EAGLE 40.1.0
PCI      NET  Mate PC      SSN RC MULT SRM MRC GRP NAME SSO WT %WT THR
1-110-0
          I    1-109-0      90 20 COM NO  NO ----- OFF 10 20 60
          N    00123      90 20 COM NO  NO ----- OFF 20 40 60
          N    01234      90 30 COM NO  NO ----- OFF 30 100 60
```

MAP table is (14 of 1024) 1% full.

- **ent/chg/rtrv-mrn**—Enhanced to support ITU point codes of different domains. The following example displays output for a mixed ITU MRN set.

NOTE: If different domains are not used, then the NET column does not appear. However, the output maintains the spacing that is used to accommodate the NET column.

rtrv-mrn:pci=1-55-1:mrnset=2

```
gflexon 08-12-03 11:35:12 EST EAGLE 40.1.0

MRNSET NET  PC      RC WT %WT THR
2      N  s-1-1-1-0235-aa  30 20 20 1
      I  1-055-1      30 20 20 1
      I  s-2-002-1      30 20 20 1
      I  s-2-002-2      30 20 20 1
      N  1-1-1-0444-bb  30 20 20 1
```

MRN table is (28 of 6000) 1% full.

Limitations

No limitations are associated with this feature.

GTT Loadsharing with Alternate Routing Indicator

The GTT Loadsharing with Alternate Routing Indicator (GTT LS ARI) feature allows the routing indicator (RI) in the outgoing message to be provisioned without depending on whether the primary GT translation resulted in Final or Intermediary GTT. This feature provides a backup SCCP loadsharing mechanism if the primary SCCP loadsharing mechanism does not route the message.

This feature allows loadsharing relationships to be established between the MAP and MRN table in that the MAP set and MRN sets allow provisioning of MRN and MAP sets, respectively, as the Alternate Mate RI if the point codes in the MAP or MRN table are unavailable.

If the feature is enabled, then the MRN table allows access to the MAP table to perform a secondary mate search if all point codes in a given MRN set are unavailable. The MAP table also allows access to the MRN table to perform a secondary mate search if all point codes provisioned in a given MRN set are unavailable.

If a point code or a point code/subsystem number combination is specified, but an MRN set or MAP set is not specified, then the default MRN set or MAP set is used.

Only one secondary mate search can be performed per translation.

Feature Control Requirements

The GTT LS ARI feature has the following feature control requirements:

- FAK for Part Number 893-0274-01
- The feature cannot be enabled with a temporary FAK.
- The Intermediate GTT Loadsharing feature (893-0069-01) and the GTT feature bit must be turned on before the GTT LS ARI feature can be enabled.
- The feature can be turned on and off.

Hardware Requirements

None.

Commands

The following commands are enhanced to support the GTT LS ARI feature. For complete descriptions of these commands, refer to the *Commands Manual* for the EAGLE 5 ISS Release 40.1 documentation set.

- **enable/chg/rtrv-ctrl-feat**—Enhanced to enable, turn on, and display the status of the GTT LS ARI feature. The following example displays partial output for the **rtrv-ctrl-feat** command when the GTT LS ARI feature is enabled.

rtrv-ctrl-feat

```
rlghncxa03w 08-12-09 16:40:40 EST EAGLE 40.1.0
```

```
The following features have been permanently enabled:
Feature Name          Partnum  Status  Quantity
HC-MIM SLK Capacity   893012707 on      64
Command Class Management 893005801 on      ----
LNP Short Message Service 893006601 on      ----
Prepaid SMS Intercept Ph1 893006701 on      ----
Intermed GTT Load Sharing 893006901 on      ----
EAGLE5 Product        893007101 on      ----
EAGLE Product         893007201 off     ----
IP7 Product           893007301 off     ----
Network Security Enhance 893009101 off     ----
Telnet                893005701 on      ----
EAGLE OA&M IP Security  893400001 off     ----
Spare Point Code Support 893013601 on      ----
ITUN-ANSI SMS Conversion 893015301 on      ----
Flexible GTT Load-Sharing 893015401 on      ----
```

Feature Notice

```
GTT LS ARI                893027401  on          ----
;
```

- **ent/chg/dlt/rtrv-map**—Enhanced to provision a mated point code in the MRN table. The following examples display output for the **rtrv-map** command.

Example 1 displays the output when the Flexible GTT Loadsharing feature is enabled, and the Weighted GTT Loadsharing feature is turned off.

rtrv-map

```
tekelecstp 08-12-22 13:36:31 EST  EAGLE 40.1.0

MAPSET ID=DFLT  MRNSET ID=DFLT  MRNPC=   001-001-004
PCA             Mate PCA       SSN RC MULT SRM MRC GRP NAME SSO
001-001-001    001-001-002    11 10 SHR --- --- ----- OFF
                                12 10 SHR --- --- ----- OFF

MAPSET ID=2     MRNSET ID=DFLT  MRNPC=   001-001-003
PCA             Mate PCA       SSN RC MULT SRM MRC GRP NAME SSO
001-001-005    001-001-006    11 20 SHR --- --- ----- OFF
                                10 20 SHR --- --- ----- OFF

MAPSET ID=DFLT  MRNSET ID=----  MRNPC=-----
PCI             Mate PCI       SSN RC MULT SRM MRC GRP NAME SSO
1-101-1        1-101-2        11 10 SHR --- --- itugrp  OFF
                                12 10 SHR --- --- itugrp  OFF

MAPSET ID=5     MRNSET ID=DFLT  MRNPC=   1-101-3
PCI             NET  Mate PC     SSN RC MULT SRM MRC GRP NAME SSO
1-101-1        I   s-2-202-1    11 10 SHR --- --- itugrp  OFF
                N   01002      12 10 SHR --- --- ----- OFF

MAPSET ID=3     MRNSET ID=1     MRNPC=   01003
PCN             Mate PCN       SSN RC MULT SRM MRC GRP NAME SSO
01001          01002          11 10 SHR --- --- ----- OFF
                                12 10 SHR --- --- ----- OFF

MAPSET ID=4     MRNSET ID=2     MRNPC=   s-2-202-3
PCI             Mate PCI       SSN RC MULT SRM MRC GRP NAME SSO
s-2-202-1     s-2-202-2     21 10 SHR --- --- ----- OFF
                                22 10 SHR --- --- ----- OFF

MAPSET ID=1     MRNSET ID=----  MRNPC=-----
PCN             Mate PCN       SSN RC MULT SRM MRC GRP NAME SSO
s-02001      s-02002      21 10 SHR --- --- ----- OFF
                                22 10 SHR --- --- ----- OFF

MAP table is (15 of 36000) 1% full.
```

Example 2 displays the output when the Flexible GTT Loadsharing feature is enabled, and the Weighted GTT Loadsharing feature is turned on.

rtrv-map

```
eaglestp 08-12-22 18:43:29 EST  EAGLE 40.1.0

MAPSET ID=DFLT  MRNSET ID=DFLT  MRNPC=   001-001-004
PCA             Mate PCA       SSN RC MULT SRM MRC GRP NAME SSO WT %WT THR
001-001-001    001-001-002    11 10 SHR --- --- ----- OFF -- --- ---
                                12 10 SHR --- --- ----- OFF -- --- ---

MAPSET ID=2     MRNSET ID=DFLT  MRNPC=   001-001-003
PCA             Mate PCA       SSN RC MULT SRM MRC GRP NAME SSO WT %WT THR
001-001-005    001-001-006    11 20 SHR --- --- ----- OFF 20 67 50
                                10 20 SHR --- --- ----- OFF 10 33 50

MAPSET ID=DFLT  MRNSET ID=----  MRNPC=-----
PCI             Mate PCI       SSN RC MULT SRM MRC GRP NAME SSO WT %WT THR
```

```

1-101-1          11 10 SHR --- --- itugrp  OFF -- --- ---
                1-101-2          12 10 SHR --- --- itugrp  OFF -- --- ---

MAPSET ID=5      MRNSET ID=DFLT  MRNPC=   1-101-3
PCI             NET  Mate PC      SSN RC MULT SRM MRC GRP NAME SSO WT %WT THR
1-101-1        I  s-2-202-1      11 10 SHR --- --- itugrp  OFF 30 33 1
                N  01002         12 10 SHR --- --- ----- OFF 30 33 1

MAPSET ID=3      MRNSET ID=1      MRNPC=   01003
PCN             Mate PCN         SSN RC MULT SRM MRC GRP NAME SSO WT %WT THR
01001          01002           11 10 SHR --- --- ----- OFF 40 67 1
                01002           12 10 SHR --- --- ----- OFF 20 33 1

MAPSET ID=4      MRNSET ID=2      MRNPC= s-2-202-3
PCI             Mate PCI         SSN RC MULT SRM MRC GRP NAME SSO WT %WT THR
s-2-202-1      s-2-202-2        21 10 SHR --- --- ----- OFF -- --- ---
                s-2-202-2        22 10 SHR --- --- ----- OFF -- --- ---

MAPSET ID=1      MRNSET ID=----- MRNPC=-----
PCN             Mate PCN         SSN RC MULT SRM MRC GRP NAME SSO WT %WT THR
s-02001        s-02002         21 10 SHR --- --- ----- OFF -- --- ---
                s-02002         22 10 SHR --- --- ----- OFF -- --- ---

MAP table is (15 of 36000) 1% full.
;

```

Example 3 displays the output for a specific point code. The Flexible GTT Load Sharing feature is enabled, and the Weighted GTT Load Sharing feature is turned off.

rtrv-map:pcn=1001

```

eaglestp 08-12-22 18:41:14 EST  EAGLE 40.1.0

MAPSET ID=3      MRNSET ID=1      MRNPC=   01003
PCN             Mate PCN         SSN RC MULT SRM MRC GRP NAME SSO
01001          01002           11 10 SHR --- --- ----- OFF
                01002           12 10 SHR --- --- ----- OFF

MAP table is (15 of 36000) 1% full.
;

```

Example 4 displays the output for a specific point code. The Flexible GTT Load Sharing feature is enabled, and the Weighted GTT Load Sharing feature is turned on.

rtrv-map:pcn=1001

```

eaglestp 08-12-22 18:43:34 EST  EAGLE 40.1.0

MAPSET ID=3      MRNSET ID=1      MRNPC=   01003
PCN             Mate PCN         SSN RC MULT SRM MRC GRP NAME SSO WT %WT THR
01001          01002           11 10 SHR --- --- ----- OFF 40 67 1
                01002           12 10 SHR --- --- ----- OFF 20 33 1

MAP table is (15 of 36000) 1% full.
;

```

Example 5 displays the output for a specific point code and subsystem number. The Flexible GTT Load Sharing feature is enabled, and the Weighted GTT Load Sharing feature is turned off.

rtrv-map:pcn=1002:ssn=12

```

eaglestp 08-12-22 18:41:20 EST  EAGLE 40.1.0

MAPSET ID=3      MRNSET ID=1      MRNPC=   01003
PCN             Mate PCN         SSN RC MULT SRM MRC GRP NAME SSO
01001          01002           11 10 SHR --- --- ----- OFF
                01002           12 10 SHR --- --- ----- OFF

MAPSET ID=5      MRNSET ID=DFLT  MRNPC=   1-101-3
PCN             NET  Mate PC      SSN RC MULT SRM MRC GRP NAME SSO

```

Feature Notice

```

1-101-1          11 10 SHR --- --- itugrp  OFF
                I  s-2-202-1 12 10 SHR --- --- ----- OFF
                N  01002    12 10 SHR --- --- ----- OFF

```

MAP table is (15 of 36000) 1% full.

;

Example 6 displays the output for a specific point code and subsystem number. The Flexible GTT Load Sharing feature is enabled, and the Weighted GTT Load Sharing feature is turned on.

rtrv-map:pcn=1002:ssn=12

eaglestp 08-12-22 18:43:39 EST EAGLE 40.1.0

```

MAPSET ID=3      MRNSET ID=1      MRNPC=   01003
PCN              Mate PCN         SSN RC MULT SRM MRC GRP NAME SSO WT %WT THR
01001           01002            11 10 SHR --- --- ----- OFF 40 67 1
                01002            12 10 SHR --- --- ----- OFF 20 33 1

```

```

MAPSET ID=5      MRNSET ID=DFLT  MRNPC=   1-101-3
PCN              NET  Mate PC      SSN RC MULT SRM MRC GRP NAME SSO WT %WT THR
1-101-1         I  s-2-202-1      11 10 SHR --- --- itugrp  OFF 30 33 1
                N  01002          12 10 SHR --- --- ----- OFF 30 33 1

```

MAP table is (15 of 36000) 1% full.

;

- **ent/chg/dlt/rtrv-mrn**—Enhanced to provision a mated point code in the MAP table. The following examples display output for the **rtrv-mrn** command.

Example 1 displays the output when the Flexible GTT Loadsharing feature is enabled, and the Weighted GTT Loadsharing feature is turned off.

rtrv-mrn

eaglestp 08-12-22 19:03:49 EST EAGLE 40.1.0

```

MRNSET MAPSET  MAPPCN          MAPSSN      PCN          RC
DFLT   DFLT    01003           10          01002         10
                01001           10          01001         10

```

```

MRNSET MAPSET  MAPPC          MAPSSN      PC          RC
1      -----  -----          ---         001-001-002  10
                001-001-001  10

```

```

MRNSET MAPSET  MAPPCI          MAPSSN      PCI          RC
2      1        1-101-3         10          1-101-2       10
                1-101-1       10

```

```

MRNSET MAPSET  MAPPCI          MAPSSN      PCI          RC
3      2        s-2-202-3         *          s-2-202-2     10
                s-2-202-1     10

```

```

MRNSET MAPSET  MAPPCN          MAPSSN      PCN          RC
4      DFLT    s-02003           *          s-02002       20
                s-02001       20

```

```

MRNSET MAPSET  MAPPCN          MAPSSN NET  PC          RC
5      DFLT    01004           20 I    1-101-1     10
                N    01001           I    01001         10
                I    s-2-202-1     I    s-2-202-1     30

```

MRN table is (13 of 6000) 1% full.

;

Example 2 displays the output when the Flexible GTT Loadsharing is enabled, and the Weighted GTT Loadsharing features is turned on.

rtrv-mrn

```
eaglestp 08-12-22 19:04:42 EST EAGLE 40.1.0

MRNSET MAPSET MAPPCN      MAPSSN      PCN          RC WT %WT THR
DFLT   DFLT   01003          10          01002        10 5  50  1
                                01001        10 5  50  1

MRNSET MAPSET MAPPC      MAPSSN      PC          RC WT %WT THR
1      -----
001-001-002  10 20 67  20
001-001-001  10 10 33  20

MRNSET MAPSET MAPPCI      MAPSSN      PCI          RC WT %WT THR
2      1      1-101-3      10          1-101-2      10 40 57  1
                                1-101-1      10 30 43  1

MRNSET MAPSET MAPPCI      MAPSSN      PCI          RC WT %WT THR
3      2      s-2-202-3      *          s-2-202-2    10 50 50  1
                                s-2-202-1    10 50 50  1

MRNSET MAPSET MAPPCN      MAPSSN      PCN          RC WT %WT THR
4      DFLT   s-02003      *          s-02002      20 -- -- --
                                s-02001      20 -- -- --

MRNSET MAPSET MAPPCN      MAPSSN NET  PC          RC WT %WT THR
5      DFLT   01004          20 I      1-101-1      10 20 50  1
                                N      01001        10 20 50  1
                                I      s-2-202-1    30 20 100  1
```

MRN table is (13 of 6000) 1% full.

;

Example 3 displays the output for a specific point code and MRN Set. The Flexible GTT Loadsharing feature is enabled, and the Weighted GTT Loadsharing feature is turned off.

rtrv-mrn:pcn=1001:mrnset=dflt

```
eaglestp 08-12-22 19:03:53 EST EAGLE 40.1.0

MRNSET MAPSET MAPPCN      MAPSSN      PCN          RC
DFLT   DFLT   01003          10          01002        10
                                01001        10
```

MRN table is (13 of 6000) 1% full.

;

Example 4 displays the output for a specific point code and MRN Set. The Flexible GTT Loadsharing feature is enabled, and the Weighted GTT Loadsharing feature is turned on.

rtrv-mrn:pcn=1001:mrnset=dflt

```
eaglestp 08-12-22 19:04:47 EST EAGLE 40.1.0

MRNSET MAPSET MAPPCN      MAPSSN      PCN          RC WT %WT THR
DFLT   DFLT   01003          10          01002        10 5  50  1
                                01001        10 5  50  1
```

MRN table is (13 of 6000) 1% full.

;

Limitations

The GTT LS ARI feature does not support local subsystem numbers (e.g., LNP, INP, EIR, V-Flex).

Feature Notice

MO SMS B-Party Routing

The MO SMS B-Party Routing feature allows global translation type (GTT) routing to be performed on IS41 MO SMDPP and GSM MO_FSM messages based on the SMS B-party digits from the MAP layer of the message.

If the B number is a short code, then a short message service (SMS) can be directed to a specific short message service center (SMSC) based on the short code dialed by the SMS sender. If the B number is the MSISDN/MDN of the SMS recipient, then the SMS can be directed to a specific SMSC based on subscriber groupings or types.

Feature Control Requirements

The MO SMS B-Party Routing feature has the following feature control requirements:

- The Enhanced GTT (EGTT) feature must be turned on before the MO SMS B-Party Routing feature can be enabled.
- FAK for part number 893-0246-01
- A temporary FAK cannot be used to enable the feature.

Hardware Requirements

The MO SMS B-Party Routing feature requires Service Module cards.

The MO SMS B-Party Routing feature cannot be enabled if a TSM card running the SCCP application is provisioned. A TSM card running the SCCP application cannot be provisioned after the feature is enabled.

Commands

The following commands are enhanced for the MO SMS B-Party Routing feature. For complete descriptions of these commands, refer to the *Commands Manual* for the EAGLE 5 ISS Release 40.1 documentation set.

- **enable/chg/rtrv-ctrl-feat**—Enhanced to enable, turn on, and display the status of the the MO SMS B-Party Routing feature. The following example displays partial output for the **rtrv-ctrl-feat** command when the MO SMS B-Party Routing feature is enabled and turned on.

rtrv-ctrl-feat

```
rlghncxa03w 08-12-09 16:40:40 EST EAGLE 40.1.0

The following features have been permanently enabled:
Feature Name          Partnum  Status  Quantity
HC-MIM SLK Capacity  893012707 on      64
MT-Based GSM SMS NP   893020001 on      ----
MT-Based GSM MMS NP   893024101 on      ----
MT-Based IS41 SMS NP  893019901 on      ----
G-Flex MAP Layer Routing 893021701 on      ----
G-Flex                893021901 on      ----
MO SMS B-Party Routing 893024601 on      ----
;
```

- **chg/rtrv-gsmsmsopts**—Enhanced to support messages that are modified by the MO SMS B-Party Routing feature. Example output for the **rtrv-gsmsmsopts** command is shown in the [Commands](#) section for MO SMS NPP.

- **chg/rtrv-is41smsopts**—Enhanced to support messages that are modified by the MO SMS B-Party Routing feature. Example output for the **rtrv-is41smsopts** command is shown in the [Commands](#) section for MO SMS NPP.
- **dlt-gttset**—Enhanced to prevent deletion of a GTT set if it is referenced by a B-Party GTT set.
- **ent-card**—Enhanced to prevent TSM cards from being provisioned in the system if the MO SMS B-Party Routing feature is enabled.
- **ent/chg/dlt/rtrv-srvsel**—Enhanced to allow the **nserv=smsmr** parameter to be specified if the MO SMS B-Party Routing feature is enabled.

Limitations

The MO SMS B-Party Routing feature works with only non-segmented MO SMS messages.

MO SMS NPP

The MO SMS NPP feature applies comprehensive Numbering Plan Processor (NPP) number conditioning and service logic execution to the following existing features:

- MO SMS B-Party Routing
- MO SMS IS41-to-GSM Migration
- MO SMS Prepaid Intercept on B-Party
- MO-based GSM SMS NP
- MO-based IS41 SMS NP
- Portability Check for MO SMS
- Prepaid SMS Intercept Phase 1 (PPSMS)

The MO SMS NPP feature causes execution of all of the above features to be controlled by NPP, whether the feature is turned on or off.

This feature also adds new MO SMS ASD and MO SMS GRN features, which are used to support Additional Subscriber Data and Generic Routing Number information, respectively.

The MO SMS NPP feature supports GSM and IS41 protocols and IS41 SMDPP and GSM Forward SM Mobile Originated messages.

Feature Control Requirements

The MO SMS NPP feature has the following feature control requirements:

- The feature of interest must be enabled and turned on, using its current FAK.
- The GTT feature bit and EGTT feature bit must be turned on before any of the existing features can be enabled.
- The **mosmsgcdpn** or the **mosmsgcgpn** NPP service must be turned on before the MO SMS Prepaid Intercept on B-Party or the PPSMS feature can function.
- The **mosmsgcgpn** NPP service must be turned on before the Portability Check feature can function.

Feature Notice

- The **mosmsgcdpn** NPP service must be turned on before the MO-based GSM SMS NP feature can function.
- The **mosmsicdpn** NPP service must be turned on before the MO-based IS41 SMS NP feature can function.
- The MO SMS ASD feature requires a FAK for Part Number 893-0267-01.
- The MO SMS GRN feature requires a FAK for Part Number 893-0266-01.
- The **mosmsgcdpn**, **mosmsgcgp**, **mosmsicdpn**, or **mosmsicgpn** NPP service must be turned on before the MO SMS ASD or MO SMS GRN feature can function.
- The MO SMS ASD and MO SMS GRN features can be turned on and off.
- A Temporary FAK cannot be used to turn on the MO SMS ASD or MO SMS GRN feature.

Hardware Requirements

None.

Commands

The following commands are added or enhanced to support the MO SMS NPP feature. For complete descriptions of these commands, refer to the *Commands Manual* for the EAGLE 5 ISS Release 40.1 documentation set.

- **chg/rtrv-gsm-msg**—Added to provision MO SMS GSM test messages. The following example displays output for the **rtrv-gsm-msg** command.
rtrv-gsm-msg:msgn=1
tekelecstp 08-12-02 10:46:51 EST EAGLE 40.1.0
MSG = 1 ACTIVE = YES

CGPA_GT = 2
CGPA_GT_NAI = 4 CGPA = 919818000001

CDPA_GT = 2
CDPA_GT_NAI = 4 CDPA = 919818000002

CGPN_NAI = 1
CGPN_NP = 2 CGPN = 919818000007

CDPN_NAI = 1
CDPN_NP = 2 CDPN = 919818000008
- **chg-gsmopts**—Enhanced to allow the **multcc** and **nmultcc** parameters to be provisioned if the MO-based GSM SMS NP, MO-based IS41 SMS NP or MO SMS IS41-to-GSM Migration features are not enabled.
- **chg/rtrv-gsmsmsopts**—Enhanced to add the **mosmsaclen** parameter and delete the **mosmsdnfmt** and **mosmsdnnai** parameters. The **rtrv-gsmsmsopts** command is also enhanced to display all of the parameters whether or not they are provisioned. If the parameters are not provisioned, then the system default values are displayed. The following example displays output for the **rtrv-gsmsmsopts** command.

rtrv-gsmsmsopts

```
tekelecstp 09-02-20 11:46:51 EST EAGLE 40.1.0
GSM SMS OPTIONS
-----
BPARTYGTTSN = NONE           MOSMSGTTDIG = SCCPCDPA
MOSMSTYPE   = ALL           MOSMSNAI    = NAT
MOSMSSA     = YES           MOSMSFWD    = YES
MOSMSACLEN  = 0             MOSMSGTA    = ABCDEF1234567890EF
MOSMSTCAPSEG = OFF          MOSMSDIGMAT = EXACT

MTSMSIMSI   = MCCRNDN       MTSMSNNI   = RN
MTSMSTYPE   = RN            MTSMSACKN  = ACK
```

```

MTSMSDLTR      = NO           MTSMSDLTRV     = NONE
MTSMSNAKERR    = 1           MTSMSCHKSRC    = NO
MTMMSSTYPE    = RN           MTMMSGTA       = NONE
MTMMSACKN     = ACK
    
```

;

- **chg/rtrv-is41-msg**—Added to provision MO SMS IS41 test messages. The following example displays output for the **rtrv-is41-msg** command.

rtrv-is41-msg:msgn=1

```

tekelecstp 08-12-02 10:46:51 EST EAGLE 40.1.0
MSG = 1                ACTIVE = YES
    
```

```

CGPA_GT = 2
CGPA_GT_NAI = 4        CGPA = 919818000001
    
```

```

CDPA_GT = 2
CDPA_GT_NAI = 4        CDPA = 919818000002
    
```

```

CGPN_NAI = 1           CGPN_NP = 2
CGPN_ES = 1            CGPN = 919818000007
    
```

```

CDPN_NAI = 1           CDPN_NP = 2
CDPN_ES = 1            CDPN = 919818000008
    
```

- **chg/rtrv-is41smsopts**—Enhanced to add the **mosmsaclen** parameter and delete the **mosmsdnnai** parameter. The **rtrv-is41smsopts** command is also enhanced to display all of the parameters whether or not they are provisioned. If the parameters are not provisioned, then the system default values are displayed. The following example displays output for the **rtrv-is41smsopts** command.

rtrv-is41smsopts

```

tekelecstp 09-02-20 11:49:00 EST EAGLE 40.1.0
IS41 SMS OPTIONS
-----
    
```

```

BPARTYGTTSN      = NONE           MODAPARAM        = DA
MOIGMPFX         = IS412GSM       MOSMSACLEN       = 0
MOSMSDIGMAT     = EXACT           MOSMSNAI         = NAT
MOSMSGTTDIG     = SCCPCDPA        MOSMSTYPE        = ALL
    
```

```

MTSMSACKN       = ACK             MTSMSCHKSRC     = NO
MTSMSDNFMT     = RN              MTSMSDLTR       = NO
MTSMSDLTRV     = NONE            MTSMSDIGTYPE    = 6
MTSMSNAKERR    = 5               MTSMSFARM       = DIGIT
MTSMSSESN      = NO              MTSMSSSN        = 6
MTSMSTYPE      = RN
    
```

;

- **chg/rtrv-npp-serv**—Enhanced to provision services that support MO SMS NPP.
- **chg-stpopts**—Enhanced to allow the **defcc** and **defndc** parameters to be provisioned without any feature dependencies.
- **enable/chg/rtrv-ctrl-feat**—Enhanced to provision and display the status of the MO SMS GRN and MO SMS ASD features. The following example displays partial output for the **rtrv-ctrl-feat** command when the MO SMS GRN and MO SMS ASD features are turned on.

rtrv-ctrl-feat

```

rlghncxa03w 09-01-09 16:40:40 EST EAGLE 40.1.0
    
```

```

The following features have been permanently enabled:
Feature Name      Partnum  Status  Quantity
HC-MIM SLK Capacity  893012707  on      64
Command Class Management  893005801  on      ----
LNP Short Message Service 893006601  on      ----
    
```

Feature Notice

Prepaid SMS Intercept Ph1	893006701	on	----
Intermed GTT Load Sharing	893006901	on	----
GPORT	893017201	on	----
APORT	893016601	on	----
IS41 GSM Migration	893017301	off	----
MTP Msgs for SCC Apps	893017401	off	----
INP	893017901	on	----
ANSI-41 INP Query	893017801	on	----
TIF Number Portability	893018901	on	----
TIF SCS Forwarding	893022201	on	----
TIF Simple Number Subst.	893024001	on	----
MO SMS IS41-to-GSM Migr	893026201	on	----
TIF Number Portability	893018901	on	----
TIF SCS Forwarding	893022201	on	----
TIF Simple Number Subst.	893024001	on	----
ATINP	893022101	off	----
MO SMS ASD	893026701	on	----
MO SMS GRN	893026601	on	----

;

- **ent/chg/dlt/rtrv-cs1**—Enhanced to remove the **delpfx** list. This functionality is now handled by NPP.
- **ent/chg/dlt/rtrv-npp-as** —Enhanced to provision Formatting Actions and Service Actions that support MO SMS NPP.
- **ent/chg/dlt/rtrv-npp-srs**—Enhanced to provision services that support MO SMS NPP.
- **ent/chg/dlt-srvsel**—Enhanced to support the MO SMS ASD and MO SMS GRN features.
- **tst-msg**—Enhanced to support the MOSMSNPP variable.

Limitations

The MO SMS NPP feature has the following limitations:

- If both **migrate** and **cdpnp** Service Actions are provisioned, then the outgoing number format can only have a single format. For example, a migrated subscriber cannot be formatted with RN+DN while a ported subscriber is formatted with CC+RN+DN
- If a sub-address is present and needs to be stripped off before executing an RTDB lookup and restored with DN after the RTDB lookup, then the NPP final Formatting Action must be **dn**.

MO SMS Prepaid Intercept on B-Party

The MO SMS Prepaid Intercept on B-Party feature allows the existing Prepaid Intercept Phase 1 feature to redirect MO SMS messages based on whether the B-Party of the subscriber is prepaid. This enhancement allows MO SMS messages for prepaid subscribers to be redirected to a different short message service center (SMSC) than postpaid subscribers.

NOTE: The B-party is checked only if the A-party is not a prepaid subscriber.

This feature also allows the Prepaid Intercept Phase 1 feature to support ANSI MTP/SCCP messages.

Feature Control Requirements

The MO SMS Prepaid Intercept on B-Party feature has the following feature control requirements:

- The Prepaid Intercept Phase 1 feature must be enabled before the MO SMS Prepaid Intercept on B-Party option can be provisioned.
- The **chg-ppsopts:bpartychk=on** command must be specified before the option can be provisioned.

Hardware Requirements

None.

Commands

The **chg/rtrv-ppsopts** commands are enhanced to provision and display MO SMS Prepaid Intercept on B-Party information and to support ANSI point codes. Output examples for the **rtrv-ppsopts** command are shown in the [Update to the chg/rtrv-ppsopts Commands](#) section. For complete descriptions of these commands, refer to the *Commands Manual* for the EAGLE 5 ISS Release 40.1 documentation set.

Limitations

The MO SMS Prepaid Intercept on B-Party feature has the following limitations:

- The feature works with only non-segmented MO SMS messages.
- The feature does not support IS41 protocol processing.

Other Changes

The following core enhancements are included in Release 40.1:

Addition of Incoming and Outgoing Linkset Name to SLAN report for ECAP

A new message format is supported for transmission of an MSU report from the STPLAN to the ECAP. This format allows the incoming and outgoing linkset names to be included in the MSU. If this format is not provisioned, then the original message format is transferred to the ECAP.

The **chg/rtrv-ss7opts** commands are enhanced to indicate whether the incoming and outgoing linkset names are added to the MSU. For additional information, refer to the *Commands Manual* for the EAGLE 5 ISS Release 40.1 documentation set.

The following example displays output for the **rtrv-ss7opts** command when use of the new message format is provisioned.

rtrv-ss7opts

```
tekelecstp 09-01-05 01:29:25 EST EAGLE 40.1.0
```

```
SS7 OPTIONS
```

```
-----
LSRESTRICT    off
DISCARDTFCI   off
DISCARDTFCN   off
SLSREPLACE    no
SLANCPORGOPC off
SLANLSN       on
```

```
;
```

Feature Notice

Configurable Message Priority

This enhancement allows message priority to be set for messages that cross to ITUI, ITUN, or ITUN-24 networks. The priority applies to both MTP-routed and GT-routed messages that cross to the designated networks.

The message can originate from an ANSI or ITU network, as long as the message crosses a network. This enhancement does not apply to messages that remain within the same network or that cross from spare to non-spare within the same network.

The **chg-ss7opts** command is enhanced to allow provisioning of the message priority for ITU networks. The **rtrv-ss7opts** command is enhanced to display the message priority options. For complete descriptions of these commands, refer to the *Commands Manual* for the EAGLE 5 ISS Release 40.1 documentation set.

The following example displays output for the **rtrv-ss7opts** command when the message priority options are provisioned.

```
rtrv-ss7opts
tekelecstp 09-01-10 03:59:31 EST EAGLE 40.1.0

SS7 OPTIONS
-----
LSRESTRICT    off
DISCARDTFCI   off
DISCARDTFCN   off
SLSREPLACE    yes
SLANCPORGOPC off
MSGPRI2ITUI   3
MSGPRI2ITUN   0

;
```

NPP-AS and NPP-SRS Capacities

The **ent/chg/dlt/rtrv-npp-as** and **ent/chg/dlt/rtrv-npp-srs** commands are enhanced to report the NPP-AS and NPP-SRS capacities in the output. The output for the **rtrv-tbl-capacity** command is also enhanced to display NPP-AS and NPP-SRS capacities. For complete descriptions of these commands, refer to the *Commands Manual* for the EAGLE 5 ISS Release 40.1 documentation set.

The following examples display output for the commands.

Example 1 displays output for the **ent-npp-as** command.

```
ent-npp-as:asn=asn6:fa1=sn:ca1=ac3:ca2=sn8:ca3=cc3:fa2=ac:fa3=cc:sa1=rtdbtrn:sa2=rtdbtsp:sa3=r tdbtrnsp:sa4=cdial
tekelecstp 09-02-19 13:57:07 EST EAGLE 40.1.0
NPP-AS table is (5 of 1024) 1% full.

ENT-NPP-AS: MASP A - COMPLTD

;
```

Example 2 displays output for the **chg-npp-as** command.

```
chg-npp-as:asn=asn7:ca1=cc1:ca2=dn1:fa1=cc:fa2=dn
tekelecstp 09-02-19 13:57:06 EST EAGLE 40.1.0
NPP-AS table is (5 of 1024) 1% full.

CHG-NPP-AS: MASP A - COMPLTD

;
```

Example 3 displays output for the **dlt-npp-as** command.

```
dlt-npp-as:asn=asn1
```

```
tekelecstp 09-02-19 13:57:06 EST EAGLE 40.1.0
NPP-AS table is (4 of 1024) 1% full.
```

```
DLT-NPP-AS: MASP A - COMPLTD
```

;

Example 4 displays output for the **rtrv-npp-as** command.

rtrv-npp-as

```
tekelecstp 09-02-19 13:57:06 EST EAGLE 40.1.0

ASN          CA          SA          FA          OFNAI  REFS
-----
asn1         znx         asdlkup     asd         inc     0
asn2         znx         grnlkup     grn         inc     0
asn3         znx         cgpnasdrqd zn          inc     0
              nprls
asn4         znx         cgpnasdrqd grn         inc     0
              cgpngrnrqd
              nprelay
asn5         ac8         rtdbtrn     sn          inc     0
              sn8         rtdbtsp     ac
              cc3         rtdbtrnsp  cc
              cdial

NPP-AS table is (5 of 1024) 1% full.
```

;

Example 5 displays output for the **ent-npp-srs** command.

ent-npp-srs:srvn=nppt:fpfx=abc:fdl=16:fnai=intl:asn=asn3

```
tekelecstp 09-02-19 13:57:09 EST EAGLE 40.1.0
NPP-SRS table is (1 of 8192) 1% full.
```

```
ENT-NPP-SRS: MASP A - COMPLTD
```

;

Example 6 displays output for the **chg-npp-srs** command.

chg-npp-srs:srvn=nppt:fpfx=a:fdl=16:fnai=intl:asn=asn3

```
tekelecstp 09-02-19 13:58:06 EST EAGLE 40.1.0
NPP-SRS table is (1 of 8192) 1% full.
```

```
CHG-NPP-SRS: MASP A - COMPLTD
```

;

Example 7 displays output for the **dlt-npp-srs** command.

dlt-npp-srs:srvn=nppt:fpfx=abc:fdl=16:fnai=intl

```
tekelecstp 09-02-19 13:57:01 EST EAGLE 40.1.0
NPP-SRS table is (0 of 8192) 0% full.
```

```
DLT-NPP-SRS: MASP A - COMPLTD
```

;

Example 8 displays output for the **rtrv-npp-srs** command.

rtrv-npp-srs

```
tekelecstp 09-02-19 13:57:06 EST EAGLE 40.1.0

Command entered at terminal #4.
SRVN          FPFX          FDIGLEN  FNAI  ASN
-----
nppt         a              10       intl  asn2
```

Feature Notice

```
nppt      a          16      intl  asn3
tif2     b          12      natl  asn5

NPP-SRS  table is ( 3 of 8192) 1% full.
```

;

Example 9 displays output for the **rtrv-tbl-capacity** command.

rtrv-tbl-capacity

```
tekelecstp 09-02-19 13:57:06 EST  EAGLE 40.1.0

DSTN      table is (      200 of      2000) 10% full
XLIST     table is (         0 of         500) 0% full
X25-DSTN  table is (         0 of      1024) 0% full
SPC       table is (         0 of         40) 0% full
LS        table is (      512 of      1024) 50% full
SLK       table is (      48 of      1200) 4% full
X25-SLK   table is (         0 of      256) 0% full
IP-LNK    table is (      10 of         500) 2% full
IP-HOST   table is (      58 of      2048) 3% full
MAP       table is (      256 of      1025) 25% full
GTT       table is (    2700 of    270000) 1% full
SCRSET    table is (      50 of      255) 20% full
AS        table is (         5 of      250) 2% full
ASP       table is (         5 of      4000) 2% full
RTEKEY    table is (         2 of      2500) 1% full
IPAPSOCK  table is (     324 of      4000) 8% full
VFLXRN    table is (         1 of    10000) 1% full
VFLXCD    table is (         1 of      4950) 1% full
VFLXVID   table is (         1 of      1000) 1% full
NPP-AS    table is (         6 of      1024) 1% full
NPP-SRS   table is (         0 of      8192) 0% full
```

;

Support for 125 IPGW Cards

The Support for 125 IPGW Cards enhancement allows the EAGLE 5 ISS to support up to 125 SSED CM cards, E5-ENET cards, or a mixture of SSED CM and E5-ENET cards that are running the **ss7ipgw** or **ipgwi** application.

The **ent/init/rept-stat-card** commands are enhanced to support 125 IPGW cards. For complete descriptions of these commands, refer to the *Commands Manual* for the EAGLE 5 ISS Release 40.1 documentation set.

Table Increase for NPFLGRST

The NPFLGRST CSL table is increased to allow 1024 entries.

Update to the chg/rtrv-ppsopts Commands

The **chg-ppsopts** command is enhanced to allow the subsystem number to be provisioned with point code and routing indicator information. This enhancement allows a full global title translation to be provisioned for the connected Prepaid SMS (PPSMS) nodes. The **rtrv-ppsopts** command is enhanced to display the subsystem number. For complete descriptions of these commands, refer to the *Commands Manual* for the EAGLE 5 ISS Release 40.1 documentation set.

The following examples display output for the **rtrv-ppsopts** command. Example 1 displays the output when PPSMS options for all prepaid types are requested.

rtrv-ppsopts

tekelecstp 08-12-17 15:11:22 EST EAGLE 40.1.0

Prepaid SMS Options

BPARTYCHK	= ON		
PPT	PCA/PCI/PCN	SSN	RI

1	PCI: 1-001-1	1	GT
2	PCI: 1-001-2	1	SSN
3	-----	NONE	GT
4	-----	NONE	GT
5	-----	NONE	GT
6	-----	NONE	GT
7	-----	NONE	GT
8	-----	NONE	GT
9	-----	NONE	GT
10	-----	NONE	GT
11	-----	NONE	GT
12	-----	NONE	GT
13	-----	NONE	GT
14	-----	NONE	GT
15	-----	NONE	GT
16	-----	NONE	GT
17	-----	NONE	GT
18	-----	NONE	GT
19	-----	NONE	GT
20	-----	NONE	GT
21	-----	NONE	GT
22	-----	NONE	GT
23	-----	NONE	GT
24	-----	NONE	GT
25	-----	NONE	GT
26	-----	NONE	GT
27	-----	NONE	GT
28	-----	NONE	GT
29	-----	NONE	GT
30	-----	NONE	GT
31	-----	NONE	GT
32	-----	NONE	GT

GTA

1110

1111

NONE


```
NONE
```

```
;
```

Example 3 displays the output when PPSMS options are requested for a specific type.

```
rtrv-ppsopts:ppt=1
tekelecstp 08-12-17 15:07:01 EST EAGLE 40.1.0

Prepaid SMS Options
-----
BPARTYCHK          = ON
PPT                PCA/PCI/PCN          SSN    RI
---              -----
1                 PCI:    1-001-1          1      GT
```

```
;
```

Example 4 displays the output when PPSMS options are requested for a specific type, and the FGTTLS feature is enabled.

```
rtrv-ppsopts:ppt=2
tekelecstp 08-12-17 15:07:01 EST EAGLE 40.1.0

Prepaid SMS Options
-----
BPARTYCHK          = ON
PPT                PCA/PCI/PCN          SSN    RI      Set ID
---              -----
2                 PCI:    1-001-1          1      SSN    DFLT
```

```
;
```

Update to the *msutrace* Command

The help text for the **msutrace** command is enhanced to indicate that a valid filter key must be specified before the **msutrace -a chgfilter -m** command is accepted. For a complete description of this command, refer to the *Commands Manual* for the EAGLE 5 ISS Release 40.1 documentation set.

The following examples display help text output for the **msutrace** command.

Example 1 displays the output in brief mode.

```
pass:loc=1105:cmd="msutrace -h"
Command Accepted - Processing

;
tekelecstp 08-12-11 10:31:06 EST EAGLE 40.1.0
pass:loc=1105:cmd="msutrace -h"
Command entered at terminal #1.
;
tekelecstp 08-12-11 10:31:06 EST EAGLE 40.1.0
PASS: Command sent to card
;
tekelecstp 08-12-11 10:31:06 EST EAGLE 40.1.0

Usage: msutrace [-a action_cmd] [-g get_cmd]
              [ [-x rc] | [-k rtkey] [-p pctype] [-t keytype]] ]
```

Feature Notice

```
[-m mode] [-h [full]]

Options:
-a  action_cmd: an Action Command
-g  get_cmd: a Get Command
-x  routing key report using routing context
-k  routing key report using MTP3 parameters
    rtkey :: ([dpc][:si][:opc | :ssn][:cics][:cice])
-p  pctype :: (ANSI, ITUI, ITUN, ITUN24, ITUIS, ITUNS)
-t  routing key type
    keytype :: (<full>, partial, default)
-m  mode: mode for qualifying MSUs captured=[normerr | all]
-h  displays this message (brief or full)

get_cmd:      [config | trace]
config        config
trace         trace

action_cmd:   [acttrace | chgfilter | clrtrace | dacttrace]
acttrace      acttrace
chgfilter     chgfilter [<fltrkey>] | [-m mode] (at least 1 required)
              (valid fltrkey should be present either before
              specifying mode or in the same command)

clrtrace      clrtrace
dacttrace     dacttrace

<fltrkey>:    [ [-x rc] | [-k [rtkey]] [-p pctype] [-t keytype]] ]
              (see 'msutrace -h full' for complete description)

MSUTRACE command complete
;
```

Example 2 displays the output in full mode.

```
pass:loc=1105:cmd="msutrace -h full"
```

```
Command Accepted - Processing
```

```
tekelecstp 08-12-11 10:31:06 EST EAGLE 40.1.0
pass:loc=1105:cmd="msutrace -h full"
Command entered at terminal #1.

tekelecstp 08-12-11 10:31:06 EST EAGLE 40.1.0
PASS: Command sent to card

tekelecstp 08-12-11 10:31:06 EST EAGLE 40.1.0

Usage: msutrace [-a action_cmd] [-g get_cmd]
              [ [-x rc] | [-k [rtkey]] [-p pctype] [-t keytype]] ]
              [-m mode] [-h [full]]

Options:
-a  action_cmd: an Action Command
-g  get_cmd: a Get Command
-x  routing key report using routing context
-k  routing key report using MTP3 parameters
    rtkey :: ([dpc][:si][:opc | :ssn][:cics][:cice])
-p  pctype :: (ANSI, ITUI, ITUN, ITUN24, ITUIS, ITUNS)
-t  routing key type
    keytype :: (<full>, partial, default)
-m  mode: mode for qualifying MSUs captured=[normerr | all]
-h  displays this message (brief or full)

get_cmd:      [config | trace]
config        Display the current MSUTRACE settings:
              trace On/Off status, filter settings, and
              trace buffers used/available.
              ex:  msutrace -g config

trace         Display content of trace buffers containing captured
```

```

MSU data
ex: msutrace -g trace

action_cmd: [acttrace | chgfilter | clrtrace | dacttrace]
acttrace   Activate (turn-on) MSU-tracing.
ex: msutrace -a acttrace

chgfilter  chgfilter [<fltrkey>] | [-m mode] (at least 1 required)
           (valid fltrkey should be present either before
           specifying mode or in the same command)
Change filter used to qualify which MSUs are placed in
trace buffers:
Flow of command should be
Either entering filter key before specifying mode:
ex: To trace MSUs based on MSU content:
    msutrace -a chgfilter <fltrkey>
ex: To only trace MSUs with Normalization errors:
    msutrace -a chgfilter -m normerr
ex: To trace all MSUs regardless of error conditions:
    msutrace -a chgfilter -m all
Or entering filter key along with mode:
ex: To trace MSUs based on MSU content
    with Normalization errors:
    msutrace -a chgfilter <fltrkey> -m normerr
ex: To trace MSUs based on MSU content
    regardless of error conditions:
    msutrace -a chgfilter <fltrkey> -m all

clrtrace   Clear all data from trace buffers.
ex: msutrace -a clrtrace

dacttrace  Deactivate (turn-off) MSU-tracing.
ex: msutrace -a dacttrace

```

-k option details:

Use the -p option along with -k to specify the SS7 network domain and point code format for the network. The SS7IPGW default pctype is ANSI. The IPGWI default pctype is ITUI.

Network	PC Format	Notes
ANSI	N-C-M	
ITUN	N	Non-Spare ITU National, no group code
ITUN	N-GC	Non-Spare ITU National with group code
ITUI	Z-A-I	Non-Spare ITU International
ITUN24	N-C-M	Non-Spare ITU National, 24-bits
ITUNS	N	Spare ITU National, no group code
ITUNS	N-GC	Spare ITU National with group code
ITUIS	Z-A-I	Spare ITU International

Use the -t option along with -k to specify certain MTP3 and user part MSU fields as wildcards for the routing key.

SS7 Traffic Partition	RTKEY	Parameter	Example
Any User Part to DPC 1-1-1	-k 1-1-1	-t partial	
SCCP to DPC 1-1-1	-k 1-1-1:3	-t partial	
ISUP to DPC 1-1-1	-k 1-1-1:5	-t partial	
TUP to DPC 1-1-1	-k 1-1-1:4	-t partial	
QBICC to DPC 1-1-1	-k 1-1-1:13	-t partial	
SI [0-2,6-12,14,15] to DPC 1-1-1	-k 1-1-1:SI		
SCCP SSN 5 to DPC 1-1-1	-k 1-1-1:3:5		
ISUP to DPC 1-1-1 from OPC 2-2-2	-k 1-1-1:5:2-2-2	-t partial	
TUP to DPC 1-1-1 from OPC 2-2-2	-k 1-1-1:4:2-2-2	-t partial	
QBICC to DPC 1-1-1 from OPC 2-2-2	-k 1-1-1:13:2-2-2	-t partial	
ISUP CIC 1 to 1-1-1 from 2-2-2	-k 1-1-1:5:2-2-2:1		
TUP CIC 1 to 1-1-1 from 2-2-2	-k 1-1-1:4:2-2-2:1		
QBICC CIC 1 to 1-1-1 from 2-2-2	-k 1-1-1:13:2-2-2:1		
ISUP CIC 0-5 to 1-1-1 from 2-2-2	-k 1-1-1:5:2-2-2:0:5		
TUP CIC 0-5 to 1-1-1 from 2-2-2	-k 1-1-1:4:2-2-2:0:5		

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```
QBICC CIC 0-5 to 1-1-1 from 2-2-2 -k 1-1-1:13:2-2-2:0:5
Default Routing Key -k -t default
```

```
tekelecstp 08-12-11 10:31:06 EST EAGLE 40.1.0
```

```
MSUTRACE command complete
```

Update to the Prepaid SMS Intercept Ph1 Feature

Support for a temporary FAK for the Prepaid SMS Intercept Ph1 feature is removed. The FAK for part number 893-0067-01 is the only supported FAK.

Update to the rept-stat-sccp Command

The **rept-stat-sccp** command is updated to display CPU usage details for the LNP subsystem when an LNP feature is enabled. For a complete description of this command, refer to the *Commands Manual* for the EAGLE 5 ISS Release 40.1 documentation set.

The following example displays output for the **rept-stat-sccp** command when the LNP, PLNP, TLNP, and WNP features are turned on.

rept-stat-sccp

```
tklcl1190601 09-01-08 16:31:14 EST EAGLE5 40.1.0
SCCP SUBSYSTEM REPORT IS-NR Active -----
SCCP ALARM STATUS = No Alarms
LNP SUBSYSTEM REPORT IS-NR Active -----
ASSUMING MATE'S LOAD
LNP: SSN STATUS = Allowed MATE SSN STATUS = Prohibited
LNP ALARM STATUS = No Alarms

SCCP Cards Configured= 7 Cards IS-NR= 7
System Daily Peak SCCP Load 0 TPS 08-05-18 00:00:17
System Overall Peak SCCP Load 2908 TPS 08-05-07 13:28:36
System Total SCCP Capacity 11900 TPS (11900 max SCCP Capacity)
System SCCP Capacity Calc. Method (N)
System TPS Alarm Threshold 9520 TPS ( 80% System N SCCP Capacity)

CARD VERSION PST SST AST MSU CPU
                           USAGE USAGE
-----
1205 P 126-027-000 IS-NR Active ----- 0% 5%
1317 126-027-000 IS-NR Active ----- 0% 5%
2213 126-027-000 IS-NR Active ----- 0% 5%
2215 126-027-000 IS-NR Active ----- 0% 6%
2217 126-027-000 IS-NR Active ----- 0% 5%
2317 126-027-000 IS-NR Active ----- 0% 5%
1105 126-027-000 IS-NR Active ----- 0% 6%
-----
SCCP Service Average MSU Capacity = 0% Average CPU Capacity = 5%

AVERAGE CPU USAGE PER SERVICE:
GTT = 0%
LNPQR = 0% LNPQS = 0%
WNPQS = 0%
TLNP = 0%
PLNPQS = 0%

TOTAL SERVICE STATISTICS:
SERVICE SUCCESS ERRORS FAIL REROUTE\ FORWARD TOTAL
RATIO WARNINGS TO GTT
GTT: 0 0 0% - - 0
LNPQR: 0 0 0% - - 0
LNPQS: 0 0 0% - - 0
WNPQS: 0 0 0% - - 0
TLNP: 0 0 0% - - 0
```

```
PLNPQS:          0          0          0%          -          -          0
```

```
Command Completed.
```

Update to the *rtrv-ls* Command

The format for the **rtrv-ls** command when an ANSI linkset is used and the Incoming SLS Bit Rotation feature is enabled is enhanced for greater readability. For a complete description of this command, refer to the *Commands Manual* for the EAGLE 5 ISS Release 40.1 documentation set. The following output example displays the format for the **rtrv-ls** command.

rtrv-ls:lsn=ls6

```
rlghncxa03w 09-02-27 11:43:04 GMT EAGLE 40.1.0

          L3T SLT          GWS GWS GWS
LSN      APCA  (SS7)  SCRN SET SET BEI LST LNKS ACT MES DIS SLSCI NIS
ls06     002-007-008  scr4 1  4  no  a  0  on  off off no  on

          SPCA          CLLI          TFATCABMLQ MTPRSE ASL8
-----          -----          -
          ls06c1li          1          no  no

RANDSLS
off

ISLSRSB
1

IPSG  IPGWAPC  GTTMODE          CGGTMOD
no    no      CdPA          no

Link set table is ( 20 of 1024) 2% full
```

Update to the *rtrv-rte* Command

The output of the **rtrv-rte** command updated to increase readability. These updates include:

- Displaying the linkset in the ALIASN/N24 column
- Displaying the Exception Route and relative cost in the same column
- Reversing the order in which the adjacent point code and CLLI information is displayed.

An example showing the updated output format when all routes are requested is shown in the [Commands](#) section for the GTT LS ITU feature. Additional examples are shown below. For a complete description of this command, refer to the *Commands Manual* for the EAGLE 5 ISS Release 40.1 documentation set.

Example 1 displays the output when a destination code is requested.

rtrv-rte:dpc=40-1-***

```
eagle10115 08-12-09 10:00:37 EST EAGLE 40.1.0

DPCA          ALIASI          ALIASN/N24  RTX  CLLI
          APCA
040-001-001  -----          -----          No  noncluster1
          lsn01          10  001-001-001
040-001-002  -----          -----          No  noncluster2
          lsn01          10  001-001-001
```

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Example 2 displays the output when a linkset is requested.

rtrv-rte:lsn=e2e1

```
eagle10115 08-12-09 10:00:37 EST EAGLE 40.1.0
LSN          DPCA          RC
e2e1         001-001-000   10
              001-101-001   10
              004-101-001   20
              100-100-*    10
              100-100-001  10
;
```

Example 3 displays the output when ANSI point codes are requested.

rtrv-rte:pctype=ansi

```
eagle10115 08-12-09 10:00:37 EST EAGLE 40.1.0

DPCA          ALIASI          ALIASN/N24      RTX   CLLI
              ALIASI          LSN             RC    APCA
001-001-000   -----        -----        No   stp1
              e2e1           10             001-001-000
003-001-000   -----        -----        No   mstp
              e2e3           10             003-001-000
004-001-000   -----        -----        No   stp4
              e2e4           10             004-001-000
007-001-000   -----        -----        No   stp7
              e2e7           10             007-001-000
002-101-001   -----        -----        No   ssp201
              e2m1s1        10             002-101-001
              e2e3           20             003-001-000
002-102-001   -----        -----        No   ssp202
              e2m1s2        10             002-102-001
              e2e3           20             003-001-000
001-101-001   -----        -----        No   ssp101
              e2e1           10             001-001-000
              e2e4           20             004-001-000
              e2e3           30             003-001-000
003-101-001   -----        -----        No   ssp301
              e2m1s3        10             003-101-001
              e2e3           20             003-001-000
004-101-001   -----        -----        No   ssp401
              e2e4           10             004-001-000
              e2e1           20             001-001-000
007-101-001   -----        -----        No   ssp701
              e2e7           10             007-001-000
100-100-*     -----        -----        No   cluster1
              e2e1           10             001-001-000
              e2e3           20             003-001-000
100-100-001   -----        -----        No   -----
              e2e1           10             001-001-000
200-200-*     -----        -----        No   cluster2
005-006-001   -----        005-006-001   No   -----
001-001-001   -----        -----        No   dstn01
              lsn01          10             001-001-001
p-001-001-001 -----        -----        No   dstn01p
001-001-002   1-001-2       -----        No   dstn02
              lsn02          10             001-001-002
p-001-001-002 1-011-2       -----        No   dstn02p
001-001-003   s-1-001-3     -----        No   dstn03
              lsn03          10             001-001-003
p-001-001-003 s-1-011-3     -----        No   dstn03p
001-001-004   -----        0257-1-0-0-aa No   dstn04
              lsn04          10             001-001-004
p-001-001-004 -----        0132-1-0-0-aa No   dstn04p
001-070-001   -----        -----        No   tgtansi001
              lsn01          10             001-001-001
              lsn02          20             001-001-002
              lsn03          30             001-001-003
              lsn04          40             001-001-004
001-001-005   -----        s-0257-1-0-1-aa No   dstn05
              lsn05          10             001-001-005
```

p-001-001-005	-----	s-0132-1-0-1-aa	No	dstn05p
001-001-006	-----	001-001-006	No	dstn06
		lsn06	10	001-001-006
p-001-001-006	-----	001-011-006	No	dstn06p
001-001-007	1-001-7	0257-1-1-1-aa	No	dstn07
		lsn07	10	001-001-007
p-001-001-007	1-011-7	0132-1-1-1-aa	No	dstn07p
001-002-000	1-002-0	s-0258-0-0-0-aa	No	dstn08
		lsn08	10	001-002-000
p-001-002-000	1-012-0	s-0133-0-0-0-aa	No	dstn08p
001-070-002	-----	-----	No	tgtansi002
		lsn05	10	001-001-005
		lsn06	20	001-001-006
		lsn07	30	001-001-007
		lsn08	40	001-002-000
001-002-001	s-1-002-1	0258-0-0-1-aa	No	dstn09
		lsn09	10	001-002-001
p-001-002-001	s-1-012-1	0133-0-0-1-aa	No	dstn09p
001-002-002	s-1-002-2	s-0258-0-1-0-aa	No	dstn10
		lsn10	10	001-002-002
p-001-002-002	s-1-012-2	s-0133-0-1-0-aa	No	dstn10p
001-002-003	1-002-3	001-002-003	No	dstn11
		lsn11	10	001-002-003
p-001-002-003	1-012-3	001-012-003	No	dstn11p
001-002-004	s-1-002-4	001-002-004	No	dstn12
		lsn12	10	001-002-004
p-001-002-004	s-1-012-4	001-012-004	No	dstn12p
001-070-003	-----	-----	No	tgtansi003
		lsn09	10	001-002-001
		lsn10	20	001-002-002
		lsn11	30	001-002-003
		lsn12	40	001-002-004
200-002-001	-----	-----	Yes	rtxroute001
		lsn12	10	001-002-004
001-015-001	s-1-015-1	0271-0-0-1-aa	No	gx25dstn001
001-015-002	1-015-2	-----	No	gx25dstn002
		lsngx25a01	10	001-015-001
001-015-003	-----	s-0271-0-1-1-aa	No	gx25dstn003
002-015-001	-----	-----	No	gx25dstn004
002-015-002	-----	-----	No	gx25dstn005
002-015-003	-----	-----	No	gx25dstn006
002-015-004	-----	-----	No	gx25dstn007
		lsngx25b01	10	002-015-002
040-001-*	-----	-----	No	myncaibeno
040-010-*	-----	-----	No	myncaibeno2
010-**-*	-----	-----	No	-----
040-**-*	-----	-----	No	-----
040-001-001	-----	-----	No	noncluster1
040-001-002	-----	-----	No	noncluster2

;

Example 4 displays the output when the **full** mode is requested.

rtrv-rte:mode=full

eagle10115 08-12-09 10:00:37 EST EAGLE 40.1.0

DPCA	ALIASI	ALIASN/N24 LSN	RTX RC	CLLI APCA
001-001-000	-----	-----	No	stp1
		e2e1	10	001-001-000
003-001-000	-----	-----	No	mstp
		e2e3	10	003-001-000
004-001-000	-----	-----	No	stp4
		e2e4	10	004-001-000
007-001-000	-----	-----	No	stp7
		e2e7	10	007-001-000
002-101-001	-----	-----	No	ssp201
		e2m1s1	10	002-101-001
		e2e3	20	003-001-000
002-102-001	-----	-----	No	ssp202
		e2m1s2	10	002-102-001

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		e2e3	20	003-001-000
001-101-001	-----	-----	No	ssp101
		e2e1	10	001-001-000
		e2e4	20	004-001-000
		e2e3	30	003-001-000
003-101-001	-----	-----	No	ssp301
		e2m1s3	10	003-101-001
		e2e3	20	003-001-000
004-101-001	-----	-----	No	ssp401
		e2e4	10	004-001-000
		e2e1	20	001-001-000
007-101-001	-----	-----	No	ssp701
		e2e7	10	007-001-000
100-100-*	-----	-----	No	cluster1
		e2e1	10	001-001-000
		e2e3	20	003-001-000
100-100-001	-----	-----	No	-----
		e2e1	10	001-001-000
200-200-*	-----	-----	No	cluster2
005-006-001	-----	005-006-001	No	-----
001-001-001	-----	-----	No	dstn01
		lsn01	10	001-001-001
p-001-001-001	-----	-----	No	dstn01p
001-001-002	1-001-2	-----	No	dstn02
		lsn02	10	001-001-002
p-001-001-002	1-011-2	-----	No	dstn02p
001-001-003	s-1-001-3	-----	No	dstn03
		lsn03	10	001-001-003
p-001-001-003	s-1-011-3	-----	No	dstn03p
001-001-004	-----	02060-aa	No	dstn04
		lsn04	10	001-001-004
p-001-001-004	-----	01060-aa	No	dstn04p
001-070-001	-----	-----	No	tgtansi001
		lsn01	10	001-001-001
		lsn02	20	001-001-002
		lsn03	30	001-001-003
		lsn04	40	001-001-004
001-001-005	-----	s-02061-aa	No	dstn05
		lsn05	10	001-001-005
p-001-001-005	-----	s-01061-aa	No	dstn05p
001-001-006	-----	001-001-006	No	dstn06
		lsn06	10	001-001-006
p-001-001-006	-----	001-011-006	No	dstn06p
001-001-007	1-001-7	02063-aa	No	dstn07
		lsn07	10	001-001-007
p-001-001-007	1-011-7	01063-aa	No	dstn07p
001-002-000	1-002-0	s-02064-aa	No	dstn08
		lsn08	10	001-002-000
p-001-002-000	1-012-0	s-01064-aa	No	dstn08p
001-070-002	-----	-----	No	tgtansi002
		lsn05	10	001-001-005
		lsn06	20	001-001-006
		lsn07	30	001-001-007
		lsn08	40	001-002-000
001-002-001	s-1-002-1	02065-aa	No	dstn09
		lsn09	10	001-002-001
p-001-002-001	s-1-012-1	01065-aa	No	dstn09p
001-002-002	s-1-002-2	s-02066-aa	No	dstn10
		lsn10	10	001-002-002
p-001-002-002	s-1-012-2	s-01066-aa	No	dstn10p
001-002-003	1-002-3	001-002-003	No	dstn11
		lsn11	10	001-002-003
p-001-002-003	1-012-3	001-012-003	No	dstn11p
001-002-004	s-1-002-4	001-002-004	No	dstn12
		lsn12	10	001-002-004
p-001-002-004	s-1-012-4	001-012-004	No	dstn12p
001-070-003	-----	-----	No	tgtansi003
		lsn09	10	001-002-001
		lsn10	20	001-002-002
		lsn11	30	001-002-003
		lsn12	40	001-002-004
200-002-001	-----	-----	Yes	rtxroute001

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		lsn12	10	001-002-004
	OPCA			
	001-001-001	lsn11	15	001-002-003
	001-002-001	lsn10	99	001-002-002
	CIC - ECIC			
	0 9	lsn10	1	001-002-002
	10 16383	lsn10	2	001-002-002
	SI			
	3	lsn12	1	001-002-004
	9	lsn12	21	001-002-004
	11	lsn12	9	001-002-004
001-015-001	s-1-015-1	02169-aa	No	gx25dstn001
001-015-002	1-015-2	-----	No	gx25dstn002
		lsngx25a01	10	001-015-001
001-015-003	-----	s-02171-aa	No	gx25dstn003
002-015-001	-----	-----	No	gx25dstn004
002-015-002	-----	-----	No	gx25dstn005
002-015-003	-----	-----	No	gx25dstn006
002-015-004	-----	-----	No	gx25dstn007
		lsngx25b01	10	002-015-002
040-001-*	-----	-----	No	myncaibeno
		lsn01	10	001-001-001
040-010-*	-----	-----	No	myncaibeno2
010-**-*	-----	-----	No	-----
040-**-*	-----	-----	No	-----
		lsn02	15	001-001-002
040-001-001	-----	-----	No	noncluster1
		lsn01	10	001-001-001
040-001-002	-----	-----	No	noncluster2
		lsn01	10	001-001-001
DPCI	ALIASA	ALIASN/N24	RTX	CLLI
		LSN	RC	APCI
s-4-002-0	010-001-001	s-08228-aa	No	-----
2-010-0	-----	-----	No	dstn13
		lsn13	10	2-010-0
p-2-010-0	-----	-----	No	dstn13p
2-010-1	002-010-001	-----	No	dstn14
		lsn14	10	2-010-1
p-2-010-1	002-100-001	-----	No	dstn14p
2-010-2	-----	04178-aa	No	dstn15
		lsn15	10	2-010-2
p-2-010-2	-----	08178-aa	No	dstn15p
2-010-3	-----	s-04179-aa	No	dstn16
		lsn16	10	2-010-3
p-2-010-3	-----	s-08179-aa	No	dstn16p
2-070-1	-----	-----	No	tgtitui001
		lsn13	10	2-010-0
		lsn14	20	2-010-1
		lsn15	30	2-010-2
		lsn16	40	2-010-3
2-010-4	-----	002-010-004	No	dstn17
		lsn17	10	2-010-4
p-2-010-4	-----	002-100-004	No	dstn17p
2-010-5	002-010-005	04181-aa	No	dstn18
		lsn18	10	2-010-5
p-2-010-5	002-100-005	08181-aa	No	dstn18p
2-010-6	002-010-006	s-04182-aa	No	dstn19
		lsn19	10	2-010-6
p-2-010-6	002-100-006	s-08182-aa	No	dstn19p
2-010-7	002-010-007	002-010-007	No	dstn20
		lsn20	10	2-010-7
p-2-010-7	002-100-007	002-100-007	No	dstn20p
2-070-2	-----	-----	No	tgtitui002
		lsn17	10	2-010-4
		lsn18	20	2-010-5
		lsn19	30	2-010-6
		lsn20	40	2-010-7

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s-2-020-0	-----	-----	No	dstn21
		lsn21	10	s-2-020-0
ps-2-020-0	-----	-----	No	dstn21p
s-2-020-1	002-020-001	-----	No	dstn22
		lsn22	10	s-2-020-1
ps-2-020-1	002-200-001	-----	No	dstn22p
s-2-020-2	-----	04258-aa	No	dstn23
		lsn23	10	s-2-020-2
ps-2-020-2	-----	08258-aa	No	dstn23p
s-2-020-3	-----	s-04259-aa	No	dstn24
		lsn24	10	s-2-020-3
ps-2-020-3	-----	s-08259-aa	No	dstn24p
s-2-070-3	-----	-----	No	tgtitui003
		lsn21	10	s-2-020-0
		lsn22	20	s-2-020-1
		lsn23	30	s-2-020-2
		lsn24	40	s-2-020-3
s-2-020-4	-----	002-020-004	No	dstn25
		lsn25	10	s-2-020-4
ps-2-020-4	-----	002-200-004	No	dstn25p
s-2-020-5	002-020-005	04261-aa	No	dstn26
		lsn26	10	s-2-020-5
ps-2-020-5	-----	-----	No	dstn26p
s-2-020-6	002-020-006	s-04262-aa	No	dstn27
		lsn27	10	s-2-020-6
ps-2-020-6	002-200-005	08261-aa	No	dstn27p
s-2-020-7	002-020-007	002-020-007	No	dstn28
		lsn28	10	s-2-020-7
ps-2-020-7	002-200-007	002-200-007	No	dstn28p
s-2-070-4	-----	-----	No	tgtitui004
		lsn25	10	s-2-020-4
		lsn26	20	s-2-020-5
		lsn27	30	s-2-020-6
		lsn28	40	s-2-020-7
s-3-070-3	-----	-----	No	tgtitui007
		lsn35	10	s-3-040-2
		lsn36	20	s-3-040-3
		lsn37	30	s-3-040-4
s-3-070-4	-----	-----	No	tgtitui008
		lsn38	10	s-3-040-5
		lsn39	20	s-3-040-6
		lsn40	30	s-3-040-7
s-2-029-6	002-029-006	s-04269-aa	Yes	rtxroute002
		lsn26	5	s-2-020-5
	OPCI			
	3-030-0	lsn27	28	s-2-020-6
	CIC - ECIC			
	34 44	lsn27	6	s-2-020-6
	45 55	lsn27	16	s-2-020-6
	SI			
	3	lsn27	7	s-2-020-6
	15	lsn27	14	s-2-020-6
DPCI	ALIASI	ALIASN/N24	RTX	CLLI
		LSN	RC	APCI
3-030-0	s-3-030-0	-----	No	dstn29
		lsn29	10	3-030-0
p-3-030-0	s-3-031-0	-----	No	dstn29p
3-030-1	s-3-030-1	06385-aa	No	dstn30
		lsn30	10	3-030-1
p-3-030-1	s-3-031-1	07385-aa	No	dstn30p
3-030-2	s-3-030-2	s-06386-aa	No	dstn31
		lsn31	10	3-030-2
p-3-030-2	s-3-031-2	s-07386-aa	No	dstn31p
3-070-1	s-3-070-1	-----	No	tgtitui005
		lsn29	10	3-030-0
		lsn30	20	3-030-1
		lsn31	30	3-030-2

Feature Notice

3-030-3	s-3-030-3	003-030-003	No	dstn32
		lsn32	10	3-030-3
p-3-030-3	s-3-031-3	003-031-003	No	dstn32p
3-070-2	s-3-070-2	-----	No	tgtitui006
		lsn32	10	3-030-3
		lsn33	20	3-030-4
		lsn34	30	3-030-5
s-3-040-2	3-040-2	-----	No	dstn35
		lsn35	10	s-3-040-2
ps-3-040-2	3-041-2	-----	No	dstn35p
s-3-040-3	3-040-3	06467-aa	No	dstn36
		lsn36	10	s-3-040-3
ps-3-040-3	3-041-3	07467-aa	No	dstn36p
s-3-040-4	3-040-4	s-06468-aa	No	dstn37
		lsn37	10	s-3-040-4
ps-3-040-4	3-041-4	s-07468-aa	No	dstn37p
s-3-040-5	3-040-5	003-040-005	No	dstn38
		lsn38	10	s-3-040-5
ps-3-040-5	3-041-5	003-041-005	No	dstn38p
DPCI	ALIASN	ALIASN	RTX	CLLI
		LSN	RC	APCI
3-030-4	s-06388-aa	06388-aa	No	dstn33
		lsn33	10	3-030-4
p-3-030-4	s-07388-aa	07388-aa	No	dstn33p
3-030-5	06389-aa	s-06389-aa	No	dstn34
		lsn34	10	3-030-5
p-3-030-5	07389-aa	s-07389-aa	No	dstn34p
s-3-040-6	s-06471-aa	06471-aa	No	dstn39
		lsn39	10	s-3-040-6
ps-3-040-6	s-07471-aa	07471-aa	No	dstn39p
s-3-040-7	06472-aa	s-06472-aa	No	dstn40
		lsn40	10	s-3-040-7
ps-3-040-7	07472-aa	s-07472-aa	No	dstn40p
DPCN	ALIASA	ALIASI	RTX	CLLI
		LSN	RC	APCN
06157-aa	020-005-002	-----	No	-----
08192-aa	-----	-----	No	dstn41
		lsn41	10	08192-aa
p-08192-aa	-----	-----	No	dstn41p
08193-aa	004-000-001	-----	No	dstn42
		lsn42	10	08193-aa
p-08193-aa	004-200-001	-----	No	dstn42p
08194-aa	-----	4-000-2	No	dstn43
		lsn43	10	08194-aa
p-08194-aa	-----	4-040-2	No	dstn43p
08195-aa	-----	s-4-000-3	No	dstn44
		lsn44	10	08195-aa
p-08195-aa	-----	s-4-040-3	No	dstn44p
08753-aa	-----	-----	No	tgtitun001
		lsn41	10	08192-aa
		lsn42	20	08193-aa
		lsn43	30	08194-aa
		lsn44	30	08195-aa
08196-aa	004-000-004	4-000-4	No	dstn45
		lsn45	10	08196-aa
p-08196-aa	004-200-004	4-040-4	No	dstn45p
08197-aa	004-000-005	s-4-000-5	No	dstn46
		lsn46	10	08197-aa
p-08197-aa	004-200-005	s-4-040-5	No	dstn46p
08754-aa	-----	-----	No	tgtitun002
		lsn45	10	08196-aa
		lsn46	20	08197-aa
		lsn47	30	08198-aa
		lsn48	30	08199-aa
s-08272-aa	-----	-----	No	dstn49
		lsn49	10	s-08272-aa
ps-08272-aa	-----	-----	No	dstn49p
s-08273-aa	004-010-001	-----	No	dstn50
		lsn50	10	s-08273-aa
ps-08273-aa	004-200-010	-----	No	dstn50p

Feature Notice

s-08274-aa	-----	4-010-2	No	dstn51
		lsn51	10	s-08274-aa
ps-08274-aa	-----	4-050-2	No	dstn51p
s-08275-aa	-----	s-4-010-3	No	dstn52
		lsn52	10	s-08275-aa
ps-08275-aa	-----	s-4-050-3	No	dstn52p
s-08755-aa	-----	-----	No	tgtitun003
		lsn49	10	s-08272-aa
		lsn50	20	s-08273-aa
		lsn51	30	s-08274-aa
		lsn52	30	s-08275-aa
s-08276-aa	004-010-004	4-010-4	No	dstn53
		lsn53	10	s-08276-aa
ps-08276-aa	004-200-040	4-050-4	No	dstn53p
s-08277-aa	004-010-005	s-4-010-5	No	dstn54
		lsn54	10	s-08277-aa
ps-08277-aa	004-200-050	s-4-050-5	No	dstn54p
s-08756-aa	-----	-----	No	tgtitun004
		lsn53	10	s-08276-aa
		lsn54	20	s-08277-aa
		lsn55	30	s-08278-aa
		lsn56	30	s-08279-aa
08757-aa	-----	-----	No	tgtitun005
		lsn57	10	12688-aa
		lsn58	20	12689-aa
		lsn59	30	12690-aa
s-08758-aa	-----	-----	No	tgtitun006
		lsn60	10	s-12691-aa
		lsn61	20	s-12692-aa
		lsn62	30	s-12693-aa
08199-fr	-----	s-4-006-1	No	dstn48dupfr
08199-tk	-----	4-006-2	No	dstn48duptk
08198-nz	-----	-----	No	dstn47dupnz
s-08273-fr	-----	4-006-3	No	dstn50dupfr
DPCN	ALIASI	ALIASI	RTX	CLLI
		LSN	RC	APCN
08198-aa	s-4-000-6	4-000-6	No	dstn47
		lsn47	10	08198-aa
p-08198-aa	s-4-040-6	4-040-6	No	dstn47p
08199-aa	4-000-7	s-4-000-7	No	dstn48
		lsn48	10	08199-aa
p-08199-aa	4-040-7	s-4-040-7	No	dstn48p
s-08278-aa	s-4-010-6	4-010-6	No	dstn55
		lsn55	10	s-08278-aa
ps-08278-aa	s-4-050-6	4-050-6	No	dstn55p
s-08279-aa	4-010-7	s-4-010-7	No	dstn56
		lsn56	10	s-08279-aa
ps-08279-aa	4-050-7	s-4-050-7	No	dstn56p
s-08379-aa	s-4-058-7	4-058-7	Yes	rtxrout003
		lsn55	80	s-08278-aa
	OPCN			
	s-08278-aa	lsn62	8	s-12693-aa
	CIC - ECIC			
	99 100	lsn62	9	s-12693-aa
	999 1989	lsn62	99	s-12693-aa
	SI			
	4	lsn56	29	s-08279-aa
	14	lsn56	44	s-08279-aa
08198-fr	s-4-005-7	4-005-7	No	dstn47dupfr
08198-tk	4-006-0	s-4-006-0	No	dstn47duptk
DPCN	ALIASN	ALIASI	RTX	CLLI
		LSN	RC	APCN
12688-aa	s-12688-aa	-----	No	dstn57
		lsn57	10	12688-aa
p-12688-aa	s-13688-aa	-----	No	dstn57p
12689-aa	s-12689-aa	6-050-1	No	dstn58

```

p-12689-aa      s-13689-aa      lsn58      10      12689-aa
12690-aa        s-12690-aa      6-060-1    No      dstn58p
                s-12690-aa      s-6-050-2  No      dstn59
                lsn59          10      12690-aa
p-12690-aa      s-13690-aa      s-6-060-2  No      dstn59p
s-12691-aa      12691-aa      -----    No      dstn60
                lsn60          10      s-12691-aa
ps-12691-aa     13691-aa      -----    No      dstn60p
s-12692-aa     12692-aa      6-050-4    No      dstn61
                lsn61          10      s-12692-aa
ps-12692-aa     13692-aa      6-060-4    No      dstn61p
s-12693-aa     12693-aa      s-6-050-5  No      dstn62
                lsn62          10      s-12693-aa
ps-12693-aa     13693-aa      s-6-060-5  No      dstn62p
s-08272-fr      08300-fr      -----    No      dstn49dupfr
s-08272-tk      08300-tk      4-006-7    No      dstn49dupTk

```

```

DPCN24          ALIASA          ALIASI          RTX          CLLI
                LSN            RC              APCN24
003-003-004    003-003-003    3-003-4        No           -----
006-005-001    -----        -----        No           dstn63
                lsn63          10           006-005-001
p-006-005-001  -----        -----        No           dstn63p
006-005-002    006-005-002    -----        No           dstn64
                lsn64          10           006-005-002
p-006-005-002  006-005-020    -----        No           dstn64p
006-005-003    -----        6-005-3        No           dstn65
                lsn65          10           006-005-003
p-006-005-003  -----        6-050-3        No           dstn65p
006-070-001    -----        -----        No           tgtitun24a
                lsn63          10           006-005-001
                lsn64          20           006-005-002
                lsn65          30           006-005-003
006-005-004    -----        s-6-005-4      No           dstn66
                lsn66          10           006-005-004
p-006-005-004  -----        s-6-050-4      No           dstn66p
006-005-005    006-005-005    6-005-5        No           dstn67
                lsn67          10           006-005-005
p-006-005-005  006-005-050    6-050-5        No           dstn67p
006-070-002    -----        -----        No           tgtitun24b
                lsn66          10           006-005-004
                lsn67          20           006-005-005

```

;

Update to the rtrv-rtx Command

The output for the **rtrv-rtx** command is updated to adjust the spacing between the columns. The following examples display output for the **rtrv-rtx** command. For a complete description of this command, refer to the *Commands Manual* for the EAGLE 5 ISS Release 40.1 documentation set.

Example 1 displays all provisioned exception routes.

rtrv-rtx

```

eagle10115 08-12-09 10:00:37 EST EAGLE 40.1.0

DPCA           RTX-CRITERIA    LSN            RC            APC
200-002-001    OPCA
001-001-001    lsn11          15            001-002-003
001-002-001    lsn10          99            001-002-002

CIC - ECIC
0      9            lsn10          1            001-002-002
10    16383       lsn10          2            001-002-002

SI
3      lsn12          1            001-002-004
9      lsn12          21           001-002-004

```

Feature Notice

```

11          lsn12          9      001-002-004
DPCI       RTX-CRITERIA   LSN      RC      APC
s-2-029-6  OPCI
           3-030-0        lsn27      28    s-2-020-6
           CIC - ECIC
           34   44        lsn27      6    s-2-020-6
           45   55        lsn27      16   s-2-020-6
           SI
           3              lsn27      7    s-2-020-6
           15             lsn27      14   s-2-020-6
DPCN       RTX-CRITERIA   LSN      RC      APC
s-08379-aa OPCN
           s-08278-aa     lsn62      8    s-12693-aa
           CIC - ECIC
           99   100       lsn62      9    s-12693-aa
           999  1989      lsn62      99   s-12693-aa
           SI
           4              lsn56      29   s-08279-aa
           14             lsn56      44   s-08279-aa

DESTINATION ENTRIES ALLOCATED:  2000
FULL DPC(s):                    188
EXCEPTION DPC(s):                17
NETWORK DPC(s):                   2
CLUSTER DPC(s):                   4
TOTAL DPC(s):                    211
CAPACITY (% FULL):                11%
ALIASES ALLOCATED:               12000
ALIASES USED:                     216
CAPACITY (% FULL):                2%
X-LIST ENTRIES ALLOCATED:        500

```

;

Example 2 displays the output when a destination point code is requested.

rtrv-rtx:dpcn=s-08379-aa

```

eagle10115 08-12-09 10:00:37 EST EAGLE 40.1.0

DPCN       RTX-CRITERIA   LSN      RC      APC
s-08379-aa OPCN
           s-08278-aa     lsn62      8    s-12693-aa
           CIC - ECIC
           99   100       lsn62      9    s-12693-aa
           999  1989      lsn62      99   s-12693-aa
           SI
           4              lsn56      29   s-08279-aa
           14             lsn56      44   s-08279-aa

DESTINATION ENTRIES ALLOCATED:  2000
FULL DPC(s):                    188
EXCEPTION DPC(s):                17
NETWORK DPC(s):                   2
CLUSTER DPC(s):                   4
TOTAL DPC(s):                    211
CAPACITY (% FULL):                11%
ALIASES ALLOCATED:               12000
ALIASES USED:                     216
CAPACITY (% FULL):                2%
X-LIST ENTRIES ALLOCATED:        500

```

Update to the *rtrv-tbl-capacity* Command

The **rtrv-tbl-capacity** command is updated to display IP-Host table information. An example for the **rtrv-tbl-capacity** command is shown in [NPP-AS and NPP-SRS Capacities](#) . For a complete description of this command, refer to the *Commands Manual* for the EAGLE 5 ISS Release 40.1 documentation set.

Update to the *sctp* command

The **sctp -a aname** command is updated to revise the format of the header string "Send/Rev Buffer Size=" and "UNKNOWN". For a complete description of this command, refer to the *Commands Manual* for the EAGLE 5 ISS Release 40.1 documentation set. The following example displays the revised output.

```
pas:loc=1307:cmd="sctp -a assoc1"
```

```
Command Accepted - Processing
```

```
e1090203 09-03-03 12:52:56 EST EAGLE 40.1.0
4546.1083 SYSTEM INFO REPT COND: system alive
Report Date:09-03-02 Time:12:49:02
```

```
;
```

```
e1090203 09-03-03 12:52:56 EST EAGLE 40.1.0
pas:loc=1307:cmd="sctp -a assoc1"
Command entered at terminal #1.
```

```
;
```

```
e1090203 09-03-03 12:52:56 EST EAGLE 40.1.0
PASS: Command sent to card
```

```
;
```

```
e1090203 09-03-03 12:52:56 EST EAGLE 40.1.0
Aname      Local      Local      Remote      Remote
           Address    Port      Address    Port
assoc1     192.168.110.12 2222     192.168.112.4 5555
           192.168.112.12
```

```
Configuration                               State
Retransmission Mode = LIN                   State = OPEN
Min. Retransmission Timeout = 10             ULP association id = 18
Max. Retransmission Timeout = 800           Number of nets = 2
Max. Number of Retries = 10                 Inbound Streams = 1
Min. Congestion Window = 3000               Outbound Streams = 2
Inbound Streams = 2
Outbound Streams = 2
Checksum Algorithm = crc32c
Send/Rcv Buffer Size = 204800
```

Nets Data

```
IP Address 192.168.112.4      State Reachable
Port       5555                      Primary YES
MTU        1500                    cwnd 16384
ssthresh   16384                      RTO 120

IP Address 192.168.112.5      State Reachable
Port       7777                      Primary NO
MTU        1500                    cwnd 16384
ssthresh   16384                      RTO 120
```

```
Last Net Sent To = 192.168.112.4
Last Net Rcvd From = 192.168.112.4
Over All Error Count = 0
Peers Rwnd = 13880
```

Feature Notice

```

                My Rwnd = 16384
                Max Window = 16384
                Initial Seq Number = 24130
                Next Sending Seq Number = 124686
                Last Acked Seq Number = 124669
                Maximum Outbound Char Count = 16384
                Current Outbound Char Count = 2112
                Number Unsent Char Count = 0
                Outbound Data Chunk Count = 16
                Number Unsent = 0
                Number To Retransmit = 0

                ip datagrams rcvd = 155402
ip datagrams with data chunks rcvd = 120844
                data chunks rcvd = 367908
                data chunks read = 367900
                dup tsns rcvd = 8
                sacks rcvd = 38734
                gap ack blocks rcvd = 3
                heartbeat requests rcvd = 135
                heartbeat acks rcvd = 52
                heartbeat requests sent = 52
                ip datagrams sent = 129254
ip datagrams with data chunks sent = 73084
                data chunks sent = 396330
                retransmit data chunks sent = 135
                sacks sent = 64872
                send failed = 0
                retransmit timer count = 0
                consecutive retransmit timeouts = 0
RTT between RMIN and RMAX inclusive = 6
                RTT greater than RMAX = 0
                fast retransmit count = 135
                recv timer count = 0
                heartbeat timer count = 244
                none left tosend = 0
                none left rwnd gate = 5
                none left cwnd gate = 8
                UNKNOWN = 0

;

e1090203 09-03-03 12:52:56 EST EAGLE 40.1.0

SCTP command complete

;
```

Update to the `tst-msg` and `tst-npp-msg` Commands

The output for the `tst-msg` and the `tst-npp-msg` commands is updated as follows:

- The FORMAT fields display "FORMAT" only and are used to indicate whether formatting actions are executed.
- If no formatting actions are executed, then the OUTG DIGITS field displays UNMODIFIED.
- If any of the digit strings are blank, then EMPTY is displayed in the output for the string.

NOTE: These updates apply to only the `mode=full` and `mode=debug` versions of these commands.

For complete descriptions of these commands, refer to the *Commands Manual* for the EAGLE 5 ISS Release 40.1 documentation set.

The following examples display output for the `tst-msg` command.

Example 1 displays the output for the **full** mode of the command for the TTR protocol is used.

tst-msg:feat=ttr:prot=ttr:msgn=1:mode=full

```

tekelecstp 09-01-05 18:20:46 EST EAGLE 40.1.0
;

TST-MSG-RESULT
=====

MSG = 1          TCAP_TYPE = INAP

SCCP
CGPA_GT = 2
CGPA_GT_NAI = 4      CGPA = 9111111111
CDPA_GT = 2
CDPA_GT_NAI = 4      CDPA = 9818555001

TCAP
SK = 6balb1c1      BCSM = 02
CGPN_NAI = 4        CGPN = 919818000005
CDPN_NAI = 4        CDPN = 919818000001

CDPN NPP PROCESSING

SERVICE NAME = idprcdpn SERVICE STATUS = ON
  INC DIGITS = 919818000001
  NAI = 4 FNAI = intl FDIGLEN = 12

MATCHING RULE
  FNAI = intl FDIGLEN = 0 PPFX = *
  ACTION SET NAME = cdpnintl

CONDITIONING RESULT
  CA1 = cc2          EXECUTED = Y RESULT = PASS
  CA2 = ac2          EXECUTED = Y RESULT = PASS
  CA3 = snx          EXECUTED = Y RESULT = PASS
  INC DIGITS = 919818000001
  COND DIGITS = 919818000001

SERVICE APPLICATION
  SA1 = ccncchk      EXECUTED = Y FORMAT = Y
  SA2 = cdpnnp       EXECUTED = Y FORMAT = Y
  SA3 = cgpnnprqd    EXECUTED = Y FORMAT = Y

FORMATING RESULT
  FA1 = dlma         EXECUTED = Y RESULT = PASS
  FA2 = cc           EXECUTED = Y RESULT = PASS
  FA3 = rn           EXECUTED = Y RESULT = PASS
  FA4 = ac           EXECUTED = Y RESULT = PASS
  FA5 = sn           EXECUTED = Y RESULT = PASS
  OUTG DIGITS = 00910123459818000001
  OUTG FNAI = intl
;

tekelecstp 09-01-05 18:20:46 EST EAGLE 40.1.0

CGPN NPP PROCESSING

SERVICE NAME = idprcgpn SERVICE STATUS = ON
  INC DIGITS = 919818000005
  NAI = 4 FNAI = intl FDIGLEN = 12

MATCHING RULE
  FNAI = intl FDIGLEN = 12 PPFX = *
  ACTION SET NAME = cgpnl

CONDITIONING RESULT
  CA1 = cc2          EXECUTED = Y RESULT = PASS
  CA2 = ac2          EXECUTED = Y RESULT = PASS
  CA3 = sn8          EXECUTED = Y RESULT = PASS
  INC DIGITS = 919818000005

```

Feature Notice

```
COND DIGITS = 919818000005

SERVICE APPLICATION
  SA1 = cgpnpn      EXECUTED = Y FORMAT = Y

FORMATING RESULT
  FA1 = dlma        EXECUTED = Y RESULT = PASS
  FA2 = cc           EXECUTED = Y RESULT = PASS
  FA3 = rn           EXECUTED = Y RESULT = PASS
  FA4 = ac           EXECUTED = Y RESULT = PASS
  FA5 = sn           EXECUTED = Y RESULT = PASS
  OUTG DIGITS = 00915432109818000005
  OUTG FNAI = intl
;
```

Example 2 displays output for the **debug** mode of the command when the TTR protocol is used.

tst-msg:feat=ttr:prot=ttr:msgn=1:mode=debug

```
tekelecstp 09-01-05 18:20:46 EST EAGLE 40.1.0
;

TST-MSG-RESULT
=====

MSG = 2          TCAP_TYPE = INAP

SCCP
  CGPA_GT = 4
  CGPA_GT_NAI = 4      CGPA = 9111111111
  CDPA_GT = 4
  CDPA_GT_NAI = 4      CDPA = 9818555001

TCAP
  SK = 6balb1c1      BCSM = 02
  CGPN_NAI = 4        CGPN = 919818000005
  CDPN_NAI = 4        CDPN = 009090919818000001

CDPN NPP PROCESSING

SERVICE NAME = idprcdpn SERVICE STATUS = ON
  INC DIGITS = 009090919818000001
  NAI = 4 FNAI = intl FDIGLEN = 18

MATCHING RULE
  FNAI = intl FDIGLEN = 18 PFX = 00
  ACTION SET NAME = cdpn6

CONDITIONING RESULT
  CA1 = fpx          EXECUTED = Y RESULT = PASS
  CA2 = pfxa4        EXECUTED = Y RESULT = PASS
  CA3 = cc2          EXECUTED = Y RESULT = PASS
  CA4 = ac2          EXECUTED = Y RESULT = PASS
  CA5 = sn8          EXECUTED = Y RESULT = PASS
  INC DIGITS = 009090919818000001
  COND DIGITS = 919818000001

SERVICE APPLICATION
  SA1 = ccncchk      EXECUTED = Y FORMAT = Y
  CCNC Check Passed
  SA2 = cdpnpn      EXECUTED = Y FORMAT = Y
  RTDB LKPSUCC Entity=1 Cdpn=919818000001
  SA3 = lacck        EXECUTED = Y FORMAT = Y
  PFX & PFXA FAs set to None
  SA4 = cgpnpnrqd   EXECUTED = Y FORMAT = Y

FORMATING RESULT
  FA1 = fpx          EXECUTED = Y RESULT = PASS
  FA2 = pfxa         EXECUTED = Y RESULT = PASS
  FA3 = dlma         EXECUTED = Y RESULT = PASS
  FA4 = cc           EXECUTED = Y RESULT = PASS
  FA5 = rn           EXECUTED = Y RESULT = PASS
  FA6 = ac           EXECUTED = Y RESULT = PASS
```

```

FA7 = sn          EXECUTED = Y RESULT = PASS
OUTG DIGITS = 00910123459818000001
OUTG FNAI = intl
;

tekelecstp 09-01-05 18:20:46 EST  EAGLE 40.1.0

CGPN NPP PROCESSING

SERVICE NAME = idprcgpn SERVICE STATUS = ON
  INC DIGITS = 919818000005
  NAI = 4 FNAI = intl FDIGLEN = 12

MATCHING RULE
  FNAI = intl FDIGLEN = 12 PFX = *
  ACTION SET NAME = cgpn1

CONDITIONING RESULT
  CA1 = cc2          EXECUTED = Y RESULT = PASS
  CA2 = ac2          EXECUTED = Y RESULT = PASS
  CA3 = sn8          EXECUTED = Y RESULT = PASS
  INC DIGITS = 919818000005
  COND DIGITS = 919818000005

SERVICE APPLICATION
  SA1 = cgpnnp       EXECUTED = Y FORMAT = Y
  RTDB LKPSUCC Entity=1 Cgpn=919818000005

FORMATING RESULT
  FA1 = dlma         EXECUTED = Y RESULT = PASS
  FA2 = cc           EXECUTED = Y RESULT = PASS
;

```

Example 3 displays the output in debug mode when the ISUP protocol is used.

tst-msg:msgn=1:loc=2217:prot=isup:feat=tif3:mode=debug

```

tklcl1191001 09-01-08 08:06:03 EST  EAGLE5 40.1.0

SERVICE NAME = tif3 SERVICE STATUS = ON
  INC DIGITS = 1970442001
  NAI = 4 FNAI = intl FDIGLEN = 10

MATCHING RULE
  FNAI = intl FDIGLEN = 0 PFX = 1970
  ACTION SET NAME = temp3

CONDITIONING RESULT
  CA1 = cc1          EXECUTED = Y RESULT = PASS
  CA2 = dnx          EXECUTED = Y RESULT = PASS
  INC DIGITS = 1970442001
  COND DIGITS = 1970442001

SERVICE APPLICATION
  SA1 = nprls        EXECUTED = Y FORMAT = Y
  INDIV RLS redir=1 cause=np(0) RN=ffffff SP=dd02001

FORMATING RESULT
  FA1 = rn           EXECUTED = Y RESULT = PASS
  FA2 = cc           EXECUTED = Y RESULT = PASS
  OUTG DIGITS = fffffff1
  OUTG FNAI = intl
;

```

The following examples display output for the **tst-npp-msg** command. Example 1 displays the output when an international FNAI is used.

tst-npp-msg:loc=1101:digs=9090920292252645:nai=7:mode=full

```
tekelecstp 09-01-07 14:48:17 EST  EAGLE 40.1.0
```

Feature Notice

```
SERVICE NAME = nppt SERVICE STATUS = ON
  INC DIGITS = 9090920292252645
  NAI = 7 FNAI = intl FDIGLEN = 16

MATCHING RULE
  FNAI = intl FDIGLEN = 16 FPFX = 9090
  ACTION SET NAME = set1

CONDITIONING RESULT
  CA1 = ign4      EXECUTED = Y RESULT = PASS
  CA2 = cc2       EXECUTED = Y RESULT = PASS
  CA3 = dn10      EXECUTED = Y RESULT = PASS
  INC DIGITS = 9090920292252645
  COND DIGITS = 920292252645

SERVICE APPLICATION
  SA1 = rtdbtrn   EXECUTED = Y FORMAT = Y

FORMATING RESULT
  FA1 = cc        EXECUTED = Y RESULT = PASS
  FA2 = rn        EXECUTED = Y RESULT = PASS
  FA3 = dn        EXECUTED = Y RESULT = PASS
  OUTG DIGITS = 92abcd0292252645
  OUTG FNAI = intl
```

Example 2 displays the output when a National FNAI is used.

tst-npp-msg:loc=1101:digs=0609192252645:nai=5:mode=full

```
tekelecstp 09-01-07 14:48:17 EST EAGLE 40.1.0

SERVICE NAME = nppt SERVICE STATUS = ON
  INC DIGITS = 0609192252645
  NAI = 5 FNAI = natl FDIGLEN = 13

MATCHING RULE
  FNAI = natl FDIGLEN = 13 FPFX = 060
  ACTION SET NAME = set2

CONDITIONING RESULT
  CA1 = ccdef     EXECUTED = Y RESULT = PASS
  CA2 = ign3      EXECUTED = Y RESULT = PASS
  CA3 = dn7       EXECUTED = Y RESULT = PASS
  INC DIGITS = 0609192252645
  COND DIGITS = 989192252

SERVICE APPLICATION
  SA1 = rtdbtrnsp EXECUTED = Y FORMAT = Y

FORMATING RESULT
  FA1 = rn        EXECUTED = Y RESULT = PASS
  FA2 = sp        EXECUTED = Y RESULT = PASS
  FA3 = orig      EXECUTED = Y RESULT = PASS
  OUTG DIGITS = 1bce0609192252645
  OUTG FNAI = natl
```

Operational Changes

The following operational changes are generated for the features and other changes in Release 40.1.

Unsolicited Alarm Messages

New unsolicited alarm messages (UAMs) that are available in Release 40.1 are shown below.

Fast Copy**Table 1-1. New UAMs - Fast Copy**

UAM	576	Format	Output Group
Action	Added for 40.1		
Old data			
New data	All FC Network Unavailable	FCS	MON
UAM	577	Format	Output Group
Action	Added for 40.1		
Old data			
New data	All FC cards removed	FCS	MON
UAM	578	Format	Output Group
Action	Added for 40.1		
Old data			
New data	FC System is available	FCS	MON
UAM	579	Format	Output Group
Action	Added for 40.1		
Old data			
New data	FC Network Unavailable	CARD	MON
UAM	580	Format	Output Group
Action	Added for 40.1		
Old data			
New data	FC Network available	CARD	MON
UAM	581	Format	Output Group
Action	Added for 40.1		
Old data			
New data	Loss of heartbeat	CARD	MON
UAM	582	Format	Output Group
Action	Added for 40.1		
Old data			
New data	Available heartbeat	CARD	MON
UAM	583	Format	Output Group
Action	Added for 40.1		
Old data			
New data	Unexpected SAM received	SLK	MON
UAM	584	Format	Output Group
Action	Added for 40.1		
Old data			
New data	Expected SAM Received	SLK	MON
UAM	588	Format	Output Group
Action	Added for 40.1		
Old data			
New data	FC Port De-activated	DLK	MON
UAM	589	Format	Output Group

Feature Notice

Action	Added for 40.1		
Old data			
New data	FC Port Activated	DLK	MON
UAM	590	Format	Output Group
Action	Added for 40.1		
Old data			
New data	Fast Copy Applicaion De-activated	CARD	MON
UAM	591	Format	Output Group
Action	Added for 40.1		
Old data			
New data	Fast Copy Application Activated	CARD	MON

UAM Format Changes

The following UAM formats are enhanced to support EAGLE 5 ISS Release 40.1:

CARD

```

1           2           3           4           5           6           7           8
1234567890123456789012345678901234567890123456789012345678901234567890
xxxx.yyyy zz CARD cccc [device]      text
      ASSY SN:  nnnnnnnnnnnnnn(optional field)
      HW VERIFICATION CODE:  ###(optional field)
      INFO:  #####  #####(optional field)
      REASON:  ***** (optional fld)
      ALARM INHIBIT LEVEL:  XXXX
      ALARM INHIBIT LEVEL:  XXXX      Expires:      yy/mm/dd hh:mm (optional field)

```

DLK

```

1           2           3           4           5           6           7           8
1234567890123456789012345678901234567890123456789012345678901234567890
xxxx.yyyy zz DLK cccc,ppp [device]  text
      Failed Channels:  XXXX XXXX XXXX      (Optional)
      ERROR STATUS:  axxxxxxxxx. axxxxxxxxxxx.      (Optional)
      REASON:  ***** (Optional)
      ALARM INHIBIT LEVEL:  XXXX      (Optional)
      ALARM INHIBIT LEVEL:  XXXX      Expires:      yy/mm/dd hh:mm (optional field)

```

SLK

```

1           2           3           4           5           6           7           8
1234567890123456789012345678901234567890123456789012345678901234567890
xxxx.yyyy zz SLK cccc,ppp [lnkset]  text

```

```

SLC=## FECLLI=@***** CLASS=@@@ (optional)

Restart Delay(sec)=##### (optional)

REASON: ***** (optional)

ALARM INHIBIT LEVEL: XXXX (optional)

ALARM INHIBIT LEVEL: XXXX Expires: yy/mm/dd hh:mm (optional field)
    
```

Unsolicited Information Messages

New or changed unsolicited information messages (UIMs) that are available in Release 40.1 are shown below:

MO SMS B-Party Routing

Table 1-2. Enhanced UIMs - MO SMS B-Party Routing

UIM	1374	Format	Output Group
Action	Updated for MO SMS B-Party Routing		
Old data	SMS NP Destination address decode failed		
New data	SMS B-Party Address decode failed	I13	APSS
UIM	1375	Format	Output Group
Action	Updated for MO SMS B-Party Routing		
Old data	SMS NP failed to modify TCAP message		
New data	SMS Failed to modify TCAP MSU	I13	APSS
UIM	1376	Format	Output Group
Action	Updated for MO SMS B-Party Routing		
Old data	SMS NP outbound digits length exceeds limit		
New data	SMS Failed to modify B-Party digits	I13	APSS

MO SMS NPP

Table 1-3. New UIMs - MO SMS NPP

UIM	1410	Format	Output Group
Action	Added for MO SMS NPP		
Old data			
New data	MOSMS:Migrated Subscriber with no entity	I13	APSS
UIM	1416	Format	Output Group
Action	Added for MO SMS NPP		
Old data			
New data	MAP Missing Mandatory Parameters	I13	APSS
UIM	1425	Format	Output Group
Action	Added for MO SMS NPP		
Old data			
New data	SMS A-party Address decode failed	I13	APSS

Feature Notice

Non-feature Related

Table 1-4. Enhanced UIMs - Non-feature Related

UIM	1150	Format	Output Group
Action	Enhanced for 40.1		
Old data	SLK Inhibit denied		
New data		I81	LINK MAINTENANCE

UIM Format Changes

UIM format I81 is added to Release 40.1.

```

      1         2         3         4         5         6         7         8
1234567890123456789012345678901234567890123456789012345678901234567890
      xxxx.xxxx   CARD cccc,ppp INFO      `text`
      Source : *****
      Reason : *****

```

Error Messages

Error Messages - E5-OAM Card Set

Table 1-5. Error Messages - E5-OAM Card Set

Response ID Code	Error Message	New?	Used by Command
E2014	Unrecognized parameter identifier	Y	rtrv-clkopts
E2131	Parameters not valid for card type	N	chg-clkopts
E2144	Location invalid for hardware configuration	N	copy-fta copy/disp-gpl disp-disk-dir disp-tbl
E2157	Source parameter invalid for upgrade action	Y	act-upgrade
E2165	Removable drive not inserted	N	act-upgrade
E2314	Invalid filename entered	N	chg-db
E2395	Removable drive levels must match	N	chg-db
E2399	Removable drive not allowed for upgrade	N	act-upgrade
E2729	TDM does not support Global Timing Interface	N	chg-clkopts
E2738	Can not inhibit IMT bus - alternate bus is in abnormal state	N	act-upgrade
E2852	Failed reading STP Options table	N	chg-clkopts
E2945	Source database version is not compatible	N	act-upgrade
E3084	Both OAM cards must be of the same type	N	copy/dlt-fta copy-seculog disp-disk-stats

Response ID Code	Error Message	New?	Used by Command
			<code>disp-fta-dir</code>
E3200	TST-DISK command prevented	N	<code>tst-disk</code>
E3202	TST-DISK not allowed on active TDM	N	<code>tst-disk</code>
E3444	Upgrade prevented due to auto-inhibited card	N	<code>act-upgrade</code>
E3681	Source and destination combination is not allowed	N	<code>act-upgrade</code>
E3725	Removable drive database level is not compatible	N	<code>act-upgrade</code>
E3799	FORCE=YES must be specified	N	<code>chg-clkopts</code>
E3908	Invalid OAM HW config or an HMUX card is out of service	N	<code>act-upgrade</code>
E3950	Standby MASP is inhibited	N	<code>chg-db</code>
E4851	Removable cartridge can not be inserted	N	<code>act-upgrade</code>
E4911	Disk invalid for hardware configuration	Y	<code>chg/copy-gpl</code> <code>chg/copy-tbl</code> <code>disp-disk-dir</code> <code>format/tst-disk</code>
E4912	Disk invalid for specified Location	Y	<code>copy-gpl</code> <code>copy-tbl</code> <code>format-disk</code>
E4913	Disk parameter required	Y	<code>disp-disk-dir</code>
E4914	Src invalid for hardware configuration	Y	<code>act-upgrade</code> <code>chg-db</code>
E4915	Dest invalid for hardware configuration	Y	<code>chg-db</code>
E4916	Command invalid for hardware configuration	Y	<code>disp/set-lba</code>
E4918	Could not access USB disk	Y	<code>act-upgrade</code> <code>chg-db</code> <code>chg/copy-gpl</code>
E4919	Could not access RAM disk	Y	<code>act-upgrade</code>
E4920	Cannot copy table onto itself	Y	<code>copy-tbl</code>
E4921	Type invalid for hardware configuration	Y	<code>format-disk</code>

EAGLE Fast Copy

Table 1-6. Error Messages - EAGLE Fast Copy

Response ID Code	Error Message	New?	Used by Command
E2368	System busy - try again later	N	<code>rept-stat-mon</code>
E2964	PVN/FCNA/FCNB conflicts with IPRTE or IPLNK network	N	<code>act-upgrade</code>
E3093	EROUTE not Configured	N	<code>rept-stat-mon</code>
E3967	ESIS must be on	N	<code>chg/rtrv-netopts</code>
E4332	The specified network address is assigned to PVN/FCNA/FCNB	N	<code>chg-ip-lnk</code>
E4333	The specified IP route is assigned to PVN/FCNA/FCNB	N	<code>ent-ip-rte</code>

Feature Notice

Response ID Code	Error Message	New?	Used by Command
E4766	FCMODE must not be FCOPY	Y	chg-netopts
E4800	EISCOPY must be ON	Y	chg-eisopts
E4840	Fast Copy capable card is required	Y	rept-stat-mon
E4878	Invalid FCNA	Y	chg-netopts
E4946	Invalid FCNB	Y	chg-netopts
E4974	FCNA and FCNAMASK must not be identical	Y	chg-netopts
E5012	FCNB and FCNBMASK must not be identical	Y	chg-netopts
E5013	PVN, FCNA and FCNB must not be identical	Y	chg-netopts
E5014	EISCOPY must be turned OFF	Y	chg-netopts
E5015	FCMODE must be turned OFF	Y	chg-eisopts
E5016	TYPE parameter is required	Y	rept-stat-mon
E5017	Command Obsolete. Please use rept-stat-mon	Y	rept-stat-eroute
E5018	MODE can be specified only when TYPE is eroute	Y	rept-stat-mon
E5019	Either LOC or MODE can be specified	Y	rept-stat-mon
E5028	Eroute or Fast Copy card is required	Y	rept-stat-mon
E5045	At least one Fast Copy capable card must be IS-NR	Y	chg-eisopts

GTT LS ARI

Table 1-7. Error Messages - GTT LS ARI

Response ID Code	Error Message	New?	Used by Command
E2155	Invalid parameter combination specified	N	dlt-map dlt-mrn
E2996	Intermed GTT Load Sharing feature must be ON	N	enable-ctrl-feat
E2999	Failed reading the MRN table	N	ent/chg/dlt-map
E4480	Specified MRNSET does not exist	N	ent/chg-map
E4483	PC does not exist in specified MRNSET	Y	ent/chg-map
E4524	Failed reading MAP table	N	ent/chg/dlt-mrn
E4527	Specified MAPSET does not exist	N	ent/chg-mrn
E5040	Alternate RI Mate PC must be a full PC	Y	ent/chg-map ent/chg-mrn
E5041	GTT LS ARI feature must be enabled	Y	ent/chg/dlt-map ent/chg/dlt-mrn
E5042	PC and Alternate RI Mate PC network types don't match	Y	ent/chg-map ent/chg-mrn
E5043	MRNPC must be specified when MRNSET is specified	Y	ent-map
E5044	MRNPC does not exist in specified MRNSET	Y	ent/chg-map
E5046	SSN must be specified to update Alternate RI Mate	Y	dlt-map
E5047	Incorrect Alternate RI Mate Set specified	Y	dlt-map dlt-mrn

Response ID Code	Error Message	New?	Used by Command
E5048	MAPPC/MAPSSN must be specified when MAPSET is specified	Y	ent-mrn
E5049	MAPPC and MAPSSN must be specified together	Y	ent-mrn
E5051	MAPPC/MAPSSN does not exist in MAPSET	Y	ent/chg-mrn
E5052	MAPSET/MAPPC does not exist in MAP table	Y	ent/chg-mrn
E5054	PC must be given if MRNSET=dflt and MAPSET is specified	Y	dlt-mrn
E5055	Flexible GTT Load Sharing feature must be enabled	Y	enable-ctrl-feat
E5082	GTT LS ARI feature must be turned OFF	Y	chg-ctrl-feat
E5083	MAPPC can't be TPC or Mate of TPC	Y	ent/chg-mrn
E5084	To provision Alternate RI Mate, specify MRNPC	Y	chg-map
E5085	To provision Alternate RI Mate, specify MAPPC/MAPSSN	Y	chg-mrn
E5086	Alternate RI Mate already provisioned	Y	ent-mrn
E5087	ESWT, GRPWT and THR can not be specified with ARI Mate PC	Y	chg-map
E5088	ARI Mate can't be provisioned for a MAPSET having TPC	Y	ent/chg-map

Error Messages - GTT Loadsharing between ITU Network Types

Table 1-8. Error Messages - GTT Loadsharing between ITU Network Types

Response ID Code	Error Message	New?	Used by Command
E2417	Point code does not exist in the routing table	N	ent-cspc
E4985	Destination does not support same ITU ntwk alias combination	Y	ent/chg-dstn
E5001	Up to two alias PCs are supported per DPC	Y	ent/chg-dstn
E5072	PC has no allowed route	Y	ent-cspc
E5074	ITU destination does not support ANSI/ITU alias combination	Y	ent/chg-dstn

Error Messages - MO SMS B-Party Routing

Table 1-9. Error Messages MO SMS B-Party Routing

Response ID Code	Error Message	New?	Used by Command
E3544	Failed Reading GTT Set Table	N	chg-gsmsmsopts chg-is41smsopts
E3561	GTT Set specified by GTT Set Name does not exist	N	chg-gsmsmsopts chg-is41smsopts
E3631	Incompatible Feature/Option status	N	ent-chg-srvsel
E4562	MOSMSGTTDIG option must be SCCPCdPA	Y	chg-gsmsmsopts chg-is41smsopts
E4820	Failure reading EGLEOPTS table	N	dlt-gttset
E4995	GTT Set is being referenced in GSM/IS41 SMSOPTS	Y	dlt-gttset
E4996	MO SMS B-Party Routing feature must be Enabled	Y	chg-gsmsmsopts chg-is41smsopts
E4997	SETTYPE of specified GTTSET must be CdGTA	Y	chg-gsmsmsopts chg-is41smsopts

Feature Notice

Response ID Code	Error Message	New?	Used by Command
E4998	BPARTYGTTSN must not be NONE	Y	chg-gsmsmsopts chg-is41smsopts

Error Messages - MO-SMS NPP

Table 1-10. Error Messages - MO-SMS NPP

Response ID Code	Error Message	New?	Used by Command
E3474	Prepaid SMS Intercept Ph1 feature must be enabled	N	ent/chg-npp-srs
E3479	Port Check for MO SMS feature must be enabled	N	ent/chg-npp-srs
E4143	GPORT/IGM must be enabled or VFLEX must be ON	N	chg-gsmopts
E4446	MO-based GSM SMS NP or MO SMS ASD/GRN must be enabled	N	chg-gsmsmsopts
E4793	The parameter value can't be changed back to NONE	Y	chg-gsmsmsopts
E4819	Failure reading TSTMSG Table	Y	chg/rtrv-gsm-msg chg/rtrv-is41-msg
E4841	MNPSMS or MO SMS GSM NP feature must be enabled	N	chg-gsmsmsopts
E4855	MO SMS IS41 NP or MO SMS IS41-to-GSM Migr must be enabled	Y	chg-is41smsopts
E4949	TEST MSG protocol does not match with the FEAT specified	Y	tst-msg
E4953	RESET is mutually exclusive with any other parameter	Y	chg-gsm-msg chg-is41-msg
E4957	MO SMS IS41-to-GSM Migration feature must be enabled	N	ent/chg-npp-srs chg-is41smsopts
E5002	MOSMS IS41 features must be enabled	Y	chg-is41smsopts tst-msg
E5003	MOSMS GSM features must be enabled	Y	tst-msg
E5026	ASDLKUP and CGPNASDRQD SAs are mutually exclusive	Y	ent/chg-npp-srs
E5027	GRNLKUP and CGPNASDRQD SAs are mutually exclusive	Y	ent/chg-npp-srs
E5030	MO SMS ASD Feature must be enabled	Y	ent/chg-npp-srs
E5031	MO SMS GRN Feature must be enabled	Y	ent/chg-npp-srs
E5115	MO-based IS41 SMS NP must be enabled	Y	ent/chg-npp-srs chg-gsmsmsopts chg-is41smsopts
E5116	MO-based GSM SMS NP must be enabled	Y	ent/chg-npp-srs
E5118	MO SMS GSM NP, PPSMS or MO SMS ASD/GRN must be enabled	Y	chg-gsmsmsopts

MO SMS Prepaid Intercept on B-Party

Table 1-11. Error Messages - MO SMS Prepaid Intercept on B-Party

Response ID Code	Error Message	New?	Used by Command
E3368	PPT must not be specified without PC/PCA/PCI/PCN/RI/SETID	N	chg-ppsopts
E3480	PPT must be specified with PC/PCA/PCI/PCN/RI/SETID	N	chg-ppsopts

Response ID Code	Error Message	New?	Used by Command
E4629	RI/SETID must not be specified when PC/PCA/PCI/PCN=none	N	chg-ppsopts
E4707	PRX using DPC not allowed in GTT, MAP, MRN, PPSOPTS tables	N	chg-ppsopts

Non-feature PRs

Table 1-12. Error Messages - Non-feature

Response ID Code	Error Message	New?	Used by Command
E2417	Point code does not exist in the routing table	N	ent-cspc
E3266	Only 6 message relay services can be assigned	N	chg-lnp-serv
E3338	PC/SETID/SSN does not exist in MAP table	N	chg-ppsopts
E3368	PPT can be specified only with PC/PCA/PCI/PCN/RI/SETID/SSN	N	chg-ppsopts
E3480	PPT must be specified with PC/PCA/PCI/PCN/RI/SETID/SSN	N	chg-ppsopts
E4239	At least one other optional parameter is required	N	chg-lnp-serv
E4719	Either SERV or TT must be specified	Y	chg-lnp-serv
E4842	Cannot set DefCC to NONE, if IDPR feature is ON	Y	chg-stpopts
E5072	Point code does not exist in the routing table	Y	ent-cspc
E5102	PC/PCA/PCI/PCN must be specified if SSN is specified	Y	chg-ppsopts
E5117	ALW option invalid for IPSG-M3UA associations	Y	chg-assoc
E5133	Interchanging IPLIMx/IPGWx Assoc to IPSG Assoc not supported	Y	chg-assoc
E5134	DV, NDV, SERV, or NSERV would create invalid SERV and DV	Y	chg-lnp-serv

Related Publications

For information about additional publications that are related to this document, refer to the *Related Publications* document. The *Related Publications* document is published as a part of the *Release Documentation* and is also published as a separate document on the Tekelec Customer Support Site.

Locate Product Documentation on the Customer Support Site

Access to Tekelec's Customer Support site is restricted to current Tekelec customers only. This section describes how to log into the Tekelec 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 the Tekelec **new** Customer Support site at support.tekelec.com.
NOTE: If you have not registered for this new site, click the Register Here link. Have your customer number available. The response time for registration requests is 24 to 48 hours.
2. Click the **Product Support** tab.
3. Use the Search field to locate 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**.

Feature Notice

Customer Training

Tekelec offers a variety of technical training courses designed to provide the knowledge and experience required to properly provision, administer, operate and maintain the EAGLE 5 ISS. To enroll in any of the courses or for schedule information, contact the Tekelec Training Center at (919) 460-3064 or E-mail eagletrain@tekelec.com.

A complete list and schedule of open enrollment can be found at www.tekelec.com.

Customer Care Center

The Tekelec Customer Care Center is your initial point of contact for all product support needs. A representative takes your call or email, creates a Customer Service Request (CSR) and directs your requests to the Tekelec Technical Assistance Center (TAC). Each CSR includes an individual tracking number. Together with TAC Engineers, the representative will help you resolve your request.

The Customer Care Center is available 24 hours a day, 7 days a week, 365 days a year, and is linked to TAC Engineers around the globe.

Tekelec TAC Engineers are available to provide solutions to your technical questions and issues 7 days a week, 24 hours a day. After a CSR is issued, the TAC Engineer determines the classification of the trouble. If a critical problem exists, emergency procedures are initiated. If the problem is not critical, normal support procedures apply. A primary Technical Engineer is assigned to work on the CSR and provide a solution to the problem. The CSR is closed when the problem is resolved.

Tekelec Technical Assistance Centers are located around the globe in the following locations:

Tekelec - Global

Email (All Regions): support@tekelec.com

- **USA and Canada**

Phone:

1-888-FOR-TKLC or 1-888-367-8552 (toll-free, within continental USA and Canada)

1-919-460-2150 (outside continental USA and Canada)

TAC Regional Support Office Hours:

8:00 a.m. through 5:00 p.m. (GMT minus 5 hours), Monday through Friday, excluding holidays

- **Central and Latin America (CALA)**

Phone:

USA access code +1-800-658-5454, then 1-888-FOR-TKLC or 1-888-367-8552 (toll-free)

TAC Regional Support Office Hours (except Brazil):

10:00 a.m. through 7:00 p.m. (GMT minus 6 hours), Monday through Friday, excluding holidays

- **Argentina**

Phone:

0-800-555-5246 (toll-free)

— **Brazil**

Phone:

0-800-891-4341 (toll-free)

TAC Regional Support Office Hours:

8:30 a.m. through 6:30 p.m. (GMT minus 3 hours), Monday through Friday, excluding holidays

— **Chile**

Phone:

1230-020-555-5468

— **Columbia**

Phone:

01-800-912-0537

— **Dominican Republic**

Phone:

1-888-367-8552

— **Mexico**

Phone:

001-888-367-8552

— **Peru**

Phone:

0800-53-087

— **Puerto Rico**

Phone:

1-888-367-8552 (1-888-FOR-TKLC)

— **Venezuela**

Phone:

0800-176-6497

• **Europe, Middle East, and Africa**

— **Signaling**

Phone:

+44 1784 467 804 (within UK)

Feature Notice

TAC Regional Support Office Hours:

8:00 a.m. through 7:00 p.m. (GMT), Monday through Friday, excluding holidays

— **Software Solutions**

Phone:

+33 3 89 33 54 00

TAC Regional Support Office Hours:

8:00 a.m. through 7:00 p.m. (GMT), Monday through Friday, excluding holidays

• **Asia**

— **India**

Phone:

+91 124 436 8552 or +91 124 436 8553

TAC Regional Support Office Hours:

10:00 a.m. through 7:00 p.m. (GMT plus 5 1/2 hours), Monday through Saturday, excluding holidays

— **Singapore**

Phone:

+65 6796 2288

TAC Regional Support Office Hours:

9:00 a.m. through 6:00 p.m. (GMT plus 8 hours), Monday through Friday, excluding holidays

EAGLE 5 ISS Card Overview Table

The EAGLE 5 ISS Card Overview table is a resource table that provides an overview of information for cards that can be provisioned in the EAGLE 5 ISS. For a detailed description of supported hardware, see the [Hardware Baseline](#).

This table lists the following card information:

- The name of the card on the card label
- The card part number
- The provisioned card type
- The number of shelf slots that the card occupies (1 or 2)
- The number of physical ports on the card
- The maximum number of links that can be assigned to the card

- The GPLs and applications that can run on the card

Table 1-13. EAGLE 5 ISS Card Overview Table

Card Name as shown on card label	Part Number	Provisioned Card Type	Per Card Slots/Ports		Links per Card	Card GPLs	Card Applications					
ACM	870-1008-02	acmenet	2	1	1 IP Service	stplan imt	stplan					
	870-1008-03											
	870-1008-04											
	870-1008-05											
DCM	870-1945-01 870-1945-02 870-1945-03	dcm	2	2	2	bpdcm iplim iplimi	stplan iplim iplimi					
								870-1984-01 (DCMX)	2	1	bpdcm ss7ipgw ipgwi	ss7ipgw ipgwi
	EDCM (SSEDCM)	870-2372-01 870-2372-08 870-2372-13^	dcm	1	2	1 IP Service	bpdcm vwslan	stplan				
									8	bpdcm iplim iplimi	iplim iplimi	
1												bpdcm ss7ipgw ipgwi
870-2372-01	stc	1	2	2 IP Service	bpdcm eroute	eroute						
EDCM-A (SSEDCM)	870-2508-01	dcm	1	2	1 IP Service	bpdcm vwslan	stplan					
	870-2508-02^	stc	1	2	2 IP Service	bpdcm eroute	eroute					
DSM†	1 GB MEM 870-1984-02	dsm	2	2	2 IP service	bpdcm vsccp	vsccp					

Feature Notice

Card Name as shown on card label	Part Number	Provisioned Card Type	Per Card Slots/Ports		Links per Card	Card GPLs	Card Applications
	870-1984-08 870-1984-09 870-1984-15^ 870-1984-17^ 2 GB MEM 870-1984-03 4 GB MEM 870-1984-05 870-1984-06 870-1984-07 870-1984-13^ 870-1984-16^					gls	
DSM-1G	870-2371-02 870-2371-06 870-2371-08 870-2371-13^	ipsm	1	2 (use only A)	1 IP service	bpdc m ips	ips
EDSM-2G*	870-2372-03 870-2372-07 870-2372-09 870-2372-14^ 870-2372-15^	mcpr	1	2 (use only A)	1 IP service	bpdc m bpdc m2 mcp	mcp
E1/T1 MIM††	870-2198-01 870-2198-02 870-2198-03 870-2198-04 870-2198-07^	lime l limt l limch	1	2	8	ss7ml bpmlt	ss7ansi ccs7itu
E1-ATM	870-2455-01 870-2455-02 870-2455-03 870-2455-05^	lime latm	1	2	1	atmitu bphcap bphcapt	atmitu
E5-ATM	870-1872-01^	limatm	2	2	2	atmhc blbepm blcpld bldiag6	atmans

Feature Notice

Card Name as shown on card label	Part Number	Provisioned Card Type	Per Card Slots/Ports		Links per Card	Card GPLs	Card Applications
	870-1872-02^	lime1atm				blvxw6 imtpci	atmitu
E5-E1T1	870-1873-02 870-1873-03^ 870-1873-04^	lime1 limt1	1	8	32	ss7hc blbepm	ss7ansi ccs7itu
		lime1 (for SE-HSL)	1	8	1	bldiag6 blvxw6 imtpci pldpmc1 blcpld	ccs7itu
E5-ENET	870-2212-02 870-2212-03^ 870-2212-04^ 870-2212-05^	dcm	1	2	16	bldiag6 blbepm iplhc imtpci blvxw6 blcpld	iplim iplimi
			1	2	1	bldiag6 blbepm ipghc imtpci blvxw6 blcpld	ss7ipgw ipgwi
			1	2	2 IP Service	slanhc bldiag6 blbepm blvxw6 blcpld imtpci	stplan
			1	2	32	ipsg bldiag6 blbepm blvxw6 blcpld imtpci	ipsg

Feature Notice

Card Name as shown on card label	Part Number	Provisioned Card Type	Per Card Slots/Ports		Links per Card	Card GPLs	Card Applications
		stc	1	2	2 IP Service	erthc bldiag6 blbepm blvxw6 imtpci blepld	eroute
		enet	1	2	32	ipsg bldiag6 blbepm blvxw6 blepld imtpci	ipsg
E5-IPSM	870-2877-01^ 870-2877-02^	ipsm	1	2 (use only A)	1 IP service	ipshc imtpci blepld blvxw6 bldiag6 blbepm	ips
E5-MASP	870-2903-01^	N/A	2	2	N/A	oamhc blmcap	oam
E5-MDAL	870-2900-01^	N/A	2	N/A	N/A	N/A	N/A
E5-SM4G	870-2860-01^ 870-2860-02^	dsm	2	2	2 IP Service	scephc imtpci blepld blvxw6 bldiag6 bpbsmg	vsccp
E5-TSM	870-2943-03^	tsm	1	1	N/A	glshc blbepm blepld bldiags6 blvxw6 imtpci	gls

Feature Notice

Card Name as shown on card label	Part Number	Provisioned Card Type	Per Card Slots/Ports		Links per Card	Card GPLs	Card Applications
EILA	870-2049-01 870-2049-02	limds0 limocu limv35	1	2	2	ss7ansi ss7gx25 ccs7itu imt	ss7ansi ss7gx25 ccs7itu
EILA-T	870-2049-03	limds0 limocu limv35	1	2	2	ss7ansi ss7gx25 ccs7itu imt	ss7ansi ss7gx25 ccs7itu
GPSM-II	870-2360-01 870-2360-05 870-2360-06 870-2360-08^ 870-2360-09^	N/A	1	N/A	N/A	eoam bpdcn bpdcn2	oam
HC-MIM††	870-2671-01	lime1 limt1	2	8	64	ss7hc blbios blcpld	ss7ansi ccs7itu
	870-2671-02 870-2671-03^	lime1 (for SE-HSL)		8	2	blvxw6 bldiag6 pldpnc1 imtpci	ccs7itu
HIPR	870-2574-01 870-2574-02^	N/A	1	N/A	N/A	hipr	hipr
HMUX	870-1965-01 870-1965-03^	N/A	1	N/A	N/A	bphmux	bphmux
LIM-AINF**	870-1014-01 870-1014-02 870-1014-03 870-1014-04 870-1014-05 870-1014-06 870-1488-01 870-1488-02 870-1488-03 870-1488-04	limds0 limocu	1	2	1	ss7ansi ss7gx25 ccs7itu	ss7ansi ss7gx25

Feature Notice

Card Name as shown on card label	Part Number	Provisioned Card Type	Per Card Slots/Ports		Links per Card	Card GPLs	Card Applications
	870-1488-05 870-1488-06	limv35				imt	ccs7itu
LIM-ATM	870-1293-02 870-1293-03 870-1293-06 870-1293-07 870-1293-08 870-1293-10 870-1293-13^	limatm	1	2	1	atmansi bphcap bphcapt	atmansi
LIM-DS0	870-1009-02 870-1009-03 870-1009-04 870-1485-01 870-1485-02 870-1485-03	limds0	1	2	2 1 2	ss7ansi ss7gx25 ccs7itu imt	ss7ansi ss7gx25 ccs7itu
LIM-E1††	870-1379-01	lime1 limch	1	2	2	ss7ansi ccs7itu imt	ss7ansi, ccs7itu
LIM-ILA	870-1484-01 870-1484-02	limds0 limocu limv35	1	2	1	ss7ansi ss7gx25 ccs7itu imt	ss7ansi ss7gx25 ccs7itu
LIM-OCU	870-1010-03 870-1010-04 870-1010-05 870-1486-02 870-1486-03 870-1486-04	limocu	1	2	2	ss7ansi ss7gx25 ccs7itu imt	ss7ansi ss7gx25 ccs7itu
LIM-V.35	870-1012-02 870-1012-03 870-1012-04 870-1487-01 870-1487-02	limv35	1	2	2	ss7ansi ss7gx25 ccs7itu	ss7ansi ss7gx25

Feature Notice

Card Name as shown on card label	Part Number	Provisioned Card Type	Per Card Slots/Ports		Links per Card	Card GPLs	Card Applications
	870-1487-03					imt	ccs7itu
MDAL	870-0773-04 870-0773-05 870-0773-06 870-0773-08 870-0773-09^	N/A	2	N/A	N/A	N/A	N/A
MPL	870-2061-01 870-2061-03 870-2061-04 870-2061-06^	limds0	1	2	8	bpmpl ss7ml	ss7ansi
TDM	870-0774-10 870-0774-11	N/A	1	N/A	N/A	N/A	N/A
TDM-GTI	870-0774-15 870-0774-18^	N/A	1	N/A	N/A	N/A	N/A
TSM-256	870-1289-02 870-1289-03 870-1289-04 870-1289-06^ 870-1289-07^	tsm	1	N/A	N/A	sccp gls imt	sccp gls
TSM-512	870-1290-02 870-1290-03 870-1290-04	tsm	1	N/A	N/A	sccp gls imt	sccp gls
TSM-768	870-1291-02 870-1291-03 870-1291-04	tsm	1	N/A	N/A	sccp gls imt	sccp gls
TSM-1024	870-1292-02 870-1292-03 870-1292-04	tsm	1	N/A	N/A	sccp gls imt	sccp gls
<p>*Though the system allows 250 MCPM cards, practical usage is 2.</p> <p>**A LIM, EILA, or ILA is a link interface module using the AINF interface and can be installed in place of the LIM-DS0A, LIM-OCU, or LIM-V.35. It is configured in the database as either a LIM-DS0A, LIM-OCU, or LIM-V.35 card.</p> <p>†DSMs are required for the LNP, 50,000 GTT, G-Port, G-Flex, EIR, or INP feature. For more information about turning these features on, refer to the appropriate manual.</p> <p>††For the E1 or T1 interface, SS7 application (SS7ANSI or CCS7ITU) can be assigned to these cards.</p>							

Feature Notice

Card Name as shown on card label	Part Number	Provisioned Card Type	Per Card Slots/Ports	Links per Card	Card GPLs	Card Applications
For more information on the E1 or T1 interface go to Chapter 3 "System Administration Procedures" in the Database Administration Manual - SS7.						
^This part number is the ROHS equivalent of the immediately preceding part number.						

Feature Restrictions

The following table lists features that are not supported on certain cards. The cards are listed by the name that appears on the card label. For more information on the cards, such as card type, associated GPLs, etc, please see the [EAGLE 5 ISS Card Overview Table](#) .

NOTE: For the purposes of this table, the following conventions apply:

- The TSM-256, TSM-268, TSM-512, and TSM-1024 cards are collectively referred to as TSM cards.
- Restrictions on TSM cards apply only to TSM cards that are running the sccp application. There are no restrictions on TSM cards running the gls application.
- The 2-port EILA, EILA-T, ILA, LIM-AINF, LIM-DS0, LIM-E1, LIM-OCU, and LIM-V.35 cards are collectively referred to as 2-port LIM cards.

Table 1-14. Feature Restrictions

Feature Name	Part Number	Restricted on Card...
120 Million EPAP DN/IMSI Entries	N/A	DSM (less than 4G), TSM
384 Million LNP Records	893-0110-24 - 893-0110-36	DSM, TSM
AINPQ	893-0178-01	DSM (less than 4G), TSM
A-Port	893-0166-01	DSM (less than 4G), TSM
ATINP	893-0221-01	TSM
EIR	893-0123-01	TSM
Flexible GTT Loadsharing	893-0154-01	TSM
G-Flex	893-0219-01	TSM
G-Flex MLR	893-0217-01	TSM
G-Port	893-0172-01	TSM
GTT Loadsharing to 32 Destinations	N/A	TSM
Hex Digit Support for GTT	893-0185-01	TSM
IDP Screening for Prepaid	893-0155-01	TSM
INP	893-0179-01	TSM
IS41 GSM Migration	893-0173-01	DSM (less than 4G), TSM
ITU TCAP LRN Query	893-0263-01	TSM
Large System # Links, Quantity 2000	893-0059-01	2-port LIM
LNP Ported TNs (204 million, 216 million, 228 million)	893-0110-21 - 893-0110-23	DSM (less than 4G), TSM, E5-SM4G
MO SMS ASD	893-0267-01	DSM (less than 4G), TSM
MO SMS B-Party Routing	893-0246-01	DSM (less than 4G), TSM
MO SMS GRN	893-0266-01	DSM (less than 4G), TSM
MO-based GSM SMS NP	893-0194-01	DSM (less than 4G), TSM

Feature Name	Part Number	Restricted on Card...
MO-based IS41 SMS NP	893-0195-01	DSM (less than 4G), TSM
MO SMS IS41-to-GSM Migration	893-0262-01	DSM (less than 4G), TSM
MT-Based GSM SMS NP	893-0200-01	TSM
MT-Based GSM MMS NP	893-0241-01	TSM
MT-Based IS41 SMS NP	893-0199-01	DSM (less than 4G), TSM
MTP Messages for SCCP Apps	893-0174-01	DSM (less than 4G), TSM
Multiple Linkset to Single APC	893-0181-01	2-port LIM
Origin Based MTP Routing	893-0142-01	2-port LIM
Origin Based SCCP Routing	893-0143-01	TSM
Prepaid IDP Query Relay	893-0160-01	TSM
Prepaid SMS Intercept Ph1	893-0067-01	DSM (less than 4G), TSM
Proxy Point Code	893-0187-01 - 893-0187-10	2-port LIM
SCCP Loop Detection	893-0165-01	TSM
SCCP Service Re-route	N/A	TSM
TIF Number Portability	893-0189-01	TSM
TIF SCS Forwarding	893-0222-01	TSM
TIF Simple Number Substitution	893-0240-01	TSM
Transaction-based GTT Loadsharing	893-0171-01	TSM
V-Flex	893-0167-001	TSM
Weighted GTT Loadsharing	893-0170-01	TSM

Hardware Baseline

The Hardware Baseline for EAGLE 5 ISS Release 40.1 is shown in the following table.

Table 1-15. Hardware Baseline

Component	Part Number	ROHS Number (if applicable)	Required for
Control Shelf	870-2321-02 Rev A	870-2321-08 Rev A	HMUX
	870-2321-04 Rev A		HMUX, Standard Frame
	870-2377-01 Rev A	870-2377-02 Rev A	HMUX, Heavy Duty Frame
Control Shelf Backplane	870-0775-03 Rev E		
Extension Shelf	870-2378-01 Rev A	870-2378-02 Rev A	Heavy Duty Frame
	870-0776-02 Rev C		Standard Frame
	870-0776-03 Rev D		
	870-0776-06 Rev A		
	870-0776-07 Rev A		
	870-0776-08 Rev A or		
	870-0776-11 Rev A		
ACM	870-1008-02 Rev D or		
	870-1008-03 Rev A or		
	870-1008-04 Rev A or		

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Component	Part Number	ROHS Number (if applicable)	Required for
	870-1008-05 Rev A		
Air Management Card	870-1824-01 Rev A	870-1824-02 Rev A	Shelves with Fan Assembly
DCM	870-1945-01 Rev A or		
	870-1945-02 Rev A or		
	870-1945-03 Rev A		
DCMX	870-1984-01 Rev A		
EDCM (single slot)	870-2372-01 Rev E or		
	870-2372-08 Rev A	870-2372-13 Rev A	
EDCM-A (single slot)	870-2508-01 Rev A	870-2508-02 Rev A	
DSM, 1GB MEM	870-1984-02 Rev A or		
	870-1984-08 Rev A or		
	870-1984-09 Rev A	870-1984-15 Rev A 870-1984-17 Rev A	
DSM, 2GB MEM	870-1984-03 Rev A		
DSM, 4GB MEM	870-1984-05 Rev A		Heavy Duty Frame
	870-1984-06 Rev A or		
	870-1984-07 Rev A	870-1984-13 Rev A 870-1984-16 Rev A	
DSM-1G	870-2371-02 Rev A		
	870-2371-06 Rev A		
	870-2371-08 Rev A or	870-2371-13 Rev A	
EDSM-2G (MCPM)	870-2372-03 Rev A		
	870-2372-07 Rev A		
	870-2372-09 Rev A or	870-2372-14 Rev A	
		870-2372-15 Rev A	
E1/T1 MIM	870-2198-01 Rev G or		
	870-2198-02 Rev A or		
	870-2198-03 Rev A or		
	870-2198-04 Rev A	870-2198-07 Rev A	
E1-ATM	870-2455-01 Rev B		
	870-2455-02 Rev B		
	870-2455-03 Rev A	87-02455-05 Rev A	
E5-ATM		870-1872-01 Rev A	
		870-1872-02 Rev A	
E5-ATM Adapter		830-1342-05	
E5-E1T1	870-1873-02 Rev A	870-1873-03 Rev A	
		870-1873-04 Rev A	
E5-ENET	870-2212-02 Rev A	870-2212-03 Rev A	
		870-2212-04 Rev A	
		870-2212-05 Rev A	
E5-IPSM		870-2877-01 Rev A	
		870-2877-02 Rev A	

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Component	Part Number	ROHS Number (if applicable)	Required for
E5-MASP		870-2903-01 Rev C	
E5-MDAL		870-2900-01 Rev A	
E5-SM4G		870-2860-01 Rev F	
		870-2860-02 Rev A	
E5-TSM		870-2943-03 Rev A	
EILA	870-2049-01 Rev A		
EILA w/ DIMM	870-2049-02 Rev A		
EILA-T	870-2049-03 Rev A		
FAP	870-1606-01 Rev A or		Standard frame or standard frame with HC-MIMs
	870-1606-02 Rev A	870-1606-05 Rev A	
	870-2320-01 Rev A	870-2320-03 Rev A	Heavy duty frame or heavy duty frame with HC-MIMs
	870-1823-01 Rev B		
		870-2804-01 Rev B	
FAP-CF/EF	870-0243-08 Rev C		
FAP-MISC	870-0243-09 Rev C		
FAP Fuse and Alarm Panel	870-2804-01 Rev A		
Fast Copy Adapter Upper		830-1343-01 Rev A	
Fast Copy Adapter Lower		830-1343-02 Rev A	
GPSPM-II	870-2360-01 Rev E		
	870-2360-05 Rev A		
	870-2360-06 Rev A	870-2360-08 Rev A	
		870-2360-09 Rev A	
HC-MIM	870-2671-01 Rev P or		
	870-2671-02 Rev B	870-2671-03 Rev A	
HIPR	870-2574-01 Rev D	870-2574-02 Rev A	
HMUX	870-1965-01 Rev A	870-1965-03 Rev A	
LIM-AINF	870-1014-01 Rev D or		
	870-1014-02 Rev A or		
	870-1014-03 Rev B or		
	870-1014-04 Rev A or		
	870-1014-05 Rev A or		
	870-1014-06 Rev A		
LIM-AINF w/ DIMM	870-1488-01 Rev A or		
	870-1488-02 Rev A or		
	870-1488-03 Rev A or		
	870-1488-04 Rev A or		
	870-1488-05 Rev A or		
	870-1488-06 Rev A		
LIM-ATM	870-1293-02 Rev A or		
	870-1293-03 Rev A or		
	870-1293-06 Rev A or		
	870-1293-07 Rev A or		
	870-1293-08 Rev B or		

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Component	Part Number	ROHS Number (if applicable)	Required for
	870-1293-10 Rev A or	870-1293-13 Rev A	
LIM-DS0 or	870-1009-02 Rev D or		
	870-1009-03 Rev A or		
	870-1009-04 Rev A		
LIM-DS0 w/ DIMM	870-1485-01 Rev A or		
	870-1485-02 Rev A or		
	870-1485-03 Rev A		
LIM-E1	870-1379-01 Rev A		
LIM-ILA or	870-1484-01 Rev E		
LIM-ILA w/ DIMM	870-1484-02 Rev C		
LIM-OCU or	870-1010-03 Rev D or		
	870-1010-04 Rev A or		
	870-1010-05 Rev A or		
LIM-OCU w/ DIMM	870-1486-02 Rev A or		
	870-1486-03 Rev A or		
	870-1486-04 Rev A		
LIM-V.35 or	870-1012-02 Rev D or		
	870-1012-03 Rev A or		
	870-1012-04 Rev A		
LIM-V.35 w/ DIMM	870-1487-01 Rev A or		
	870-1487-02 Rev A or		
	870-1487-03 Rev A		
MDAL	870-0773-04 Rev B or		
	870-0773-05 Rev A or		
	870-0773-06 Rev A or		
	870-0773-08 Rev A	870-0773-09 Rev A	
MPL	870-2061-01 Rev A or		
	870-2061-03 Rev A or		
	870-2061-04 Rev A	870-2061-06 Rev A	
MPS DC Frame Assembly	890-1843-01 Rev C	890-1843-02 Rev A	
MPS in Heavy Duty Frame	890-1801-01 Rev E	890-1801-02 Rev A	
TDM	870-0774-10 Rev A or		
	870-0774-11 Rev A		Rev C required if installed in a system with more than 11 shelves
TDM GTI	870-0774-15 Rev B	870-0774-18 Rev A	
TSM-256	870-1289-02 Rev A or		
	870-1289-03 Rev A or		
	870-1289-04 Rev A	870-1289-06 Rev A 870-1289-07 Rev A	
TSM-512	870-1290-02 Rev A or		
	870-1290-03 Rev A or		
	870-1290-04 Rev A		

Feature Notice

Component	Part Number	ROHS Number (if applicable)	Required for
TSM-768	870-1291-02 Rev A or		
	870-1291-03 Rev A or		
	870-1291-04 Rev A		
TSM-1024	870-1292-02 Rev A or		
	870-1292-03 Rev A or		
	870-1292-04 Rev A		
Single EOAP	890-1050-03 Rev H		
Dual EOAP	890-1050-01 Rev K		
Kit, E1	890-1037-01 Rev A	890-1037-06 Rev A	
Kit, Holdover Clock Assy	890-1013-01 Rev A		
Fan Assy (Standard Frame)	890-1038-01 Rev D		
Fan Assy (Shelves with HC-MIM cards)	890-0001-01 Rev A or		
	890-0001-02 Rev A	890-0001-04 Rev A	
T1000 Application Server	870-2640-01 Rev F	870-2640-03 Rev A	
Dual Port G-Bit E-Net Card	870-2706-02 Rev B	870-2706-04 Rev A	
Modem Card	870-2707-01 Rev B	870-2707-02 Rev A	
Quad Serial Exp. Card	870-2708-01 Rev B	870-2708-02 Rev A	
120 GB Hard Drive Assy	870-2721-02 Rev B	870-2721-04 Rev A	
T1100 (Application Server - DC)	870-2754-01 Rev P or	870-1893-03 Rev A	
	870-2807-01 Rev A		
Dual Port Ethernet	870-2706-02 Rev A	870-2706-04 Rev A	
Hard Disc Drive - 250 GB SATA	870-2787-01 Rev B	870-2787-02 Rev A	
2 GB RAM Kit	870-2833-01 Rev C	870-2833-02 Rev A	

Glossary

A

ACM	Address Complete Message Application Communications Module A card in the EAGLE 5 ISS that provides a communications interface to a remote host across an Ethernet LAN.
AINF	Application Interface Appliqué An integrated appliqué that supports the DS0A, DSCS and V.35 interfaces on the same appliqué. The AINF appliqué can be configured as either a DS0A, OCU, or V.35 interface from the user terminal.
ATM	Asynchronous Transfer Mode A packet-oriented transfer mode that uses an asynchronous time division multiplexing technique to multiplex information flow in fixed blocks, called cells. A high-bandwidth, low-delay switching, and multiplexing technology to support applications that include high-speed data, local area network interconnection, multimedia application and imaging, and residential applications such as video telephony and other information-based services.

C

CCS7ITU	The generic program load and application for the ITU SS7 signaling links that is used with card types limds0 , limch , limocu , limv35 , lime1 , and limt1 .
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D

Database	All data that can be administered by the user, including cards, destination point codes, gateway screening tables, global title translation tables, links, LNP services, LNP service providers, location routing numbers, routes, shelves, subsystem applications, and 10 digit telephone numbers.
DCM	Database Communication Module The DCM provides IP connectivity for applications. Connection to a host is achieved through an ethernet LAN using the TCP/IP protocol.
DS0A	Digital Signal Level - 0 The interface used with the LIMDS0 card.
DSM	Database Service Module. The DSM provides large capacity SCCP/database functionality. The DSM is an application card that supports network specific functions such as EAGLE Provisioning Application Processor (EPAP), Global System for Mobile Communications (GSM), EAGLE Local Number Portability (ELAP), and interface to Local Service Management System (LSMS).

E

E1	The European equivalent of T1 that transmits digital data over a telephone network at 2.048 Mbps.
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E5-E1T1	<p>EPM-based E1/T1 Multi-Channel Interface Module</p> <p>An EPM-based card that provides E1 and T1 connectivity. The E5 indicates the card is for existing EAGLE 5 control and extension shelves. E1T1 is an abbreviation for the ITU E1 and ANSI T1 interfaces. Thus the nomenclature defines the shelves where the card can be used and the physical interface that it provides.</p>
E5-MCAP card	<p>The module contains the Communications Processor and Applications Processor and provides connections to the IMT bus. Controls the maintenance and database administration activity and performs both application and communication processing. Runs the OAM application and OAMHC GPL. Occupies slot 1113 and slot 1115 in an EAGLE 5 ISS control shelf. Used when the E5-MDAL card is used. Contains two USB ports.</p>
E5-MDAL card	<p>The E5 MDAL card processes alarm requests, provides general purpose relays, and provides fan control. Occupies slots 1117 and 1118 in an EAGLE 5 ISS Control Shelf. Used with E5-MASP cards. Does NOT contain a drive for removable cartridges.</p>
E5-ENET	<p>EPM-based Ethernet card</p> <p>A high capacity single-slot IP signaling card (EPM card plus Gig Ethernet PMC cards).</p>
E5-IPSM	<p>Ethernet Card w/ 2GB of main memory</p>
E5-TDM card	<p>The E5-TDM card provides the EAGLE 5 ISS with 16 ports for user terminals, contains fixed disk storage and distributes Composite Clocks and High Speed Master clocks throughout the EAGLE 5 ISS. Occupies slot 1114 and slot 1116 in an EAGLE 5 ISS Control Shelf. Used when the E5-MDAL card is used.</p>
EDCM	<p>Enhanced DCM</p> <p>Enhanced Database Communication Module</p>
EILA	<p>Enhanced Integrated LIM Appliqué</p>
EIR	<p>Equipment Identity Register</p> <p>A network entity used in GSM networks, as defined in the 3GPP Specifications for mobile networks. The entity stores lists of International Mobile Equipment Identity (IMEI) numbers, which correspond to physical handsets (not subscribers). Use of the EIR can prevent the use of stolen handsets because the network operator can enter the IMEI of these handsets into a 'blacklist' and prevent them from being registered on the network, thus making them useless.</p>

G

GB	<p>Gigabyte — 1,073,741,824 bytes</p>
G-Flex	<p>GSM Flexible numbering</p> <p>A feature that allows the operator to flexibly assign individual subscribers across multiple HLRs and route signaling messages, based on subscriber numbering, accordingly.</p>
G-Port	<p>GSM Mobile Number Portability</p> <p>A feature that provides mobile subscribers the ability to change the GSM subscription network within a portability cluster, while retaining their original MSISDN(s).</p>
GTT	<p>Global Title Translation</p> <p>A feature of the signaling connection control part (SCCP) of the SS7 protocol that the EAGLE 5 ISS uses to determine which service database to send the query message when an MSU enters the EAGLE 5 ISS and more information is needed to route the MSU. These service databases also verify calling card numbers and credit card numbers. The service databases are identified in the SS7 network by a point code and a subsystem number.</p>

H

Feature Notice

HC-MIM	<p>High Capacity Multi-Channel Interface Module</p> <p>A card that provides access to eight E1/T1 ports residing on backplane connectors A and B. Each data stream consists of 24 T1 or 31 E1 DS0 signaling links assigned in a time-division multiplex (TDM) manner. Each channel occupies a unique timeslot in the data stream and can be selected as a local signaling link on the interface card. Each card has 8 E1 or 8 T1 port interfaces with a maximum of 64 signaling links provisioned among the 8 E1/T1 ports.</p>
HIPR	<p>High-Speed IMT Packet Router</p> <p>A card that provides increased system throughput and traffic capacity. HIPR moves EAGLE from an intra-shelf ring topology to an intra-shelf switch topology. HIPR acts as a gateway between the intra-shelf IMT BUS, running at 125Mbps, and the inter-shelf operating at 1.0625Gbps. The HIPR card will seat in the same slot as an HMUX card (slots xx09 & xx10 of each shelf).</p>
HMUX	<p>High-Speed Multiplexer</p> <p>A card that supports the requirements for up to 1500 links, allowing communication on IMT buses between cards, shelves and frames. HMUX cards interface to 16 serial links, creating a ring from a series of point to point links. Each HMUX card provides a bypass multiplexer to maintain the ring's integrity as cards are removed and inserted into an operational shelf. High-Speed IMT Multiplexer, a replacement card for the IPMX.</p>

I

ILA	Integrated LIM Appliqué
IMF	<p>Integrated Message Feeder</p> <p>The IMF sits on the EAGLE and replicates the signaling data that is processed through the EAGLE to send to an off-board processor (the IXP in the case of IAS). Because it replicates the data (and doesn't introduce a new element in the path) it does not introduce any delay to the signaling and it does not create a separate footprint for a "probe" system.</p>
IMT	<p>Inter-Module-Transport</p> <p>The communication software that operates the inter-module-transport bus on all cards except the LIMATM, DCM, DSM, and HMUX.</p>
INP	<p>INAP-based Number Portability</p> <p>Tekelec's INP can be deployed as a stand-alone or an integrated signal transfer point/number portability solution. With Tekelec's stand-alone NP server, no network reconfiguration is required to implement number portability. The NP server delivers a much greater signaling capability than the conventional SCP-based approach.</p>
IP	<p>Intelligent Network (IN) Portability</p> <p>Intelligent Peripheral</p> <p>Internet Protocol</p> <p>IP specifies the format of packets, also called datagrams, and the addressing scheme. The network layer for the TCP/IP protocol suite widely used on Ethernet networks, defined in STD 5, RFC 791. IP is a connectionless, best-effort packet switching protocol. It provides packet routing, fragmentation and re-assembly through the data link layer.</p>
IP ⁷	Tekelec's Internet Protocol to SS7 Interface
ISS	Integrated Signaling System

L

LIM	Link Interface Module
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Provides access to remote SS7, X.25, IP and other network elements, such as a Signaling Control Point (SCP) through a variety of signaling interfaces (V.35, OCU, DS0, MPL, E1/T1 MIM, LIM-ATM, E1-ATM, IPLIMx, IPGWx). The LIMs consist of a main assembly and possibly, an interface appliqué board. These appliqués provide level one and some level two functionality on SS7 signaling links.

LIM-AINF	A link interface module (LIM) with the AINF interface.
LIM-ATM	A link interface module (LIM) with the ATM interface.
LIM-DS0	A link interface module (LIM) with the DS0A Appliqué.
LIM-E1	A link interface module (LIM) with the E1 Appliqué.
LIM-OCU	A link interface module (LIM) with the OCU Appliqué.
LIM-OCU	LIM-Office Channel Unit Applique
LNP	Local Number Portability The ability of subscribers to switch local or wireless carriers and still retain the same phone number.

M

MCPM	Measurement Collection and Polling Module The Measurement Collection and Polling Module (MCPM) provides comma delimited core STP measurement data to a remote server for processing. The MCPM is an EDSM with 2 GB of memory running the MCP application.
MDAL	Maintenance Disk and Alarm
MIM	Multi-Channel Interface Module
MPL	Multi-port LIM

N

NPP	Numbering Plan Processor Provides the flexible service application behavior that satisfies the needs of customers resident in complex signaling networks. It is used for number conditioning, RTDB lookup, and outgoing number formatting.
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S

SE-HSL	Synchronous E1 High Speed Link Format for E1 high-speed signaling links where time-slot 0 is used for framing and error control. The remainder of bandwidth, equivalent to 31 channels of 64Kbps data, is used as a single data link yielding a total capacity of 1.984 Mbps. Also known as Unchanneled E1.
SMSC	Short Message Service Center A network element in the mobile telephone network which delivers SMS messages.
SS7	Signaling System #7 A communications protocol that allows signaling points in a network to send messages to each other so that voice and data connections can be set up between these signaling points. These messages are sent over its own network and not over the revenue producing voice and data paths. The EAGLE 5 ISS is an STP, which is a device that routes these messages through the network.
SS7ANSI	SS7 ANSI

Feature Notice

SSEDCM An application used by the LIM cards and the E1/T1 MIM card for the MTP functionality.
Single Slot Enhanced Data Communications Module

T

T1 Transmission Level 1
A T1 interface terminates or distributes T1 facility signals for the purpose of processing the SS7 signaling links carried by the E1 carrier.
A leased-line connection capable of carrying data at 1,544,000 bits-per-second.

TDM Terminal Disk Module
Time Division Multiplexing
Data transmissions within individual connections follow a pre-defined multiplex scheme where a fixed time slot is available for each channel.

TDM-GTI TDM Global Timing Interface

TSM Translation Services Module
Provides SCCP functionality or GLS functionality for Local Number Portability (LNP)/SCCP (GTT). The SCCP software allows the TSM to be used as a memory board for Global Title Translation (GTT).

V

V.35 ITU Interface Recommendation, V.35
The interface used with the LIMV35 card.

