CHAPTER 4

Signaling System 7 Provisioning

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This chapter describes the Signaling System 7 Provisioning commands and their associated tables.

Note In this chapter, an asterisk preceding a token name means the token is mandatory. A token without an asterisk is optional.

Call Control Route

The Call Control Route (call-ctrl-route) table identifies the call control routes defined between various origination point codes (OPCs), destination point codes (DPCs), and signaling gateway (SG) groups.

Table Name: CALL-CTRL-ROUTE

Table Containment Area: Call Agent

Command Types Show, add, and delete

Examples

```
show call-ctrl-route id=routeset1;
add call-ctrl-route id=routeset1; routing-key-id=rk1; dpc-id=dpc1;
user-part-variant-id=standardansiss7;si=isup
delete call-ctrl-route id= routeset1;
```

Usage Guidelines Primary Key Token(s): id

Foreign Key Token(s): dpc-id, routing-key-id, user-part-variant-id

Add Rules: None.

Delete Rules: ID cannot exist in any dependency table.

Syntax Description

* ID	Primary key. Unique call control route identifier. VARCHAR(16): 1–16 ASCII characters.
* DPC-ID	Foreign key: DPC table. Unique destination point code identifier. VARCHAR(16): 1–16 ASCII characters.
* ROUTING-KEY-ID	Foreign key: Routing Key table. Unique routing key identifier. VARCHAR(16): 1–16 ASCII characters.
* USER-PART-VARIANT-ID	Foreign key: User Part Variant table. Name of the SS7 variant. VARCHAR(16): 1–16 ASCII characters.
AUTO-REFRESH	Specifies whether to display cached data on the screen. Valid only for the show command. CHAR(1): Y/N (Default = Y). Y—Queries the database for the most current data. N—Queries the database for the most current data only if the cached data is unavailable.
DESCRIPTION	Described by the service provider. VARCHAR(64): 1–64 ASCII characters.
DISPLAY	Specifies what token information to display on the screen. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all tokens are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
LIMIT	Specifies the number of rows to display on the screen. Valid only for the show command. INTEGER: 1–100000000 (Default = 100000000). **Note** The actual maximum number of rows displayed is currently lower than 100000000 due to software limitations.
ORDER	Specifies whether to display data on the screen in a sorted order. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all rows are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
SI	Service indicator. VARCHAR(16): 1–16 ASCII characters. Permitted values are: ISUP–ISDN User Part TUP–Telephone User Part SCCP–Signal Connection Control Part
START-ROW	Specifies to begin displaying data on the screen at a specific row. Valid only for the show command. INTEGER: 1–100000000 (Default = 1).

Destination Point Code

The Destination Point Code (dpc) table holds the destination point codes used in SS7 provisioning.

Command Types

Show, add, change, and delete

Examples

```
show dpc id=dpc1;
add dpc id=dpc1; point-code=1-1-1; point-code-type=ITU; net-ind=national;
description=destination point code;
change dpc id=dpc1;description=destination point code 1-1-1
delete dpc id=dpc1;
```

Note See the section "Destination Point Code Status Command" in Chapter 1, "Administration, Diagnostic, and Maintenance Commands" for the Destination Point Code status command.

Usage Guidelines

Primary Key Tokens: id

Unique Key Tokens: The combination of point-code and net-ap equals a unique index key.

Add Rules: Id cannot exist.

Change Rules: Id must exist. Only the description token can be changed.

Delete Rules: Id cannot exist in any dependency table, such as the Call Control Route table.

Syntax Description

* ID	Primary key. The destination point code id. VARCHAR(16): 1–16 ASCII characters.
* POINT-CODE	Point code value. VARCHAR(16): 1–16 ASCII characters.
* POINT-CODE-TYPE	Point code type. VARCHAR(16): 1–16 ASCII characters. Permitted values are: ANSI-CHINA ITU THAILAND (Release 4.2)
AUTO-REFRESH	Specifies whether to display cached data on the screen. Valid only for the show command. CHAR(1): Y/N (Default = Y). Y—Queries the database for the most current data. N—Queries the database for the most current data only if the cached data is unavailable.
DESCRIPTION	Described by the service provider. VARCHAR(64): 1–64 ASCII characters.

DISPLAY	Specifies what token information to display on the screen. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all tokens are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
LIMIT	Specifies the number of rows to display on the screen. Valid only for the show command. INTEGER: 1–100000000 (Default = 100000000). **Note** The actual maximum number of rows displayed is currently lower than 100000000 due to software limitations.
NET-AP	Unique key. Not provisionable. INTEGER: 0–32767 (Default = 0).
NET-IND	Network indicator. VARCHAR(16): 1–16 ASCII characters. Permitted values are: NATIONAL (Default) INTERNATIONAL RESERVED SPARE
ORDER	Specifies whether to display data on the screen in a sorted order. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all rows are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
START-ROW	Specifies to begin displaying data on the screen at a specific row. Valid only for the show command. INTEGER: 1–100000000 (Default = 1).

Origination Point Code

The Origination Point Code (opc) table contains the SS7 point codes used by signaling points within the SS7 network (PSTN) to send messages to the Cisco BTS 10200 Softswitch. These codes are also used by the Cisco BTS 10200 Softswitch to identify itself when sending messages to the PSTN network. The OPC identifies the sender of a message. It is used in conjunction with a destination point code (DPC), which identifies the signaling point in the PSTN that the message is being sent to. For example, the Cisco BTS 10200 Softswitch sends an OPC to identify itself as the originator of a message, while other signaling points use this code to identify the Cisco BTS 10200 Softswitch when they want to send messages to it.

Note In Release 4.5, for medium and large configurations, up to 30 OPCs can be provisioned per Cisco BTS 10200 Softswitch. For small configurations, up to 8 OPCs can be provisioned per Cisco BTS 10200 Softswitch.

Table Name: OPC

Table Containment Area: Call Agent, FSPTC, FSAIN

Command Types

Show, add, and delete

Examples

```
show opc id=opc1;
add opc id=opc1; point-code=2-2-1;
delete opc id=opc1;
```

Usage Guidelines

Primary Key Tokens: id

Unique Index Token(s): point-code, net-ap (Release 4.5)

Add Rules: Id cannot exist.

Change Rules: Id must exist. Only the description token can be changed.

Delete Rules: Id cannot exist in any dependency table.

Syntax Description

* ID	Primary key. The OPC id. VARCHAR(16): 1–16 ASCII characters.
* POINT-CODE	Point code value. VARCHAR(16): 1–16 ASCII characters.
* POINT-CODE-TYPE	Point code type. VARCHAR(16): 1–16 ASCII characters. Permitted values are: ANSI_CHINA ITU THAILAND (Release 4.2)
AUTO-REFRESH	Specifies whether to display cached data on the screen. Valid only for the show command. CHAR(1): Y/N (Default = Y). Y—Queries the database for the most current data. N—Queries the database for the most current data only if the cached data is unavailable.
DESCRIPTION	Described by the service provider. VARCHAR(64): 1–64 ASCII characters.
DISPLAY	Specifies what token information to display on the screen. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all tokens are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.

LIMIT	Specifies the number of rows to display on the screen. Valid only for the show command. INTEGER: 1–100000000 (Default = 100000000). **Note** The actual maximum number of rows displayed is currently lower than 100000000 due to software limitations.
ORDER	Specifies whether to display data on the screen in a sorted order. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all rows are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
START-ROW	Specifies to begin displaying data on the screen at a specific row. Valid only for the show command. INTEGER: 1–100000000 (Default = 1).

Routing Key

The Routing Key (routing-key) table holds the information for all the MTP3-User Adaptation Layer (M3UA) and SCCP-User Adaptation Layer (SUA) routing keys.

Table Name: ROUTING-KEY

Table Containment Area: Call Agent, FSPTC, FSAIN

Command Types

Show, add, change, and delete

Examples

```
show routing-key id=rk1;
add routing-key id=rk1; opc-id=opc1;sg-grp-id=sggrp1;rc=5;si=isup; platform-id=ca146
change routing-key id=rk1; description=ISUP routing key
delete routing-key id=rk1;
```

Usage Guidelines

Primary Key Token(s): id

Foreign Key Token(s): sg-grp-id, opc-id, dpc-id, ssn-id, subsystem-grp-id (Release 4.5)

Unique Key Token(s): The combination of sg-grp-id and rc equals a unique index key.

Add Rules:

- The same destination point code (DPC) cannot cross multiple SG-GRPs.
- The ssn-id is required if si=sccp.
- The subsystem-grp-id is required if si=sccp. (Release 4.5)
- Cross-check the opc-id and ssn-id across the Subsystem table when the routing-key is added with si=sccp.
- Cross-check the opc-id and subsystem-grp-id across the Subsystem table when the routing-key is added with si=sccp. (Release 4.5)
- The opc-id and ssn-id combine to make a unique key if si=sccp.
- The opc-id and subsystem-grp-id combine to make a unique key if si=sccp. (Release 4.5)
- The platform-id must exist in the Call Agent table if si=tup | isup, or else the platform-id must exist in the Feature Server table when si=sccp.
- Cross-check the platform-id across the Routing Key and Subsystem Profile tables if si=sccp.

Change Rules: Only the description token can be changed.

Delete Rules: id cannot exist in any dependency table.

Syntax Description

* ID	Primary key. Routing key ID. VARCHAR(16): 1–16 ASCII characters.
* OPC-ID	Foreign key: OPC table. Origination point code. VARCHAR(16): 1–16 ASCII characters.
* PLATFORM-ID	Platform ID (must be a valid Call Agent or Feature Server ID). VARCHAR(16): 1–16 ASCII characters.
* RC	Unique key. Routing context. INTEGER: 1–65535 (Default = 0).
* SG-GRP-ID	Unique key. Foreign key: Signaling Gateway Group table. Signaling gateway group id. VARCHAR(16): 1–16 ASCII characters.
* SI	Service indicator. VARCHAR(4): 1–4 ASCII characters. Permitted values are: SCCP TUP ISUP
SUBSYSTEM-GRP-ID (Release 4.5)	Mandatory if si=sccp. Subsystem Group ID. Foreign key: Subsystem Group table. VARCHAR(16): 1–16 ASCII characters.

AUTO-REFRESH	Specifies whether to display cached data on the screen. Valid only for the show command. CHAR(1): Y/N (Default = Y). Y—Queries the database for the most current data. N—Queries the database for the most current data only if the cached data is unavailable.
DESCRIPTION	Described by service provider. VARCHAR(64): 1–64 ASCII characters.
DISPLAY	Specifies what token information to display on the screen. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all tokens are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
DPC-ID	Foreign key: Destination Point Code table. The destination point code. VARCHAR(16): 1–16 ASCII characters.
LIMIT	Specifies the number of rows to display on the screen. Valid only for the show command. INTEGER: 1–100000000 (Default = 100000000). **Note** The actual maximum number of rows displayed is currently lower than 100000000 due to software limitations.
ORDER	Specifies whether to display data on the screen in a sorted order. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all rows are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
SSN-ID (Obsolete in Release 4.5)	Mandatory if si=sccp. Subsystem ID. Foreign key: Subsystem Profile table. VARCHAR(16): 1–16 ASCII characters.
START-ROW	Specifies to begin displaying data on the screen at a specific row. Valid only for the show command. INTEGER: 1–100000000 (Default = 1).

Signal Connection Control Part Network

The Signal Connection Control Part (SCCP) Network (sccp-nw) table contains the attributes associated with an SS7 network. Although an SCCP network can support multiple point codes, each SCCP network is associated with one point code. When an OPC-ID is specified, it is used as the primary key to search the SCCP network.

Table Name: SCCP-NW

Table Containment Area: FSPTC, FSAIN

Command Types

Show, add, change and delete

Examples

```
show sccp-nw id=1;
add sccp-nw id=1; sub-svc=NATIONAL; description=SCCP network;
change sccp-nw id=1; NET-IND=NATIONAL;
delete sccp-nw id=1;
```

Usage Guidelines

Primary Key Token(s): id

Add Rules: None.

Change Rules: None.

Delete Rules: The id of the SCCP network must not exist in any dependent table(s).

Syntax Description

* ID	Primary key. Network identifier. SMALLINT (1-255).
AUTO-REFRESH	Specifies whether to display cached data on the screen. Valid only for the show command. CHAR(1): Y/N (Default = Y). Y—Queries the database for the most current data. N—Queries the database for the most current data only if the cached data is unavailable.
DESCRIPTION	Described by the service provider. VARCHAR(64): 1–64 ASCII characters.
DISPLAY	Specifies what token information to display on the screen. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all tokens are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
HOP-COUNT	Provides the hop count with a value from 1 to 15. SMALLINT.

LIMIT	Specifies the number of rows to display on the screen. Valid only for the show command. INTEGER: 1–100000000 (Default = 100000000). **Note** The actual maximum number of rows displayed is currently lower than 100000000 due to software limitations.
NET-IND	Specifies the network indicator. VARCHAR(16): 1–16 ASCII characters. Permitted values are: • INTERNATIONAL • SPARE • NATIONAL (Default) • RESERVED
ORDER	Specifies whether to display data on the screen in a sorted order. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all rows are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
START-ROW	Specifies to begin displaying data on the screen at a specific row. Valid only for the show command. INTEGER: 1–100000000 (Default = 1).
SUB-SVC	Specifies the subservice. VARCHAR(16): 1–16 ASCII characters. Permitted values are: • INTERNATIONAL • SPARE • NATIONAL • RESERVED

Signal Connection Control Part Route (Release 4.5)

The Signal Connection Control Part (SCCP) Route (sccp-route) table specifies the route from a subsystem on the Cisco BTS 10200 Softswitch to a subsystem in the SS7 network

Table Name: SCCP-Route

Table Containment Area: FSPTC, FSAIN

Command Types

Show, add, change and delete

Examples

```
show sccp-route subsystem-grp-id=SSN1;
add sccp-route subsystem-grp-id=ssn1; opc-id=opc1; rk-id=rk1; dpc-id=dpc1;
description=SCCP Route 1;
change sccp-route subsystem-grp-id=SSN1; OPC-ID=opc1; dpc-id=dpc1;
delete sccp-route subsystem-grp-id=SSN1; OPC-ID=opc1; dpc-id=dpc1;
```

Usage Guidelines

Primary Key Token(s): subsystem-grp-id+opc-id+dpc-id

Foreign Key Token(s): dpc-id, opc-id, rk-id, subsystem-grp-id

Add Rules: The OPC in the Routing Key table must be the same as the OPC of the network in the SCCP Route table.

Change Rules: None.

Delete Rules: The id of the SCCP route cannot exist in any dependent table(s).

Syntax Description

* DPC-ID	Primary key. Foreign key: Destination Point Code table. VARCHAR(16): 1–16 ASCII characters.
* OPC-ID	Primary key. Foreign key: Origination Point Code table. The originating point code VARCHAR(16): 1–16 ASCII characters.
* RK-ID	Foreign key: Routing Key table. The routing key id associated with the route to DPC. VARCHAR(16): 1–16 ASCII characters.
* SUBSYSTEM-GRP-ID	Primary key. Foreign key: Subsystem table. The Subsystem group id. VARCHAR(16): 1–16 ASCII characters.
AUTO-REFRESH	Specifies whether to display cached data on the screen. Valid only for the show command. CHAR(1): Y/N (Default = Y). Y—Queries the database for the most current data. N—Queries the database for the most current data only if the cached data is unavailable.
DESCRIPTION	Described by the service provider. VARCHAR(64): 1–64 ASCII characters.
DISPLAY	Specifies what token information to display on the screen. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all tokens are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
LIMIT	Specifies the number of rows to display on the screen. Valid only for the show command. INTEGER: 1–100000000 (Default = 100000000). **Note** The actual maximum number of rows displayed is currently lower than 100000000 due to software limitations.

ORDER	Specifies whether to display data on the screen in a sorted order. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all rows are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
START-ROW	Specifies to begin displaying data on the screen at a specific row. Valid only for the show command. INTEGER: 1–100000000 (Default = 1).

Service Logic Host Route

The Service Logic Host Route (slhr) table contains the information necessary to route a Trigger Detection Point (TDP) request message to a Service Control Point (SCP).

Table Name: SLHR

Table Containment Area: FSPTC, FSAIN

Command Types

Show, add, change, and delete

Examples

```
show slhr id=1; opc-id=opc1;
add slhr id=slhr1; opc-id=opc1; dpc-id=dpc1;
change slhr id=slhr1; remote-ssn=254; opc-id=opc1;
delete slhr id=slhr1; opc-id=opc1;
```

Usage Guidelines

Primary Key Token(s): id plus the opc-id

Unique Key Token(s): opc-id plus the ssn-id, opc-id plus the subsystem-grp-id (Release 4.5)

Foreign Key Token(s): id, dpc-id, bpc-id, brk-id, opc-id, ssn-id, subsystem-grp-id (Release 4.5)

Add Rules: Id must exist in the SLHR Profile table.

Delete Rules: Id cannot exist in any dependency tables.

Other Rules:

- tt is mandatory if gtt-req=Y
- gtt-addr-type is mandatory if gtt-req=Y
- gtt-addr is mandatory if gtt-addr-type=DN

Syntax Description

* ID	Primary key. Foreign key: SLHR Profile table. Service Logic Host Route id. VARCHAR(16): 1–16 ASCII characters.
* DPC-ID	Foreign key: Destination Point Code table. The destination point code. This token is for the STP or SCP where the query is processed. VARCHAR(16): 1–16 ASCII characters.

* OPC-ID	Primary key. Unique key. Foreign key: Subsystem table. Originating point code. VARCHAR(16): 1–16 ASCII characters.
* SSN-ID (Obsolete in Release 4.5)	Unique key. Foreign key: Subsystem table. Subsystem profile id. VARCHAR(16): 1–16 ASCII characters.
* SUBSYSTEM-GRP-ID (Release 4.5)	Unique key. Foreign key: Subsystem Group table. Subsystem group id. VARCHAR(16): 1–16 ASCII characters.
BPC-ID (Obsolete)	Foreign key: Destination Point Code table. The backup point code. VARCHAR(16): 1–16 ASCII characters.
BRK-ID (Obsolete)	Foreign Key: Routing Key table. The routing key ID associated with the route to BPC, this must be present when a BPC is present. VARCHAR(16): 1–16 ASCII characters.
DESCRIPTION	Described by the service provider. VARCHAR(64): 1–64 ASCII characters.
GTT-ADDR	Specifies the global title translation (GTT) address. VARCHAR(10): 3, 6 or 10 digits.
GTT-ADDR-TYPE	Specifies the GTT address type (the called, calling, or network-defined DN). VARCHAR(4): 1–4 ASCII characters. Permitted values are: CDPN (Default)—Called party number CLGN–Calling number DN—Directory number
GTT-REQ	Specifies whether global title translation is required. CHAR(1): Y/N (Default = Y).
TT	Specifies the translation type. SMALLINT: 1–255 numeric digits.
AUTO-REFRESH	Specifies whether to display cached data on the screen. Valid only for the show command. CHAR(1): Y/N (Default = Y). Y—Queries the database for the most current data. N—Queries the database for the most current data only if the cached data is unavailable.
DISPLAY	Specifies what token information to display on the screen. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all tokens are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.

LIMIT	Specifies the number of rows to display on the screen. Valid only for the show command. INTEGER: 1–100000000 (Default = 100000000). **Note** The actual maximum number of rows displayed is currently lower than 100000000 due to software limitations.
ORDER	Specifies whether to display data on the screen in a sorted order. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all rows are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
START-ROW	Specifies to begin displaying data on the screen at a specific row. Valid only for the show command. INTEGER: 1–100000000 (Default = 1).

Service Logic Host Route Profile

The Service Logic Host Route Profile (slhr-profile) table identifies an SLHR. An slhr-profile id must be created in this table before entries can be added to the SLHR table.

Table Name: SLHR-PROFILE

Table Containment Area: EMS

Command Types

Show, add, and delete

Examples

```
show slhr-profile id=1;
add slhr-profile id=slhr1;
delete slhr-profile id=slhr1;
```

Usage Guidelines

Primary Key Token(s): id

Add Rules: Id cannot exist.

Delete Rules: slhr-profile id cannot exist in any dependency table.

Syntax Description

* ID	Primary key. Unique identifier of the SLHR. VARCHAR(16): 1–16 ASCII characters.
DESCRIPTION	Described by the service provider. VARCHAR(64): 1–64 ASCII characters.

AUTO-REFRESH	Specifies whether to display cached data on the screen. Valid only for the show command. CHAR(1): Y/N (Default = Y). Y—Queries the database for the most current data. N—Queries the database for the most current data only if the cached data is unavailable.
DISPLAY	Specifies what token information to display on the screen. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all tokens are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
LIMIT	Specifies the number of rows to display on the screen. Valid only for the show command. INTEGER: 1–100000000 (Default = 100000000). **Note** The actual maximum number of rows displayed is currently lower than 100000000 due to software limitations.
ORDER	Specifies whether to display data on the screen in a sorted order. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all rows are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
START-ROW	Specifies to begin displaying data on the screen at a specific row. Valid only for the show command. INTEGER: 1–100000000 (Default = 1).

Signaling Gateway

The Signaling Gateway (sg) table identifies all signaling gateways managed by a Call Agent. A signaling gateway passes signaling messages between an SS7 network and associated IP nodes.

Table Name: SG

Table Containment Area: Call Agent, FSPTC, FSAIN

Command Types

Show, add, change, delete, get-trace, and set-trace

Examples

```
show sg id=sg1;
add sg id=sg1;
change sg id=sg1;description=Signaling Gateway 1;
delete sg id=sg1;
```

Note See the section "Signaling Gateway Get and Set Trace Commands" in Chapter 1, "Administration, Diagnostic, and Maintenance Commands" for the signaling gateway get-trace and set-trace commands.

Usage Guidelines

Primary Key Token(s): id

Unique Key Token(s): id

Add Rules: None.

Change Rules: ID must exist; only changeable token is description.

Delete Rules: ID cannot exist in any dependency table.

Syntax Description

* ID	Primary key. Unique key. Unique signaling gateway identifier. VARCHAR(16): 1–16 ASCII characters.
AUTO-REFRESH	Specifies whether to display cached data on the screen. Valid only for the show command. CHAR(1): Y/N (Default = Y). Y—Queries the database for the most current data. N—Queries the database for the most current data only if the cached data is unavailable.
DESCRIPTION	Described by the service provider. VARCHAR(125): 1–125 ASCII characters.
DISPLAY	Specifies what token information to display on the screen. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all tokens are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
LIMIT	Specifies the number of rows to display on the screen. Valid only for the show command. INTEGER: 1–100000000 (Default = 100000000). **Note** The actual maximum number of rows displayed is currently lower than 100000000 due to software limitations.
ORDER	Specifies whether to display data on the screen in a sorted order. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all rows are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
PRIORITY	Specifies the priority. If signaling gateways are set to the same priority, the gateways load share. If the signaling gateways are set to different priorities, the higher priority is used. INTEGER: 1 or 2 (Default = 1). Permitted values are: 1—HIGH (Default) 2—LOW

START-ROW	Specifies to begin displaying data on the screen at a specific row. Valid only for the show command. INTEGER: 1–100000000 (Default = 1).

Signaling Gateway Group

The Signaling Gateway Group (sg-grp) table associates paired signaling gateways for redundancy and load sharing.

Table Name: SG-GRP

Table Containment Area: Call Agent, FSPTC, FSAIN

Command Types

Show, add, change, and delete

Examples

```
show sg-grp id=sgpair1;
add sg-grp id=sgpair1; sg1-id=sg1; sg2-id=sg2;
change sg-grp id=sgpair1; description=Signaling Gateway 1;
delete sg-grp id=sgpair1;
```

Usage Guidelines

Primary Key Token(s): id

Foreign Key Token(s): sg1-id, sg2-id

Unique Key Token(s): sg1-id, sg2-id

Add Rules:

- ID cannot exist; sg1-id and sg2-id cannot be the same.
- Cannot have more than two Skips per sg-grp.

Change Rules:

- ID must exist
- Only changeable token is description.

Delete Rules: ID cannot exist in any dependency table.

Syntax Description

* ID	Primary key. Unique SG group identifier. VARCHAR(16): 1–16 ASCII characters.
* SG1-ID	Unique key. Foreign key: Signaling Gateway table. First signaling gateway ID. VARCHAR(16): 1–16 ASCII characters.

AUTO-REFRESH	Specifies whether to display cached data on the screen. Valid only for the show command. CHAR(1): Y/N (Default = Y). Y—Queries the database for the most current data. N—Queries the database for the most current data only if the cached data is unavailable.
DESCRIPTION	Described by the service provider. VARCHAR(64): 1–64 ASCII characters.
DISPLAY	Specifies what token information to display on the screen. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all tokens are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
LIMIT	Specifies the number of rows to display on the screen. Valid only for the show command. INTEGER: 1–100000000 (Default = 100000000). **Note** The actual maximum number of rows displayed is currently lower than 100000000 due to software limitations.
ORDER	Specifies whether to display data on the screen in a sorted order. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all rows are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
SG2-ID	Second signaling gateway ID. Unique key. Foreign key: Signaling Gateway table. VARCHAR(16): 1–16 ASCII characters.
START-ROW	Specifies to begin displaying data on the screen at a specific row. Valid only for the show command. INTEGER: 1–100000000 (Default = 1).

Signaling Gateway Process

The Signaling Gateway Process (sgp) table identifies all the signaling gateway processes associated with each signaling gateway.

Table Name: SGP

Table Containment Area: Call Agent, FSPTC, FSAIN

Command Types Show, add, and delete

Examples

```
show sgp id=sgp1;
add sgp id=sgp1;
delete sgp id=sgp1;
```

Note See the section "Signaling Gateway Process Status, Get-Trace and Set Trace Commands" in Chapter 1, "Administration, Diagnostic, and Maintenance Commands" for the signaling gateway process status get-trace and set-trace commands.

Usage Guidelines

Primary Key Token(s): id

Foreign Key Tokens(s): id

Add Rules:

- ID cannot exist.
- Cannot add more than 2 SGP per SG.

Change Rules: ID must exist; only description can be modified.

Delete Rules: ID cannot exist in any dependency table.

Syntax Description

* ID	Primary key. Foreign key: Signaling Gateway table. Unique signaling gateway process identifier. VARCHAR(16): 1–16 ASCII characters.
AUTO-REFRESH	Specifies whether to display cached data on the screen. Valid only for the show command. CHAR(1): Y/N (Default = Y). Y—Queries the database for the most current data. N—Queries the database for the most current data only if the cached data is unavailable.
DESCRIPTION	Described by the service provider. VARCHAR(64): 1–64 ASCII characters.
DISPLAY	Specifies what token information to display on the screen. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all tokens are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
LIMIT	Specifies the number of rows to display on the screen. Valid only for the show command. INTEGER: 1–100000000 (Default = 100000000). **Note** The actual maximum number of rows displayed is currently lower than 100000000 due to software limitations.

ORDER	Specifies whether to display data on the screen in a sorted order. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all rows are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
START-ROW	Specifies to begin displaying data on the screen at a specific row. Valid only for the show command. INTEGER: 1–100000000 (Default = 1).

Signaling System 7 ANSI Trunk Group Profile

The Signaling System 7 ANSI Trunk Group Profile (ss7-ansi-tg-profile) table holds common information regarding an SS7 trunk group such as continuity test (COT). This table can be shared by multiple SS7 trunk groups.

Table Name: SS7-ANSI-TG-PROFILE

Table Containment Area: Call Agent

Command Types

Show, add, change, and delete

Examples

```
show ss7-ansi-tg-profile id=ss7pf1;
add ss7-ansi-tg-profile id=ss7pf1; type=a7; hop-counter=20; cot-orig=y;
change ss7-ansi-tg-profile id=ss7pf1; hop-counter=10;
delete ss7-ansi-tg-profile id=ss7pf1;
```

Usage Guidelines

Primary Key Token(s): id

Add Rules: None.

Change Rules: None.

Delete Rules: ID does not exist in any trunk-grp::tg-profile-id where tg-type=ss7.

Syntax Description

* ID	Primary key. SS7 trunk group profile ID. VARCHAR(16): 1–16 ASCII characters.
ALARM-CARRIER	Indicates the type of alarm detection implemented on the spans that form the trunk group. The value of this token populates the Alarm Carrier Indicator field within the Circuit Group Characteristic Indicators parameter of the circuit validation response (CVR) message. VARCHAR(16): 1–16 ASCII characters. Permitted values are: UNKNOWN (Default)—It is unknown what type of alarm carrier the trunk group supports. SOFTWARE—The trunk group supports software carrier group alarm. HARDWARE—The trunk group supports hardware carrier alarm.

ALLOW-CRMCRA	Specifies if a circuit reservation message/circuit reservation acknowledgment (CRMCRA) indicator is allowed. CHAR(1): Y/N (Default = Y).
ALLOW-EXM	Specifies whether to allow sending an exit message (EXM) indicator if data is available in the call. CHAR(1): Y/N (Default = Y).
AUTO-REFRESH	Specifies whether to display cached data on the screen. Valid only for the show command. CHAR(1): Y/N (Default = Y). Y—Queries the database for the most current data. N—Queries the database for the most current data only if the cached data is unavailable.
CCT-GRP-CARRIER	Indicates the type of voice carrier used on the spans of the trunk group. The value of this token populates the Circuit Group Carrier Indicator field within the Circuit Group Characteristic Indicators parameter. VARCHAR(32): 1–32 ASCII characters. Permitted values are: ANALOG DIGITAL (Default) DIGITAL-ANALOG UNKNOWN
CFN-SUPP	Confusion message support indicator. CHAR(1): Y/N (Default = N). Y—Far-end switch supports confusion message. N—Far-end switch does not support confusion message.
CONGEST-PROC	Specifies a congestion procedure to apply. SMALLINT: 0.
COT-DURATION	Specifies the duration of the continuity test in seconds. SMALLINT: 1–60 (Default = 1).
COT-FREQ	Specifies whether to perform a continuity test on outgoing SS7 calls. The specified value indicates the number of calls that occur before the continuity test is performed. For example, if cot-freq is set to the value 1, a COT test is performed for every call. The value 7 indicates that the test is performed for every 7th call. If cot-freq is set to 100 (the maximum), a COT test is performed for 1 call out of 100 calls. SMALLINT: 0–100 (Default = 7). **Note** Implementation is on a per trunk basis, not a per trunk group basis.
COT-ORIG	Continuity test indicator on originating (outgoing) SS7 calls. CHAR(1): Y/N (Default = Y).

COT-TONE	Continuity tone.
Note The Cisco BTS 10200 Softswitch does not support 2-wire side emulation in transponder COT testing.	CHAR(8): 1–8 characters. Permitted values are: 4W-TO-2W (Default)—Tx Low (1780 Hz), Rx High (2010 Hz). 2W-TO-2W—Tx High (2010 Hz), Rx Low (1780 Hz). Not supported. 2W-TO-4W—Tx High (2010 Hz), Rx Low (1780 Hz). Not supported. 4W-TO-4W—Tx High (2010 Hz), Rx High (2010 Hz).
DEFAULT-BC	Specifies the default bearer capability used in USI parameter. VARCHAR(6): 1–6 ASCII characters. Permitted values are: SPEECH 3-1KHZ
DEFAULT-CHGNOA	Provides a default automatic number identification (ANI) nature of address (NOA) used to populate the charge number sent to the basic call module (BCM) if none is received from the line. VARCHAR(32): 1–32 ASCII characters. Permitted values are: NOTUSED (Default) ANI-CGSUB-SUB-NUM—ANI of the calling party; subscriber number. ANI-NOT-AVAIL—ANI not available. ANI-CGSUB-NAT-NUM—ANI of the calling party; national number. ANI-CDSUB-SUB-NUM—ANI of the called party; subscriber number. ANI-CDSUB-NO-NUM—ANI of the called party; no number present. ANI-CDSUB-NAT-NUM—ANI of the called party; national number.
DEFAULT-CHGNPI	Provides a default Numbering Plan indicator to populate the charge number sent to the BCM if none is received from the line. VARCHAR(32): 1–32 ASCII characters. Permitted values are: NOTUSED (Default) NONE—None. E164—E.164 numbering plan. DATA—Data numbering plan. TELEX—Telex numbering plan. PNP—Private numbering plan. NATIONAL—National numbering plan. TELEPHONY—Telephony numbering plan. MARITIME-MOBILE—Maritime mobile numbering plan. LAND-MOBILE—Land mobile numbering plan. ISDN-MOBILE—Integrated Services Digital Network numbering plan

DEFAULT-OLI	Provides a default Originating Line Information (OLI) indicator to populate the OLI sent to the BCM if none is received from the line. VARCHAR(32): 1–32 ASCII characters. Permitted values are: NOTUSED (Default) 800-SERVICE-CALL—800 Service. ACCESS-FOR-VPN-TYPES-OF-SVC—Access for Virtual Private Network (VPN) types of service. AIOD—Automatic Identified Outward Dialing. CELLULAR-SVC-1—Cellular service 1. CELLULAR-SVC-2—Cellular service 2. CELLULAR-SVC-ROAMING—Cellular service roaming. COIN—Coin box pay phone. COIN-DATABASE—Coin database. CUSTOMER-SPECIFIC-1—Customer specific 1. CUSTOMER-SPECIFIC-2—Customer specific 2. INTERCEPT-BLANK—Intercept blank. INTERCEPT-REGULAR—Intercept regular. INTERCEPT-TROUBLE—Intercept trouble. INTERLATA-RESTRICTED—Interlata restricted. INTERLATA-RESTRICTED-COINLESS—Interlata restricted coinless. INTERLATA-RESTRICTED-HOTEL—Interlata restricted hotel. MULTIPARTY-LINE—Multiparty line. NI-FAILURE—Network interface failure OUTWATS—Outward wide area telephony service. POTS—Plain old telephone service. PRISON-INMATE-SERVICE—Prison inmate service. PRIVATE-PAYSTATIONS—Private pay phone. SPECIAL-OPERATOR-REQ—Special operator request. STATION-LEVEL-RATING—Station level rating. TELCO-OPERATOR-CALL—Telco operator call. TESTCALL—Test call. TOLLFREE-FROM-PAYSTATION—Toll free call from pay phone. TRS-1—Telephone relay service 1. TRS-2—Telephone relay service 2. TRS-3—Telephone relay service 3.
DESCRIPTION (EMS-only field)	Described by the service provider. VARCHAR(64): 1–64 ASCII characters.

DISPLAY	Specifies what token information to display on the screen. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all tokens are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
ECHO-SUPP-REQUIRED (Not supported)	Specifies if echo suppression is required. CHAR(1): Y/N (Default = N).
FAST-ANSWER-SUPP	Specifies whether fast answer is supported. It is used when a call is being terminated to a NAS server. CHAR(1): Y/N (Default = N). Y—Fast answer is supported. N—Fast answer is not supported.
HOP-COUNTER	Number of SS7 hops allowed. The hop counter field is the number of contiguous SS7 interchange circuits remaining before the call must be completed. If the call is not completed within the required number of circuits, the call is released. SMALLINT: 0, 10–20 (Default = 20). **Note** 0 = Not supported
INBAND-INFO	Specifies whether to send a release, provide a tone, or provide an announcement if data is available in the call. CHAR(1): Y/N (Default = N).
LIMIT	Specifies the number of rows to display on the screen. Valid only for the show command. INTEGER: 1–100000000 (Default = 100000000). **Note** The actual maximum number of rows displayed is currently lower than 100000000 due to software limitations.
ORDER	Specifies whether to display data on the screen in a sorted order. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all rows are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
REDIR-MAX	Specifies maximum number of redirections. SMALLINT: 1–10 (Default = 5).
SATELLITE-CIRCUIT (Not supported)	Satellite circuit indicator. CHAR(1): Y/N (Default = N).
SEND-ATP	Specifies whether to allow sending an access transport parameter indicator if data is available in the call. CHAR(1): Y/N (Default = Y).

SEND-CHN-NONGEO	Specifies whether to allow sending a charge number nongeographic indicator if data is available in the call. CHAR(1): Y/N (Default = N). **Note** Set this token to Y to send the charge number when the billing DN is different than the DN in subscriber and you are using PIC routing.
SEND-CHNOLIP	Specifies whether to allow sending a charge number originating line information if data is available in the call. Presentation indicator. CHAR(1): Y/N (Default = N). **Note** Both SEND-CHNOLIP and SEND-CIP must be set to Y to send a CIP.
SEND-CIP	Specifies whether to send a carrier information parameter (CIP). CHAR(1): Y/N (Default = N). Y—Send a CIP. N—Do not send a CIP. **Note** Both SEND-CHNOLIP and SEND-CIP must be set to Y to send a CIP.
SEND-CIP-NONGEO	Carrier information. Specifies whether to send a parameter nongeographic indicator (carrier information parameter (GR-394)). CHAR(1): Y/N (Default = N). **Note** Set this token to Y to send a CIP.
SEND-CPN	Specifies whether to allow sending a calling party number in the IAM (should always be included) if data is available in the call. CHAR(1): Y/N (Default = Y).
SEND-CPN-PRES	Specifies whether to allow sending calling party number presentation information if data is available in the call. CHAR(1): Y/N (Default = N).
SEND-GAP	Specifies whether to allow sending a generic address parameter indicator if data is available in the call. CHAR(1): Y/N (Default = Y).
SEND-GN	Specifies whether to allow sending a generic name indicator if data is available in the call. CHAR(1): Y/N (Default = N).
SEND-HOPCOUNTER	Specifies whether to allow sending a hop counter indicator if data is available in the call. CHAR(1): Y/N (Default = Y).
SEND-JIP	Specifies whether to allow sending a jurisdiction information parameter if data is available in the call. CHAR(1): Y/N (Default = Y).
SEND-NOTIFICATION (Not supported)	Specifies whether to allow sending a notification indicator if data is available in the call. CHAR(1): Y/N (Default = N).

SEND-OCN	Specifies whether to allow sending an original called number indicator if data is available in the call. CHAR(1): Y/N (Default = Y).
SEND-REDIRCAP (Not supported)	Specifies whether to allow sending a redirection capability information indicator if data is available in the call. CHAR(1): Y/N (Default = N).
SEND-REDIRCOUNTER (Not supported)	Specifies whether to allow sending a redirection counter indicator if data is available in the call. CHAR(1): Y/N (Default = N).
SEND-REDIRINFO	Specifies whether to allow sending a redirecting information indicator if data is available in the call. CHAR(1): Y/N (Default = Y).
SEND-REDIR-NUM	Specifies whether to allow sending a redirecting number indicator if data is available in the call. CHAR(1): Y/N (Default = Y).
SEND-SERVICECODE (Not supported)	Specifies whether to allow sending a service code indicator if data is available in the call. CHAR(1): Y/N (Default = N).
SEND-TRANSREQ (Not supported)	Specifies whether to allow sending a transaction request parameter indicator if data is available in the call. CHAR(1): Y/N (Default = N).
START-ROW	Specifies to begin displaying data on the screen at a specific row. Valid only for the show command. INTEGER: 1–100000000 (Default = 1).
T-14	Timer to specify whether to send an unblocking (UBL) before receiving an unblocking acknowledgment (UBA). SMALLINT: 4–6 seconds (Default = 6).
T-18	Timer to specify whether to send a UBL before receiving a UBA. SMALLINT: 4–15 seconds (Default = 15).
T-20	Timer to specify whether to send a circuit group unblocking (CGU) before receiving a circuit group unblocking acknowledgment (CGUA). SMALLINT: 4–15 seconds (Default = 15).
T-8	Timer for when receipt of initial address message (IAM) indicating previous or incoming continuity check, awaiting continuity (COT). SMALLINT: 10–15 seconds (Default = 15).
T-9	Ring No Answer Timer. SMALLINT: 0–255 seconds (Default = 255).
T-BLO	Timer for when sending a blocking (BLO) or UBL, awaiting a blocking acknowledgment (BLA) or UBA; shorter timer used for retransmission. SMALLINT: 4–6 seconds (Default = 6).

T-CCR-R	Timer for when responding to a continuity check request (CCR), awaiting a COT or REL. SMALLINT: 10–12 seconds (Default = 12).
T-CGB	Timer for when sending a second circuit group blocking (CGB) or first circuit group unblocking (CGU), awaiting a circuit group blocking acknowledgment (CGBA) or circuit group unblocking acknowledgment (CGUA); shorter timer used for retransmission. SMALLINT: 4–15 seconds (Default = 15).
T-COT-L	Timer for when receiving second COT coded "failed," awaiting receipt of CCR. SMALLINT: 240–300 seconds (Default = 300).
T-COT-R	Timer for when receiving first COT coded "failed," awaiting receipt of CCR. SMALLINT: 16–20 seconds (Default = 20).
T-GRS	Timer for when sending a second circuit group reset (GRS), awaiting circuit group reset acknowledgment (GRA); shorter timer used for retransmission. SMALLINT: 4–15 seconds (Default = 15).
T-IAM	Timer for when sending initial address message (IAM), awaiting an address complete message (ACM), answer message (ANM), or release message (REL). SMALLINT: 20–30 seconds (Default = 30).
T-REL	Timer for when sending a release (REL), awaiting a release complete (RLC); shorter timer used for retransmission. SMALLINT: 4–6 seconds (Default = 6).
T-RSC	Timer for when sending a reset circuit (RSC), awaiting an RLC; shorter timer used for retransmission. SMALLINT: 4–15 seconds (Default = 15).
TYPE	SS7 trunk group type. CHAR(2). Permitted values are: A7 (Default)—ANSI variant of SS7. E7—Not used. C7—Not used.
UNAVAIL-PROC	Specifies an unavailable procedure to apply. SMALLINT: 0.

Signaling System 7 Circuit Identification Code

The Signaling System 7 CIC (ss7-cic) table is not provisionable. It is created and populated when SS7 trunks are provisioned. It holds the SS7 CIC list.

Command Types

Show

Examples

```
show ss7-cic
```

Usage Guidelines

Primary Key Token(s): opc, dpc, trunk-id

Primary Key Token(s): trunk-id + opc + dpc + net-ap (Release 4.5)

Foreign Key Token(s): opc, dpc, trunk-id, tgn-id, call-ctrl-route-id

Foreign Key Token(s) trunk-id, tgn-id (Release 4.5)

Syntax Description

AUTO-REFRESH	Specifies whether to display cached data on the screen. Valid only for the show command. CHAR(1): Y/N (Default = Y). Y—Queries the database for the most current data. N—Queries the database for the most current data only if the cached data is unavailable.
CALL-CTRL-ROUTE-ID	Foreign key: Route Set table. Automatically provisioned from the Trunk Group table. **Note** As of Release 4.5, this token is no longer a Foreign key.
DISPLAY	Specifies what token information to display on the screen. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all tokens are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
DPC	Primary key. Foreign key: DPC table. The destination point code. VARCHAR(16): 1–16 ASCII characters. **Note** As of Release 4.5, this token is no longer a Foreign key.
LIMIT	Specifies the number of rows to display on the screen. Valid only for the show command. INTEGER: 1–100000000 (Default = 100000000). **Note** The actual maximum number of rows displayed is currently lower than 100000000 due to software limitations.
NET-AP	The network application. Automatically provisioned from DPC. INTEGER.

OPC	Primary key. Foreign key: OPC table. The origination point code. Automatically provisioned from the Route Set table, which is referenced by the Trunk Group table. VARCHAR(16): 1–16 ASCII characters. **Note** As of Release 4.5, this token is no longer a Foreign key.
ORDER	Specifies whether to display data on the screen in a sorted order. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all rows are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
START-ROW	Specifies to begin displaying data on the screen at a specific row. Valid only for the show command. INTEGER: 1–100000000 (Default = 1).
TGN-ID (or TG)	Mandatory if term-type=term. Foreign key: Trunk Group table. Trunk group ID. This field can also be provisioned using tg instead of tgn-id. The EMS looks up the tgn-id based on the trunk group and then provisions it. INTEGER: 1–99999999.
TRUNK-ID (System generated)	Primary key. Foreign key: Trunk table. Identifies the trunk ID. Constructed from the CIC start and CIC end tokens. INTEGER.

Signaling System 7 Q761 Trunk Group Profile

The Signaling System 7 Q761 Trunk Group Profile (ss7-q761-tg-profile) table holds common information regarding an SS7 Q761 trunk group such as continuity test (COT). This table can be shared by multiple SS7 Q761 trunk groups.

Table Name: SS7-Q761-TG-PROFILE

Table Containment Area: Call Agent

Command Types

Show, add, change, and delete

Examples

```
show ss7-q761-tg-profile id=q761-tg-prof1;
add ss7-q761-tg-profile id=q761-tg-prof1; cot-duration=20;
change ss7-q761-tg-profile id=q761-tg-prof1; cot-duration=3;
delete ss7-q761-tg-profile id=q761-tg-prof1;
```

Usage Guidelines

Primary Key Token(s): id

Add Rules: Id cannot exist.

Change Rules: Id must exist.

Delete Rules: Id cannot exist in any dependency table.

Syntax Description

* ID	Primary key. The Q761 trunk group profile ID. VARCHAR(16): 1–16 ASCII characters.
ALARM-CARRIER	Specifies whether the trunk group is an alarm carrier. VARCHAR(16): 1–16 ASCII characters. Permitted values are: UNKNOWN (Default)—It is unknown what type of alarm carrier the trunk group supports. SOFTWARE—The trunk group supports software carrier group alarm. HARDWARE—The trunk group supports hardware carrier alarm.
AOC-ENABLED (Release 4.5.1)	Specifies whether to generate or validate CRG messages. CHAR(1): Y/N (Default = N). Y—Generate of a CRG message for incoming trunks or validate a CRG message for outgoing trunks when a message is received by the Cisco BTS 10200 Softswitch. N—Do not generate a CRG message for incoming trunks or validate a CRG message for outgoing trunks when a message is received by the Cisco BTS 10200 Softswitch.
AUTO-REFRESH	Specifies whether to display cached data on the screen. Valid only for the show command. CHAR(1): Y/N (Default = Y). Y—Queries the database for the most current data. N—Queries the database for the most current data only if the cached data is unavailable.
CHARGE-ORIG	Specifies the charge origin. INTEGER: 0–9999 (Default = 0). INTEGER: 0–9999 (Default = 20). (Release 4.5)
CLDPTY-CTRL-REL-SUPP	Specifies whether called party controlled release is supported. CHAR(1): Y/N (Default = N).
CLI-DEFAULT-ALLOWED	Sets the presentation restricted field in the calling line identity (CLI). CHAR(1): Y/N (Default = N). Y—When set to Y and an incoming Q931 setup message has the presentation restricted indicator absent, then the presentation restricted indicator in the outgoing message (IAM or setup) is set to presentation allowed. N—When set to N and an incoming Q931 setup message has the presentation restricted indicator absent, then the presentation restricted indicator in the outgoing message (IAM or setup) is set to presentation restricted.
CLIP-ESS	Specifies whether to force a request of a calling line identity if not automatically provided. CHAR(1): Y/N (Default = N).

COL-DEFAULT-ALLOWED	Sets the presentation restricted field in the connected line identity. CHAR(1): Y/N (Default = N). Y—When set to Y and an incoming Q931 setup message has the presentation restricted indicator absent, then the presentation restricted indicator in the outgoing message (IAM or setup) is set to presentation allowed. N—When set to N and an incoming Q931 setup message has the presentation restricted indicator absent, then the presentation restricted indicator in the outgoing message (IAM or setup) is set to presentation restricted.
COT-DURATION	Duration of continuity test. SMALLINT: 1–60 (Default = 1).
COT-FREQ	Specifies whether to perform a continuity test on outgoing SS7 calls. The specified value indicates the number of calls that occur before the continuity test is performed. For example, if COT-FREQ is set to the value 1, a COT test is performed for every call. The value 7 indicates that the test is performed for every 7th call. If COT-FREQ is set to 100 (the maximum), a COT test is performed for 1 call out of 100 calls. SMALLINT: 0–100 (Default = 7). **Note** Implementation is on a per trunk basis—not a per trunk group basis.
COT-ORIG	Continuity test indicator on originating (outgoing) SS7 calls. CHAR(1): Y/N (Default = Y).
COT-TONE **Note** The Cisco BTS 10200 Softswitch does not support 2-wire side emulation in transponder COT testing.	Continuity tone. CHAR(8): 1–8 characters. Permitted values are: 4W-TO-2W (Default)—Tx Low (1780 Hz), Rx High (2010 Hz). 2W-TO-2W—Tx High (2010 Hz), Rx Low (1780 Hz). Not supported. 2W-TO-4W—Tx High (2010 Hz), Rx Low (1780 Hz) Not supported. 4W-TO-4W—Tx High (2010 Hz), Rx High (2010 Hz)
CPC-ESS	Set to Y to force request of calling party category if the calling party number is not provided in the IAM and the calling party category is required to override the original calling party category received in the IAM. CHAR(1): Y/N (Default = N).
CRG-ABILITY (Release 4.5.1)	Specifies whether a switch can generate a CRG message. CHAR(1): Y/N (Default = N). N—(Default) the succeeding switch cannot generate a CRG message. Y—the succeeding switch can generate a CRG message.
DESCRIPTION (EMS-only field)	Described by the service provider. VARCHAR(64): 1–64 ASCII characters.

DISPLAY	Specifies what token information to display on the screen. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all tokens are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
ECHO-SUPP-REQUIRED (Not supported)	Not supported in this release. Echo suppression required indicator. CHAR(1): Y/N (Default = N).
EXCHANGE-TYPE (Release 4.4.0)	Specifies the signaling originating and destination local exchange type. CHAR(1): A, B. Permitted values are: A—An End-to-End exchange. B—An exchange that acts as a transit node. NULL (Default)—Uses the value specified in the Call Agent Configuration table.
FORWARD-CLI-IN-IAM	Presence of CLI in outgoing IAM indicator. CHAR(1): Y/N (Default = N).
HOP-COUNTER	Number of SS7 hops allowed. The hop counter field is the number of contiguous SS7 interchange circuits remaining before the call must be completed. If the call is not completed within the required number of circuits, the call is released. SMALLINT: 0, 10–20 (Default = 20). **Note** 0—Not supported
INBAND-INFO	Specifies whether to send a release, provide a tone, or provide an announcement if data is available in the call. CHAR(1): Y/N (Default = N).
LIMIT	Specifies the number of rows to display on the screen. Valid only for the show command. INTEGER: 1–100000000 (Default = 100000000). **Note** The actual maximum number of rows displayed is currently lower than 100000000 due to software limitations.
ORDER	Specifies whether to display data on the screen in a sorted order. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all rows are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
OUTGOING-OVERLAP-MAX-DIGITS (Not supported)	Not supported in this release. Maximum number of overlap digits. SMALLINT: 0–24 (Default = 24).
OUTGOING-OVERLAP-MIN-DIGITS (Not supported)	Not supported in this release. Minimum number of overlap digits. SMALLINT: 0–24 (Default = 24).

OVERDECADIC-DIGIT-SUPP	Overdecadic digits support indicator. CHAR (1): Y/N (Default = N).
OVERLAP-SUPP	Overlap signaling for call origination support indicator. VARCHAR(16): 1–16 ASCII characters. Permitted values are: NONE (Default) OUTGOING INCOMING BOTH
PASS-UNREC-PARAM-WITH OUT-PCI (Release 4.5)	Specifies the handling of unrecognized parameters in ISUP messages without a corresponding PCI. CHAR(1): Y/N (Default = N). Y—if the Cisco BTS10200 Softswitch receives an ISUP message with an unrecognized parameter without a corresponding PCI, it passes on the parameter if the exchange type is B. The Cisco BTS 10200 Softswitch drops the parameter if the exchange type is A and sends a PCN back to the preceding switch (if PCN is supported in the protocol). N—if the Cisco BTS 10200 Softswitch receives a parameter without PCI, it sends a CFN to the sending exchange and drops the parameter (if CFN is supported in the protocol).
REDIR-MAX	Specifies the maximum number of redirections. SMALLINT: 1–10 numeric digits (Default = 5).
ROUTE-ID	Route ID to overwrite the ID received in RIN parameter in the IAM from the OCC side. INTEGER: 0–65355 (Default = 0).
SATELLITE-CIRCUIT (Not supported)	Not supported in this release. Satellite circuit indicator. CHAR(1): Y/N (Default = N).
START-ROW	Specifies to begin displaying data on the screen at a specific row. Valid only for the show command. INTEGER: 1–100000000 (Default = 1).
SUPPRESS-CLI-DIGITS	Suppresses the calling party number indicator. CHAR(1): Y/N (Default = N).
T1	Timer if sending release (REL), awaiting RLC; shorter timer used for retransmission. SMALLINT: 4–15 seconds (Default = 4).
T2	Suspend user message timer. SMALLINT: 0–180 seconds (Default = 180).
T4 (Release 4.5)	The interval in seconds between sending UPT messages when a UPU has been received. It stops when the BTS 10200 receives a UPA or any other ISUP Layer 4 message indicating that the UPU condition is over. SMALLINT: 5–15 (Default = 5).

T5	Release message repeat timer. SMALLINT: 300–900 seconds (Default = 300).
T6	Suspend network message timer. SMALLINT: 2–120 seconds (Default = 120).
T8	CCR in IAM timer. SMALLINT: 10–15 seconds (Default = 10).
T9	Ring no answer timer. SMALLINT: 60–180 seconds (Default = 120).
T7	Sent IAM, waiting for ACM/ANM/REL. SMALLINT: 20–30 seconds (Default = 30).
T12	Timer when sending BLO or UBL, awaiting BLA or UBA; shorter timer used for retransmission. SMALLINT: 4–15 seconds (Default = 15).
T13	Blocking message repeat timer. SMALLINT: 300–900 seconds (Default = 360).
T14	Unblocking message timer. SMALLINT: 4–15 seconds (Default = 15).
T15	Unblocking message repeat timer. SMALLINT: 300–900 seconds (Default = 300).
T16	Reset circuit message timer. SMALLINT: 4–15 seconds (Default = 5).
T17	Reset circuit message repeat timer. SMALLINT: 300–900 seconds (Default = 300).
T18	Group blocking message timer. SMALLINT: 4–15 seconds (Default = 15).
T19	Group blocking message repeat timer. SMALLINT: 300–900 seconds (Default = 300).
T20	Group unblocking message timer. SMALLINT: 4–15 seconds (Default = 15).
T21	Group unblocking message repeat timer. SMALLINT: 300–900 seconds (Default = 300).
T22	Timer for when sending second GRS, awaiting GRA. SMALLINT: 4–15 seconds (Default = 15).
T23	GRS message repeat timer. SMALLINT: 300–900 seconds (Default = 300).
T24	Check tone message timer. SMALLINT: 0–2 seconds (Default = 2).
T25	Initial COT failure message timer. SMALLINT: 1–10 seconds (Default = 2).

T26	Second or subsequent COT failure message timer. SMALLINT: 60–180 seconds (Default = 180).
T27	CCR failure received message timer. SMALLINT: 180–240 seconds (Default = 240).
T28	CQM message timer. SMALLINT: 0–15 seconds (Default = 10).
T33	INR message timer. SMALLINT: 12–15 seconds (Default = 12).
T35	Timer for the receipt of latest digit (<> stop digit) and before the minimum or fixed number of digits have been received. SMALLINT: 15–20 seconds (Default = 15).
T36	Continuity request check message received. SMALLINT: 10–15 seconds (Default = 10).
T38	Suspend message timer. SMALLINT: 0–180 seconds (Default = 130).
T39	Identification request message timer. SMALLINT: 4–15 seconds (Default = 15).

Signaling System 7 Q767 Trunk Group Profile

The Signaling System 7 Q767 Trunk Group Profile (ss7-q767-tg-profile) table holds common information regarding an SS7 Q767 trunk group. This table can be shared by multiple Q767 trunk groups.

Table Name: SS7-Q767-TG-PROFILE

Table Containment Area: Call Agent

Command Types

Show, add, delete, and change

Examples

```
show ss7-q767-tg-profile id=q767-prof1;
add ss7-q767-tg-profile id=q767-prof1; cot-duration=21;
change ss7-q767-tg-profile id=q767-prof1; cot-duration=4;
delete ss7-q767-tg-profile id=q767-prof1
```

Usage Guidelines

Primary Key Token(s): id

Add Rules: id must not exist.

Change Rules: id must exist.

Delete Rules: id must exist; it must not be referenced by any trunk group table.

Syntax Description

* ID	Primary key. The SS7 Q767 trunk group profile ID. VARCHAR(16): 1–16 ASCII characters.
T17	Reset circuit message repeat timer. SMALLINT: 300–900 seconds (Default = 300).
T39	Identification Request message timer. SMALLINT: 4–15 seconds (Default = 15).
ALARM-CARRIER	Alarm Carrier. VARCHAR(16): 1–16 ASCII characters. Permitted values are: UNKNOWN (Default) SOFTWARE HARDWARE
AUTO-REFRESH	Specifies whether to display cached data on the screen. Valid only for the show command. CHAR(1): Y/N (Default = Y). Y—Queries the database for the most current data. N—Queries the database for the most current data only if the cached data is unavailable.
CHARGE-ORIG	Specifies the charge origin. The service provider specifies the value of charge origin. INT: 0–9999 (Default = 0). INTEGER: 0–9999 (Default = 20). (Release 4.5)
CLDPTY-CTRL-REL-SUPP	Enables called party controlled release support. CHAR(1): Y/N (Default = N).
CLI-DEFAULT-ALLOWED	Sets the presentation restricted field in the calling line identity (CLI). CHAR(1): Y/N (Default = N). Y—When set to Y and an incoming Q931 setup message has the presentation restricted indicator absent, then the presentation restricted indicator in the outgoing message (IAM or setup) is set to presentation allowed. N—When set to N and an incoming Q931 setup message has the presentation restricted indicator absent, then the presentation restricted indicator in the outgoing message (IAM or setup) is set to presentation restricted.
CLIP-ESS	Set to Y to force request of calling line identity if not automatically provided. CHAR(1): Y/N (Default = N).

COL-DEFAULT-ALLOWED	Sets the presentation restricted field in the connected line identity. CHAR(1): Y/N (Default = N). Y—When set to Y and an incoming Q931 setup message has the presentation restricted indicator absent, then the presentation restricted indicator in the outgoing message (IAM or setup) is set to presentation allowed. N—When set to N and an incoming Q931 setup message has the presentation restricted indicator absent, then the presentation restricted indicator in the outgoing message (IAM or setup) is set to presentation restricted.
COT-DURATION	Duration of continuity test. SMALLINT: 1–60 (Default = 1).
COT-FREQ	COT percentage. SMALLINT: 0–100 (Default = 7). **Note** Implementation is on a per trunk basis—not a per trunk group basis.
COT-ORIG	Continuity test indicator on originating (outgoing) SS7 calls. CHAR(1): Y/N (Default = Y).
COT-TONE	Continuity Tone. VARCHAR(8): Permitted values are: 4W-TO-4W (Default) 2W-TO-2W 2W-TO-4W 4W-TO-2W
CPC-ESS	Set to Y to force request of calling party category if the calling party number is not provided in the IAM and the calling party category is required to override the original calling party category received in the IAM. CHAR(1): Y/N (Default = N).
DESCRIPTION	Described by the service provider. VARCHAR(64): 1–64 ASCII characters.
DISPLAY	Specifies what token information to display on the screen. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all tokens are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
ECHO-SUPP-REQUIRED	Echo suppression required indicator. CHAR(1): Y/N (Default = N).
EXCHANGE-TYPE (Release 4.5)	Specifies the signaling originating and destination local exchange type. CHAR(1): A, B. Permitted values are: A—An End-to-End exchange. B—An exchange that acts as a transit node. NULL (Default)—Uses the value specified in the Call Agent Configuration table.

FORWARD-CLI-IN-IAM	Presence of CLI in outgoing IAM indicator. CHAR(1): Y/N (Default = N).
HOP-COUNTER	Number of SS7 hops allowed. SMALLINT: 0, 10–20 (Default = 20). **Note** 0 = Not supported.
INBAND-INFO	Specifies whether to send a release, provide a tone, or provide an announcement if data is available in the call. CHAR(1): Y/N (Default = N).
LIMIT	Specifies the number of rows to display on the screen. Valid only for the show command. INTEGER: 1–100000000 (Default = 100000000). **Note** The actual maximum number of rows displayed is currently lower than 100000000 due to software limitations.
ORDER	Specifies whether to display data on the screen in a sorted order. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all rows are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
OUTGOING-OVERLAP-MAX-DIGITS	Maximum number of overlap digits. SMALLINT: 0–24 (Default = 24).
OUTGOING-OVERLAP-MIN-DIGITS (Not supported)	Minimum number of overlap digits. SMALLINT: 0–24 (Default = 0).
OVERDECADIC-DIGIT-SUPP	Overdecadic digits support indicator. CHAR (1): Y/N (Default = N).
OVERLAP-SUPP	Overlap signaling for call origination support indicator. VARCHAR(16): 1–16 ASCII characters. Permitted values are: NONE (Default) OUTGOING INCOMING BOTH
REDIR-MAX	Specifies the maximum number of redirections. SMALLINT: 1–10 (Default = 5).
ROUTE-ID	Route ID to overwrite the ID received in the RIN parameter in the IAM from the OCC side. INT: 0–65355 (Default = 0).
SATELLITE-CIRCUIT (Not supported)	Satellite circuit indicator. CHAR(1): Y/N (Default = N).

START-ROW	Specifies to begin displaying data on the screen at a specific row. Valid only for the show command. INTEGER: 1–100000000 (Default = 1).
SUPPRESS-CLI-DIGITS	Suppresses the calling party number indicator. CHAR(1): Y/N (Default = N).
T1	When sending REL (release), awaiting RLC; shorter timer used for retransmission. SMALLINT: 15–60 seconds (Default = 15).
T2	Suspend user message timer. SMALLINT: 0–180 seconds (Default = 180).
T5	Release message repeat timer. SMALLINT: 300–900 seconds (Default = 300).
T6	Suspend network message timer. SMALLINT: 2–120 seconds (Default = 120).
T7	Sent IAM, waiting for ACM/ANM/REL. SMALLINT: 20–30 seconds (Default=30).
T8	CCR in IAM timer. SMALLINT: 10–15 seconds (Default = 10).
T9	Ring no answer timer. SMALLINT: 60–180 seconds (Default = 120).
T12	When sending BLO (Blocking) or UBL, awaiting BLA or UBA; shorter timer used for retransmission. SMALLINT: 15–60 seconds (Default = 15).
T13	Blocking message repeat timer. SMALLINT: 300–900 seconds (Default = 360).
T14	Unblocking message timer. SMALLINT: 4–15 seconds (Default = 15).
T15	Unblocking message repeat timer. SMALLINT: 300–900 seconds (Default = 300).
T16	Reset circuit message timer. SMALLINT: 4–15 seconds (Default = 5).
T18	Group blocking message timer. SMALLINT: 4–15 seconds (Default = 15).
T19	Group blocking message repeat timer. SMALLINT: 300–900 seconds (Default = 300).
T20	Group unblocking message timer. SMALLINT: 4–15 seconds (Default = 15).
T21	Group unblocking message repeat timer. SMALLINT: 300–900 seconds (Default = 300).

T22	When sending second GRS (circuit group reset), awaiting GRA. SMALLINT: 15–60 seconds (Default = 15).
T23	GRS message repeat timer. SMALLINT: 300–900 seconds (Default = 300).
T24	Check tone message timer. SMALLINT: 0–2 seconds (Default = 2).
T25	Initial COT failure message timer. SMALLINT: 1–10 seconds (Default = 2).
T26	Second or subsequent COT failure message timer. SMALLINT: 60–180 seconds (Default = 180).
T27	CCR failure received message timer. SMALLINT: 180–240 seconds (Default = 240).
T28	CQM message timer. SMALLINT: 0–15 seconds (Default = 10).
T33	INR message timer. SMALLINT: 12–15 seconds (Default = 12).
T35	At receipt of latest digit (<> STOP DIGIT) and before the minimum or fixed number of digits have been received. SMALLINT: 15–20 seconds (Default = 15).
T36	Continuity Request Check message received timer. SMALLINT: 10–15 seconds (Default = 10).
T38	Suspend message timer. SMALLINT: 0–120 seconds (Default = 120).

Stream Control Transmission Protocol Association

The Stream Control Transmission Protocol (SCTP) Association (sctp-assoc) table identifies the association between local and remote signaling gateway platforms (SGPs).

Table Name: SCTP-ASSOC

Table Containment Area: Call Agent, FSPTC, FSAIN

Command Types

Show, add, change, and delete

Examples

```
show sctp-assoc id=sctpassoc1;
add sctp-assoc id=sctpassoc1; sgp-id=sg1;
change sctp-assoc id=sctpassoc1; sgp-id=sg2;
delete sctp-assoc id=sctpassoc1;
```

Note See the section "Stream Control Transmission Protocol Association Control and Status Commands" in Chapter 1, "Administration, Diagnostic, and Maintenance Commands" for the SCTP status and control commands.

Usage Guidelines

Primary Key Token(s): id

Unique Index Token(s): remote-port, remote-tsap-addr1, remote-tsap-addr2

Foreign Key Token(s): sctp-assoc-profile-id, http-feature-server-id, sgp-id

Add Rules:

- The id cannot exist.
- The SGP-ID must exist.
- Provisioning multiple SCTP associations to the same SGP over the same port/tsap-address combination is not allowed. (Release 4.5)
- The DSCP token and IP-TOS-PRECEDENCE tokens in this table are interdependent (Obsolete in Release 4.5):
  - If DSCP is set to NONE (= 0, best effort), and IP-TOS-PRECEDENCE is set to ROUTINE (= 0), the system uses the TOS precedence value of 0.
  - If DSCP is set to NONE (= 0, best effort), and IP-TOS-PRECEDENCE is set to a value other than ROUTINE, the system uses the provisioned IP-TOS-PRECEDENCE value.
  - If IP-TOS-PRECEDENCE is set to ROUTINE (= 0), and DSCP is set to a value other than NONE, the system uses the provisioned DSCP value.

Change Rules:

- The id must exist. The SCTP association must be in OOS state when being modified.
- Id, platform-id, ulp, http-feature-server-id and status cannot be changed.
- The sgp-id cannot be changed.

Delete Rules: id cannot exist in any dependency table.

Other Rules:

- If a DNS name is used instead of specifying a discrete local IP address, validation is done to make sure that DNS name corresponds to an actual IP address.

Note This validation is not an EMS or CLI function. The validation is done by the application. That is, an invalid DNS (or IP) can be successfully provisioned for the http-feature-server, remote-tsap-addr1 and remote-tsap-addr2 tokens since validation does not occur at provisioning time. The validation is done when sctp-assoc functions are called by a user application.

- If a DNS name is used instead of specifying a discrete local IP address, validation is done to make sure that DNS name corresponds to an actual IP address.

Note This validation is not an EMS or CLI function. The validation is done by the application. That is, an invalid DNS (or IP) can be successfully provisioned for the http-feature-server, remote-tsap-addr1 and remote-tsap-addr2 tokens since validation does not occur at provisioning time. The validation is done when sctp-assoc functions are called by a user application.

- If the user chooses to enter IP addresses instead of host names for remote-tsap-addr1 and remote-tsap-addr2, they must be in valid IP address format.

- The remote-tsap-addr1 and remote-tsap-addr2 cannot be the same.
- If the DSCP is not N/A, ip-tos-precedence must be set to routine. If ip-tos-precedence is not routine, then the DSCP must be set to N/A.

Syntax Description

* ID	Primary key. SCTP association id. VARCHAR(16): 1–16 ASCII characters.
* PLATFORM-ID	Specifies the platform id (must be a valid Call Agent or Feature Server ID). VARCHAR(8): 1–8 ASCII characters.
* REMOTE-PORT	Unique key. Specifies the remote port. SMALLINT: 1024–65535. **Note** REMOTE_TSAP_ADDR1 and REMOTE_PORT should be unique.
* REMOTE-TSAP-ADDR1	Unique key. Specifies the first remote TSAP address. VARCHAR(64): 1–64 ASCII characters.
* SCTP-ASSOC-PROFILE-ID	Foreign key: SCTP Association Profile table. The SCTP association profile id. VARCHAR(16): 1–16 ASCII characters.
* ULP	Specifies the upper layer protocol. VARCHAR(16): 1–16 ASCII characters. Permitted values are: XUA (Default) HTTP
AUTO-REFRESH	Specifies whether to display cached data on the screen. Valid only for the show command. CHAR(1): Y/N (Default = Y). Y—Queries the database for the most current data. N—Queries the database for the most current data only if the cached data is unavailable.
DESCRIPTION	Described by the service provider. VARCHAR(64): 1–64 ASCII characters.
DISPLAY	Specifies what token information to display on the screen. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all tokens are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.

DSCP (Obsolete in Release 4.5. Use the Call Agent Configuration parameter SCTP-DSCP instead.)	The differentiated services code point. This value is placed in the DSCP portion of the type of service field for outgoing SCTP datagrams. VARCHAR(16): 1–16 ASCII characters. Permitted values are: **Note** NONE, AFxx, and EF are as shown in the following list. DSCP values and service levels are provided here for information purposes only. NONE (Default)—DSCP = 0, Best effort AF11—DSCP = 10, Class 1 gold AF12—DSCP = 12, Class 1 silver AF13—DSCP = 14, Class 1 bronze AF21—DSCP = 18, Class 2 gold AF22—DSCP = 20, Class 2 silver AF23—DSCP = 22, Class 2 bronze AF31—DSCP = 26, Class 3 gold AF32—DSCP = 28, Class 3 silver AF33—DSCP = 30, Class 3 bronze AF41—DSCP = 34, Class 4 gold AF42—DSCP = 36, Class 4 silver AF43—DSCP = 38, Class 4 bronze EF—DSCP = 40, Express forwarding
HTTP-FEATURE-SERVER-ID	Mandatory if ulp=http. Foreign key: HTTP Feature Server table. The HTTP feature server id. VARCHAR(8): 1–8 ASCII characters. (Release 4.5)
IP-TOS-PRECEDENCE (Obsolete in Release 4.5.)	The Internet protocol precedence. This value is placed in the IP precedence portion of the type of service field for outgoing SCTP datagrams. VARCHAR(16): 1–16 ASCII characters. Permitted values are: FLASH (= 3, Default) ROUTINE (= 0) PRIORITY (= 1) IMMEDIATE (= 2) FLASHOVERRIDE (= 4) CRITICAL (= 5) INTERNETCONTROL (= 6) NETCONTROL (= 7)

LIMIT	Specifies the number of rows to display on the screen. Valid only for the show command. INTEGER: 1–100000000 (Default = 100000000). **Note** The actual maximum number of rows displayed is currently lower than 100000000 due to software limitations.
LOCAL-RCVWIN	Number of bytes to advertise for the local receive window. INTEGER: Range 1500–65535 bytes (Default = 3000).
MAX-INIT-RETRANS	Maximum number of times to retransmit an SCTP INIT message. SMALLINT: 1–5 (Default = 3).
MAX-INIT-RTO	Maximum initial timer retransmission value in milliseconds. SMALLINT: 500–3000 (Default = 500). SMALLINT:1000–3000 (Default = 1000). (Release 4.5)
ORDER	Specifies whether to display data on the screen in a sorted order. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all rows are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
REMOTE-TSAP-ADDR2	Unique key. Specifies the second remote TSAP address. VARCHAR(64): 1–64 ASCII characters.
SGP-ID	Mandatory if ulp=xua. Foreign key: SGP table. Signaling Gateway Process ID. VARCHAR(16): 1–16 ASCII characters.
START-ROW	Specifies to begin displaying data on the screen at a specific row. Valid only for the show command. INTEGER: 1–100000000 (Default = 1).
STATUS (System generated)	Administrative status of the SCTP. VARCHAR(5): 1–5 ASCII characters. Permitted values are: OOS (Default)—Out-of-Service. INS—In-Service. OOS-PENDING—The request to put SGP in OOS state is pending.

Stream Control Transmission Protocol Association Profile

The Stream Control Transmission Protocol (SCTP) Association Profile (sctp-assoc-profile) table stores the configuration parameters that can be referenced by an SCTP association.

Table Name: SCTP-ASSOC-PROFILE

Table Containment Area: Call Agent

Command Types

Show, add, change, and delete

Examples

```
show sctp-assoc-profile id=sctpassocprof1;
add sctp-assoc-profile id=sctpassocprof1;
change sctp-assoc-profile id=sctpassocprof1;
delete sctp-assoc-profile id=sctpassocprof1;
```

Usage Guidelines

Primary Key Token(s): id

Add Rules: ID cannot already exist.

Change Rules: ID must exist.

Delete Rules: ID must exist.

Syntax Description

* ID	The SCTP association profile identifier. VARCHAR(16): 1–16 ASCII characters.
BUNDLE-TIMEOUT	Maximum time, in milliseconds, that an SCTP waits for outgoing datagrams for bundling. INTEGER: 0–600 (Default = 0).
DESCRIPTION	Described by the service provider. VARCHAR(64): 1–64 ASCII characters.
HB-TIMEOUT	Time, in milliseconds, between heartbeats. The heartbeat will be this value plus the current retransmission timeout value. This token cannot be changed. INTEGER: 0–10000 (Default = 2000); 0 = Disabled.
MAX-ASSOC-RETRANS	Maximum number of retransmissions over all destination addresses before the association is declared failed. SMALLINT: (Default = 4). **Note** This value cannot exceed max-path-retrans=x, where x is number of destinations.
MAX-PATH-RETRANS	Maximum number of retransmissions to either remote TSAP address1 or TSAP address2 before the association is declared failed. This token cannot be changed. INTEGER: 2–6 (Default = 3).

MAX-RTO	Maximum value, in milliseconds, for the retransmission timer. INTEGER: 1000–10000 (Default = 3000). INTEGER: 1000–10000 (Default = 2000). (Release 4.5)
MIN-RTO	Minimum value, in milliseconds, configurable for the retransmission timer. INTEGER: 300–60000 (Default = 300).
RETRIEVE-FLAG	Indicates if the ULP wants to be able to retrieve datagrams after the association fails. CHAR(1): Y/N (Default = Y).
SACK-TIMEOUT	Maximum time, in milliseconds, after a datagram is received before an SCPT SACK is sent. INTEGER: 100–500 (Default = 200).
AUTO-REFRESH	Specifies whether to display cached data on the screen. Valid only for the show command. CHAR(1): Y/N (Default = Y). Y—Queries the database for the most current data. N—Queries the database for the most current data only if the cached data is unavailable.
DISPLAY	Specifies what token information to display on the screen. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all tokens are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
LIMIT	Specifies the number of rows to display on the screen. Valid only for the show command. INTEGER: 1–100000000 (Default = 100000000). **Note** The actual maximum number of rows displayed is currently lower than 100000000 due to software limitations.
ORDER	Specifies whether to display data on the screen in a sorted order. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all rows are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
START-ROW	Specifies to begin displaying data on the screen at a specific row. Valid only for the show command. INTEGER: 1–100000000 (Default = 1).

Subsystem

The Subsystem (subsystem) table holds the information for all the subsystems using signaling connection control part (SCCP). The Subsystem table also defines all local and remote SSNs at the OPC level. Because the Cisco BTS 10200 Softswitch supports multiple origination point codes (OPCs), the combined OPC-ID and SSN-ID is used as a primary key to determine subsystem information.

Table Name: SUBSYSTEM

Table Containment Area: FSPTC, FSAIN

Command Types

Show, add, and delete

Examples

```
show subsystem id=SSN1;
add subsystem id=SSN1;opc-id=dallas-pc; local-ssn=251; remote-ssn=251; sccp-nw-id=1;
tcap-version=ANS92; application-version=AIN01
delete subsystem id=SSN1; opc-id=dallas-pc;
```

Note See the section "Subsystem Group Status and Control Commands (Release 4.5)" in Chapter 1, "Administration, Diagnostic, and Maintenance Commands" for the status and control commands.

Usage Guidelines

Primary Key Token(s): id, opc-id

Foreign Key Token(s): id, sccp-nw-id, opc-id

Unique Key Token(s): opc-id plus the local-ssn

Add Rules: Id must exist in the Subsystem Profile table.

Change Rules: Change for all fields (except description) is allowed only if status=OOS.

Delete Rules: The id of the subsystem cannot exist in any dependency table.

Syntax Description

* ID	Primary key. Foreign key: Subsystem Group table. Subsystem ID. VARCHAR(16): 1–16 ASCII characters.
* OPC-ID	Primary key. Unique key with local-snn. Foreign key: OPC table. OPC ID from the OPC table. VARCHAR(16): 1–16 ASCII characters.
* LOCAL-SSN	Unique key with opc-id. Local subsystem number. SMALLINT: 1–255.
* REMOTE-SSN	Remote subsystem number. SMALLINT: 1–255.
* SCCP-NW-ID	Foreign key: SCCP-NW table. SCCP network ID. SMALL INT: 1–255.

* TCAP-VERSION (Obsolete in Release 4.5)	Specifies the Transaction Capability Application Part (TCAP) version to use. VARCHAR(8): 1–8 ASCII characters. Permitted values are: ANS88 ANS92 ANS96 ITU88 ITU92 ITU96 CHINA ETSI96
* APPLICATION-VERSION	Specifies the TCAP protocol version to use in the query message. VARCHAR(16): 1–16 ASCII characters. Permitted values are: AIN02 (Not used) QWEST-AIN02 (Not used) AIN01 IN1 ETSI-INAP (Not used) ITU-INAP (Not used)
AUTO-REFRESH	Specifies whether to display cached data on the screen. Valid only for the show command. CHAR(1): Y/N (Default = Y). Y—Queries the database for the most current data. N—Queries the database for the most current data only if the cached data is unavailable.
DISPLAY	Specifies what token information to display on the screen. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all tokens are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
LIMIT	Specifies the number of rows to display on the screen. Valid only for the show command. INTEGER: 1–100000000 (Default = 100000000). **Note** The actual maximum number of rows displayed is currently lower than 100000000 due to software limitations.
OPER-STATUS (DBM only)	Operating status of the subsystem. VARCHAR(16): 1–16 ASCII characters. Permitted values are: SSA—Subsystem allowed. SSP—Subsystem prohibited.

ORDER	Specifies whether to display data on the screen in a sorted order. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all rows are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
SCCP-VERSION	Specifies the SCCP version to use. VARCHAR(5): 1–5 ASCII characters (Default = ANS92). Permitted values are: ANS88 ANS92 (Default) ITU88 (Not supported) ITU92 (Not supported) ITU96 (Not supported) CHINA (Not supported)
START-ROW	Specifies to begin displaying data on the screen at a specific row. Valid only for the show command. INTEGER: 1–100000000 (Default = 1).
STATUS	Administrative status of the subsystem. VARCHAR(3): 1–3 ASCII characters. Permitted values are: UIS—User in service. UOS (Default)—User out of service. VIA—Via control command. **Note** The value VIA can only be changed using the control command.

Subsystem Group (Release 4.5)

The Subsystem Group (subsystem-grp) table defines all the valid subsystem group ids at a global (Cisco BTS 10200 Softswitch) level. A subsystem group id must be created in this table before entries can be added to the Subsystem table.

Table Name: SUBSYSTEM-GRP

Table Containment Area: FSPTC, FSAIN

Command Types

Show, add, change, and delete

Examples

```
show subsystem-grp id=LNP-SSN;
add subsystem-grp id=LNP-SSN; platform-id=FSAIN123; tcap-version=ITU92;
change subsystem-grp id=LNP-SSN; platform-id=FSAIN321;tcap-version=ITU96;
delete subsystem-grp id=LNP-SSN; tcap-version=ITU962;
```

Usage Guidelines

Primary Key Token(s): id

Foreign Key Token(s): platform-id

Add Rules: Id cannot exist.

Change Rules: None.

Delete Rules: The id of the subsystem cannot exist in any dependency table.

Syntax Description

* ID	Primary key. Subsystem group ID. VARCHAR(16): 1–16 ASCII characters.
* PLATFORM-ID	Foreign key: Feature Server table. Platform ID (must be a valid Call Agent or Feature Server ID). VARCHAR(16): 1–16 ASCII characters.
* TCAP-VERSION	Specifies the Transaction Capability Application Part (TCAP) version to use. VARCHAR(8): 1–8 ASCII characters. Permitted values are: ANS88 ANS92 ANS96 ITU88 ITU92 ITU96 CHINA ETSI96

AUTO-REFRESH	Specifies whether to display cached data on the screen. Valid only for the show command. CHAR(1): Y/N (Default = Y). Y—Queries the database for the most current data. N—Queries the database for the most current data only if the cached data is unavailable.
DESCRIPTION	Described by the service provider. VARCHAR(64): 1–64 ASCII characters.
DISPLAY	Specifies what token information to display on the screen. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all tokens are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
LIMIT	Specifies the number of rows to display on the screen. Valid only for the show command. INTEGER: 1–100000000 (Default = 100000000). **Note** The actual maximum number of rows displayed is currently lower than 100000000 due to software limitations.
OPER-STATUS	The operating status. VARCHAR(16): 1–16 ASCII characters. Permitted values are: SSA—Subsystem Allowed SSP—Subsystem Prohibited
ORDER	Specifies whether to display data on the screen in a sorted order. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all rows are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
START-ROW	Specifies to begin displaying data on the screen at a specific row. Valid only for the show command. INTEGER: 1–100000000 (Default = 1).
STATUS	Administrative status of the subsystem group. VARCHAR(3): 1–3 ASCII characters. Permitted values are: UIS—User in service. UOS (Default)—User out of service. VIA—Via control command. **Note** The value VIA can only be changed using the control command.

Subsystem Profile (Obsolete in Release 4.5)

The Subsystem Profile (subsystem-profile) table defines the valid SSN-IDs at a global (Cisco BTS 10200 Softswitch) level for multiple origination point code (OPC) support. A subsystem profile id must be created in this table before entries can be added to the Subsystem table.

Table Name: SUBSYSTEM-PROFILE

Table Containment Area: FSPTC, FSAIN

Command Types

Show, add, change, and delete

Examples

```
show subsystem-profile id=LNP-SSN;
add subsystem-profile id=LNP-SSN; platform-id=FSAIN123;
change subsystem-profile id=LNP-SSN; platform-id=FSAIN321;
delete subsystem-profile id=LNP-SSN;
```

Usage Guidelines

Primary Key Token(s): id

Foreign Key Token(s): platform-id

Add Rules: Id cannot exist.

Change Rules: Only the description token can be changed.

Delete Rules: The id of the subsystem cannot exist in any dependency table.

Syntax Description

* ID	Primary key. Subsystem profile ID. VARCHAR(16): 1–16 ASCII characters.
* PLATFORM-ID	Foreign key: Feature Server table. Platform ID (must be a valid Call Agent or Feature Server ID). VARCHAR(16): 1–16 ASCII characters.
DESCRIPTION	Described by the service provider. VARCHAR(64): 1–64 ASCII characters.

User Part Variant

The User Part Variant (user-part-variant) table defines the ISUP variants. It is a two-part table. The User Part Variant Base table defines all the supported variants and the values of the optional parameters. When a variant is added, the values of the optional parameters are populated from the User Part Variant Base table.

Table Name: USER-PART-VARIANT

Table Containment Area: Call Agent

Command Types

Show, add, and delete

Examples

```
show user-part-variant id=Q761-CHINA
add user-part-variant id=ANSISS7-GR317;
delete user-part-variant id=ANSISS7-GR317;
```

Usage Guidelines

Primary Key: id

Add Rules: Id cannot exist.

Delete Rules: Id cannot exist in any dependency table.

Syntax Description

* ID	Primary key. The variant id in the format: <protocol family>-<variant-name>. The Message Definition Language (MDL) uses this id as part of the message definition object (MDO) filename. VARCHAR(32): 1–32 ASCII characters. Permitted values are: ANSISS7-GR317 Q761-BASE Q761-CHINA Q761-STANDARD (Release 4.4.1) Q761-ETSIV2-POLAND (Release 4.5.1) Q761-ETSIV3-FRENCH (Release 4.5.1) Q761-ETSIV3 (Base ETSI v3 variant) (Release 4.5) Q761-ETSIV3-HUNGARY (Hungarian variant) (Release 4.5) Q761-STANDARD97 (Q.761 base variant—97 version) (Release 4.5) Q767-BASE-Q7674.1 Q767-MEXICO-Q7674.1 (Release 4.5.1) Q767-COLOMBIA (Q.767 variant) (Release 4.5.1)

AUTO-REFRESH	Specifies whether to display cached data on the screen. Valid only for the show command. CHAR(1): Y/N (Default = Y). Y—Queries the database for the most current data. N—Queries the database for the most current data only if the cached data is unavailable.
DISPLAY	Specifies what token information to display on the screen. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all tokens are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
LIMIT	Specifies the number of rows to display on the screen. Valid only for the show command. INTEGER: 1–100000000 (Default = 100000000). **Note** The actual maximum number of rows displayed is currently lower than 100000000 due to software limitations.
MAX-BLOCK-MASTER-RANGE (Not provisionable—provisioned in the User Part Variant Base table)	Maximum number of masters (or individuals) calls in a block at one time. INTEGER: 1–32767 (Default = 1).
MAX-BLOCK-SLAVE-RANGE (Not provisionable—provisioned in the User Part Variant Base table)	Maximum number of slave calls in a block at one time. INTEGER: 1–32767 Default = 23 (ANSISS7_GR317). Default = 30 (Q761-ETSIV2-ISRAEL) (Not supported) Default = 31 (Q761-ARGENTINA) Default = 31 (Q761-ARGENTINA-C2) Default = 31 (Q761-AUSTRALIAN) (Not supported) Default = 31 (Q761-CHILE) (Not supported) Default = 31 (Q761-CHINA) Default = 31 (Q761-ETSIV2) Default = 31 (Q761-ETSIV3) Default = 31 (Q761-ETSIV3-HUNGARY) Default = 31 (Q761-HONGKONG) Default = 31 (Q761-STANDARD) Default = 31 (Q761-STANDARD97) Default = 31 (Q761-THAILAND) Default = 31 (Q767-BRAZIL) Default = 31 (Q767-MEXICO) Default = 31 (Q767-STANDARD)

MAX-PARALLEL-JOBS (Not provisionable—provisioned in the User Part Variant Base table)	Number of parallel channel management jobs that can be signaled by subsequent passes through the channel management queue. INTEGER: 1–32767 (Default = 10).
MAX-RESET-MASTER-RANGE (Not provisionable—provisioned in the User Part Variant Base table)	Maximum number of masters (or individuals) calls in reset at one time. INTEGER: 1–32767 (Default = 1).
MAX-RESET-SLAVE-RANGE (Not provisionable—provisioned in the User Part Variant Base table)	Maximum number of slave calls in reset at one time. INTEGER: 1–32767 Default = 23 (ANSISS7_GR317). Default = 30 (Q761-ETSIV2-ISRAEL) (Not supported) Default = 31 (Q761-ARGENTINA) Default = 31 (Q761-ARGENTINA-C2) Default = 31 (Q761-AUSTRALIAN) (Not supported) Default = 31 (Q761-CHILE) (Not supported) Default = 31 (Q761-CHINA) Default = 31 (Q761-ETSIV2) Default = 31 (Q761-ETSIV3) Default = 31 (Q761-ETSIV3-HUNGARY) Default = 31 (Q761-HONGKONG) Default = 31 (Q761-STANDARD) Default = 31 (Q761-STANDARD97) Default = 31 (Q761-THAILAND) Default = 31 (Q767-BRAZIL) Default = 31 (Q767-MEXICO) Default = 31 (Q767-STANDARD)
ORDER	Specifies whether to display data on the screen in a sorted order. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all rows are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
PROTO-FAM (Not provisionable—provisioned in the User Part Variant Base table)	The protocol family. VARCHAR(16): 1–16 ASCII characters. Permitted values are: SS7-ANSI (Default) SS7-Q761 SS7-Q767 (Q7674.1)

RESET-SUPPORTED (Not provisionable—provisioned in the User Part Variant Base table)	Specifies whether the protocol supports sending or receiving reset messages to the line. It determines if a reset event can be signaled to the protocol. CHAR(1): Y/N (Default = Y).
START-ROW	Specifies to begin displaying data on the screen at a specific row. Valid only for the show command. INTEGER: 1–100000000 (Default = 1).

User Part Variant Base

The User Part Variant Base (user-part-variant-base) table contains all the supported ISUP variants and the token values associated with each variant. This table is used by the Element Management System (EMS) to populate the token values in the User Part Variant table. Each ISUP variant defines the protocol and procedures used to set up, manage, and release trunk circuits carrying voice and data calls over a public switched telephone network (PSTN). ISUP is used for both ISDN and non-ISDN calls. Calls that originate and terminate on the same switch do not use ISUP signaling.

Table Name: USER-PART-VARIANT-BASE

Table Containment Area: EMS

Command Types

Show

Examples

```
show user-part-variant-base id=Q761-CHINA
```

Usage Guidelines

Primary Key: id

Syntax Description

* ID	Primary key. The variant id in the format: <protocolfamily>-<variant-name>. MDL uses this id as part of the MDO filename. VARCHAR(32): 1–32 ASCII characters. Permitted values are: ANSISS7-GR317 Q761-BASE Q761-CHINA Q767-BASE—Q7674.1 Q767-MEXICO—Q7674.1 Q761-ETSIV2-ISRAEL (Release 4.4.0) (Not supported) Q761-AUSTRALIAN (Release 4.4.0) (Not supported)

AUTO-REFRESH	Specifies whether to display cached data on the screen. Valid only for the show command. CHAR(1): Y/N (Default = Y). Y—Queries the database for the most current data. N—Queries the database for the most current data only if the cached data is unavailable.
DISPLAY	Specifies what token information to display on the screen. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all tokens are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
LIMIT	Specifies the number of rows to display on the screen. Valid only for the show command. INTEGER: 1–100000000 (Default = 100000000). **Note** The actual maximum number of rows displayed is currently lower than 100000000 due to software limitations.
MAX-BLOCK-MASTER-RANGE	Maximum number of masters (or individuals) calls in a block at one time. INTEGER: 1–32767 (Default = 1).
MAX-BLOCK-SLAVE-RANGE	Maximum number of slave calls in a block at one time. INTEGER: 1–32767 Default = 23 (ANSISS7_GR317). Default = 30 (Q761-ETSIV2-ISRAEL) (Not supported) Default = 31 (Q761-ARGENTINA) Default = 31 (Q761-ARGENTINA-C2) Default = 31 (Q761-AUSTRALIAN) (Not supported) Default = 31 (Q761-CHILE) (Not supported) Default = 31 (Q761-CHINA) Default = 31 (Q761-ETSIV2) Default = 31 (Q761-ETSIV3) Default = 31 (Q761-ETSIV3-HUNGARY) Default = 31 (Q761-HONGKONG) Default = 31 (Q761-STANDARD) Default = 31 (Q761-STANDARD97) Default = 31 (Q761-THAILAND) Default = 31 (Q767-BRAZIL) Default = 31 (Q767-MEXICO) Default = 31 (Q767-STANDARD)
MAX-PARALLEL-JOBS	Number of parallel channel management jobs that can be signaled by subsequent passes through the channel management queue. INTEGER: 1–32767 (Default = 10).

MAX-RESET-MASTER-RANGE	Maximum number of masters (or individuals) calls in reset at one time. INTEGER: 1–32767 (Default = 1).
MAX-RESET-SLAVE-RANGE	Maximum number of slave calls in reset at one time. INTEGER: 1–32767 Default = 23 (ANSISS7_GR317). Default = 30 (Q761-ETSIV2-ISRAEL) (Not supported) Default = 31 (Q761-ARGENTINA) Default = 31 (Q761-ARGENTINA-C2) Default = 31 (Q761-AUSTRALIAN) (Not supported) Default = 31 (Q761-CHILE) (Not supported) Default = 31 (Q761-CHINA) Default = 31 (Q761-ETSIV2) Default = 31 (Q761-ETSIV3) Default = 31 (Q761-ETSIV3-HUNGARY) Default = 31 (Q761-HONGKONG) Default = 31 (Q761-STANDARD) Default = 31 (Q761-STANDARD97) Default = 31 (Q761-THAILAND) Default = 31 (Q767-BRAZIL) Default = 31 (Q767-MEXICO) Default = 31 (Q767-STANDARD)
ORDER	Specifies whether to display data on the screen in a sorted order. Valid only for the show command. VARCHAR(1024): 1–1024 (Default = all rows are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
PROTO-FAM	The protocol family. VARCHAR(16): 1–16 ASCII characters. Permitted values are: SS7-ANSI (Default) SS7-Q761 SS7-Q767 (Q7674.1)
RESET-SUPPORTED	Specifies whether the protocol supports sending or receiving reset messages to the line. It determines if a reset event can be signaled to the protocol. CHAR(1): Y/N (Default = Y).
START-ROW	Specifies to begin displaying data on the screen at a specific row. Valid only for the show command. INTEGER: 1–100000000 (Default = 1).