



CHAPTER 1

Call Agent Provisioning

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This chapter describes the Call Agent 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.



Note

After a new install or an upgrade, all provisioning is disabled unless the DB-LICENSE file is provisioned**. See the Cisco BTS 10200 Softswitch Provisioning Guide for steps.

**As of Release 4.5, DB-LICENSE provisioning is not required.

Activity

The Activity (activity) table schedules periodic or scheduled activities for the Cisco BTS 10200 Softswitch. Some activities can be enabled during switchover or at initialization time. The Activity table is a two-part table. The Activity Base table defines the activities and their properties supported by the Cisco BTS 10200 Softswitch. The Activity table schedules the frequency, and the start and end times for the activities.

Table Name: ACTIVITY

Table Containment Area: CA, FSPTC, and FSAIN

Command Types

Show, add, change and delete

Examples

```
show activity
add activity id=MEDIA-ALIVE-EM; freq=6h; start-time=02:00;
add activity id=SS7-CIC; enabled=n;
add activity id=MGCP-TERM; enabled=y; freq=30m;
change activity id=MEDIA-ALIVE-EM; freq=8h;
delete activity id=MEDIA-ALIVE-EM; (Release 4.5)
```

**Note**

Prior to Release 4.5, this table does not have a delete command. Disable activities by setting the enabled token to N.

Usage Guidelines

Primary Key Token(s): id

Rules:

- freq is required if enabled=y
- day-of-month is required if freq=monthly
- day-of-week is required if freq=monthly and day-of-month = first | second | third | fourth | last
- date-of-month is required if freq=monthly and day-of-month=date
- day-of-week is required if freq=weekly | biweekly
- end-time is required if fixed-time-interval=y

Syntax Description

* ID	Primary key. Foreign key: Activity Base table. Resource type for the specified module. VARCHAR(16): 1–16 ASCII characters. VARCHAR(32): 1–32 ASCII characters. (Release 4.5) Permitted values are: MEDIA-ALIVE-EM—Controls event message (EM) generation for long duration calls. MGCP-TERM—Controls the trunking gateway MGCP-side CIC audit. SS7-CIC—Controls the SS7-side CIC audit. Note Enter these values in upper case. These values are case-sensitive.
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* FREQ	Specifies the frequency (number of times) to schedule the specified activity. VARCHAR(16): 1–16 ASCII characters. Permitted values are: 5M—Run periodic task every 5 minutes. 10M—Run periodic task every 10 minutes. 15M—Run periodic task every 15 minutes. 30M—Run periodic task every 30 minutes. 1H—Run periodic task every 1 hour. 2H—Run periodic task every 2 hours. 3H—Run periodic task every 3 hours. 4H—Run periodic task every 4 hours. 6H—Run periodic task every 6 hours. 8H—Run periodic task every 8 hours. 12H—Run periodic task every 12 hours. DAILY—Run periodic task every 24 hours. WEEKLY—Run periodic task once every week on the specified day-of-week. BIWEEKLY—Run periodic task once every two weeks on the specified day-of-week. MONTHLY—Run periodic task once every month on the specified day or date.
AUDIT-COUNT (Not supported) (Release 4.5)	Specifies the number of records to be audited per interval. INTEGER. Range is defined in the Activity Base table.
AUDIT-INTERVAL (Not supported) (Release 4.5)	Specifies the interval between group of auditing triggers. INTEGER. Range is defined in the Activity Base table.
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.
DATE-OF-MONTH	Mandatory if day-of-month=date. Specifies the day of the month to run the activity. SMALLINT: 1–28. Note Because the dates 29, 30, and 31 do not occur every month, they are not specified.

DAY-OF-MONTH	Mandatory if freq=monthly. Use to schedule activities on a monthly basis. VARCHAR(16): 1–16 ASCII characters. Permitted values are: FIRST—Run periodic task once every month on the specified day-of-week. SECOND—Run periodic task once every month on the specified day-of-week. THIRD—Run periodic task once every month on the specified day-of-week. FOURTH—Run periodic task once every month on the specified day-of-week. LAST—Run periodic task once every month on the specified day-of-week. FIRSTDAY—Run periodic task once every month on the first day of the month. LASTDAY—Run periodic task once every month on the last day of the month. DATE—Run periodic task once every month on the specified date.
DAY-OF-WEEK	Mandatory if freq = weekly biweekly or freq = monthly and day-of-month = first second third fourth last. Use to schedule activities on a weekly basis. CHAR(3). Permitted values are: MON—Monday TUE—Tuesday WED—Wednesday THU—Thursday FRI—Friday SAT—Saturday SUN—Sunday
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.
ENABLED	Specifies if the activity is enabled or disabled. CHAR(1): Y/N (Default = N). CHAR(1): Y/N (Default = Y). (Release 4.5) Y—The activity is performed at a specified frequency. N—The activity is not a periodic activity.
END-TIME	Specifies a specific time to suspend a scheduled activity. At the next scheduled time, the suspended activity picks up from where it left off. CHAR(5): HH:MM (Default = 00:00). Note There is no default as of Release 4.5.
FIXED-TIME-INTERVAL (Not provisionable)	Provisioned from the Activity Base table. Allows scheduling an activity to run only during fixed time interval. For the change command, the end-time token is required when using the fixed-time-interval token. CHAR(1): Y/N.

LAST-CHANGED (Not provisionable)	Specifies when the activity record was modified. DATE: YYYY-MM-DD. Note Uses the system time when a record is provisioned or changed.
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.
RESTART-ENABLED	Provisioned from the Activity Base table if not entered. Specifies if the activity must be run after initialization if a process was restarted. CHAR(1): Y/N (Default = Y).
SO-ENABLED	Provisioned from the Activity Base table if not entered. Specifies if the activity must be run after a switchover on the newly active side. 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).
START-TIME	Specifies a start time for a scheduled or a periodic activity. For a periodic activity, only the start time is used. Start-time must occur before end-time. CHAR(5): HH:MM—ranging from 00:00 to 23:59 (Default = 00:00).

Activity Base

The Activity Base (activity-base) table defines valid activity IDs and the number of times they are to run. This table is populated during installation.

Table Name: ACTIVITY-BASE

Table Containment Area: EMS

Command Types

Show

Examples

```
show activity-base id=MEDIA-ALIVE-EM;
```

Usage Guidelines

Primary Key Token(s): id

Syntax Description

* ID	Primary key. Resource Type for the specified module. VARCHAR(16): 1–16 ASCII characters. VARCHAR(32): 1–32 ASCII characters. (Release 4.5) Permitted values are listed in Table 1-1. Note Enter values in upper case. The values are case-sensitive.
AUDIT-COUNT-RANGE-FROM (Not supported)	Specifies the lower limit of the audit-count range. INTEGER: Default = 0.
AUDIT-COUNT-RANGE-TO (Not supported)	Specifies the upper limit of the audit-count range. INTEGER: Default = 0.
AUDIT-INTERVAL-RANGE-FROM (Not supported)	Specifies the lower limit of the audit-interval range. INTEGER: Default = 0.
AUDIT-INTERVAL-RANGE-TO (Not supported)	Specifies the upper limit of the audit-interval range. INTEGER: Default = 0.
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.
FIXED-TIME-INTERVAL	Specifies if the activity must be run during a fixed time interval. 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.

RESTART-ENABLED	Specifies if the activity must be run after initialization if a process was restarted. CHAR(1): Y/N (Default = Y).
SO-ENABLED	Specifies if the activity must be run after a switchover on the newly active side. 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).
VALID-FREQ	Defines a list of intervals that are allowable for the defined activity. If null, any valid frequency can be provisioned. VARCHAR(32): 1–32 ASCII characters. VARCHAR(64): 1–64 ASCII characters. (Release 4.5) Permitted values are: 5M—Run periodic task every 5 minutes. 10M—Run periodic task every 10 minutes. 15M—Run periodic task every 15 minutes. 30M—Run periodic task every 30 minutes. 1H—Run periodic task every 1 hour. 2H—Run periodic task every 2 hours. 3H—Run periodic task every 3 hours. 4H—Run periodic task every 4 hours. 6H—Run periodic task every 6 hours. 8H—Run periodic task every 8 hours. 12H—Run periodic task every 12 hours. DAILY—Run periodic task every 24 hours. WEEKLY—Run periodic task once every week on the specified day of week. BIWEEKLY—Run periodic task once every two weeks on the specified day of week. MONTHLY—Run periodic task once every month on the specified day or date.

Table 1-1 describes the provisioning characteristics for the values of the Activity Base ID token values.

Table 1-1 Activity Base ID Token Values Characteristics

ID	Valid-Freq	Fixed-Time Interval	So-Enabled	Restart-Enabled	Description
MEDIA-ALIVE-EM	6H, 8H, 12H, DAILY	N	N	N	Controls EM generation for long duration calls.
MGCP-TERM	30M, DAILY	N	Y	Y	Controls the trunking gateway MGCP-side CIC audit.

Table 1-1 Activity Base ID Token Values Characteristics (continued)

ID	Valid-Freq	Fixed-Time Interval	So-Enabled	Restart-Enabled	Description
SIA-MEMORY-PERIODIC-AUDIT (Release 4.5)	15M, 30M, 1H, 2H, 3H, 4H, 6H, 8H, 12H	N	Y	Y	SIA memory audit.
SIA-MEMORY-SCHEDULED-AUDIT (Release 4.5)	DAILY	N	N	N	Schedules an SIA memory audit daily at a fixed time.
SIM-MEMORY-PERIODIC-AUDIT (Release 4.5)	15M, 30M, 1H, 2H, 3H, 4H, 6H, 8H, 12H	N	Y	Y	SIM memory audit.
SIM-MEMORY-SCHEDULED-AUDIT (Release 4.5)	DAILY	N	N	N	Schedules an SIM memory audit daily at a fixed time.
SS7-CIC		N	Y	Y	Controls the SS7-side CIC audit. Can be scheduled at any time.

Call Agent

The Call Agent (call-agent) table contains the domain name of the Call Agent switch. It is also provisioned in the Feature Server.

Table Name: CALL-AGENT

Table Containment Area: Call Agent, FSPTC, and FSAIN

Command Types

Show, add, change, and delete

Examples

```
show call-agent id=CA146;
add call-agent id=CA146; tsap-addr-sideA=190.10.100.200; clli=DALLTXRCDN5;
change call-agent id=ca146; tsap-addr-sideA=190.10.100.200; clli=DALLTXRCDN6;
delete call-agent id=CA146; tsap-addr-sideA=190.10.100.200; clli=DALLTXRCDN6;
```

Examples

```
show call-agent id=CA146;
add call-agent id=CA146; tsap-addr=190.10.100.200; clli=DALLTXRCDN5;
add call-agent id=CA146; tsap-addr=190.10.100.200; clli=DALLTXRCDN5;
change call-agent id=ca146; tsap-addr=190.10.100.200; clli=DALLTXRCDN6;
delete call-agent id=CA146; tsap-addr=190.10.100.200; clli=DALLTXRCDN6;
```

Usage Guidelines

Primary Key Token(s): id

Add Rules: None.

Change Rules: None.

Delete Rules:

- ID does not exist in any centrex-grp::call-agent-id.
- ID does not exist in any mlhg::call-agent-id.
- ID does not exist in any mgw::call-agent-id.
- ID does not exist in any trunk-grp::call-agent-id.

Syntax Description

* ID	Primary key. Call Agent ID (domain name). Service provider assigns, based on network configuration. VARCHAR(8): 1–8 ASCII characters. The form of the id is CAnnn or cannn where nnn = 000 to 999.
* TSAP-ADDR-SIDEA	Transport service access point (TSAP) address for the domain name system (DNS) name of the Feature Control Protocol (FCP) link of the Call Agent. The DNS name then resolves to four IP addresses—two on the active side and two on the standby side. This DNS name must match the DNS name configured in the optcall.cfg file for the service interaction module (SIM) communication.
* TSAP-ADDR (Release 4.4.0)	VARCHAR(64): 7–64 ASCII characters in formats ranging from n.n.n.n to nnn.nnn.nnn.nnn. Domain names cannot begin with a number. Note SIM is responsible for selecting a service when two or more services are defined for the same Trigger ID (TID) / Trigger Detection Point (TDP). Service selection is based on the service priority.
CLLI	The Common Language Location Identifier (CLLI) for the Call Agent. CHAR(11): 11 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.
MGW-MONITORING-ENABLED	Media Gateway monitoring enabled/disabled indicator. CHAR(1): Y/N (Default = Y).
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).

Call Agent Configuration

The Call Agent Configuration (ca-config) table defines the values a service provider is allowed to change. The Call Agent Configuration Base defines the defaults for each Call Agent and is used unless the Call Agent Configuration table is added with a different value. See [Appendix A, “Configurable Parameters and Values”](#) for the values that can be changed.



Note

When the Cisco BTS 10200 Softswitch looks for provisioned values, Call Agent Configuration table is read first to provide a value. If the Call Agent Configuration table is not provisioned, the system then reads the Call Agent Configuration Base table and returns that default value. (Release 4.5)

Table Name: CA-CONFIG

Table Containment Area: Call Agent, FSPTC, and FSAIN

Command Types

Show, add, change and delete (delete is supported as of Release 4.4.1)

Examples

```
show ca-config type=susp-tmr;
add ca-config type=susp-tmr; datatype=integer; value=250;
change ca-config type=susp-tmr; datatype=integer; value=200
change ca-config type=batch-mode-supp; value=Y;
change ca-config type=batch-latency; value=240;
delete ca-config type=susp-tmr; (Release 4.4.1)
```

Usage Guidelines

Primary Key Token(s): type

Change Rules: None.

Syntax Description

* TYPE	Primary key. Type of configuration. VARCHAR(50): 1–50 ASCII characters. See Appendix A, “Configurable Parameters and Values” for values.
* DATATYPE	Type of data for the configuration type. VARCHAR(8): 1–8 ASCII characters. Permitted values are: BOOLEAN—The data entered for the value token is a BOOLEAN (Y, N, Yes, No) string. INTEGER—The data entered for the value token is an integer. STRING—The data entered for the value token is a character (ASCII) string. DIGITS—The data entered for the value token are 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.
BATCH-LATENCY	When batch-mode-supp=Y, batch-latency defines the maximum time (in seconds) to hold any EM before sending the batched RADIUS message. Obsolete as of Release 4.4.1. INTEGER: 1–999 (Default = 60).
BATCH-MODE-SUPP	Indicates whether batch mode is supported. CHAR(1): Y/N (Default = N). Obsolete as of Release 4.4.1. N—Batch mode is not supported. Y—Batch mode is supported.
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).
VALUE	The value associated with the datatype. VARCHAR(32): 1–32 ASCII characters.

Call Agent Configuration Base

The Call Agent Configuration Base (ca-config-base) table is a static table provisioned in the Element Management System (EMS) to perform constraint checks. This table is not provisionable. Only the show command is allowed. Use the show command in this table to change information in the Call Agent Configuration table. Information in the Call Agent Configuration Base table must match the information in the Call Agent Configuration table.

Table Name: CA-CONFIG-BASE

Table Containment Area: EMS

Command Types

Show

Examples

```
show ca-config-base type=susp-tmr;
```

Usage Guidelines

Primary Key Token(s): type

Syntax Description

* TYPE (Not provisionable)	Primary key. Defines the type of data and the value column defines the data for the defined type. VARCHAR(50): 1–50 ASCII characters.
* DATATYPE (Not provisionable)	Specifies what kind of parameter is available for this type. VARCHAR(8): 1–8 ASCII characters. Permitted values are: BOOLEAN—The data entered for value token is a BOOLEAN (Y, N, Yes, No) string. INTEGER—The string entered for the value token is an integer. STRING—The string entered for the value token is a character string. DIGITS—The string entered for the value token is a digit string.
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.

CHK-POS-VAL	If set, the EMS validates the VALUE field against one of the values provisioned in the Call Agent Configuration Base Possible Values table. CHAR(1): Permitted values are: Y—Validate the input string against value the Call Agent Configuration Base Possible Values table. N—No check. U—Convert the input string to upper case. L—Convert the input string to lower case.
DEFAULT-VALUE (Not provisionable)	Defines the value associated with data type defined by the type token. VARCHAR(32): 1–32 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.
FROM-VALUE (Not provisionable)	First value of an integer range for this type. INTEGER.
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).
TO-VALUE (Not provisionable)	Last value of an integer range for this type. INTEGER.

Call Agent Profile

The Call Agent Profile (call-agent-profile) table is used to define the properties (functionality) of the Call Agent. This table is also used to specify a billing method: either EM or CDB.



Note

A Call Agent must be provisioned before provisioning in the Call Agent Profile table.

Table Name: CALL-AGENT-PROFILE

Table Containment Area: Call Agent

Command Types

Show, add, change, and delete

Examples

```
show call-agent-profile id=ca146;
add call-agent-profile id=ca146; cms-id=12345; mgc-supp=y; mgc-id=12345;
feid=financial-entity-id1; cdb-billing-supp=n; em-billing-supp=y; pri-rks-profile-id=rks1;
sec-rks-profile-id=rks2;
change call-agent-profile id=ca146; cdb-billing-supp=n;
delete call-agent-profile id=ca146;
```

Usage Guidelines

Primary Key Token(s): id

Foreign Key Token(s): id

Add Rules: None.

Change Rules: None.

Delete Rules: None.

Syntax Description

* ID	Primary key. Foreign key: Call Agent table. Domain name of the specific Call Agent (CA), in the format CAnnn, where nnn = 3-digit number previously assigned to the CA. This value is case-sensitive (CA146 and ca146 are not the same). This is the unique identifier for this Call Agent (CMS) node, which was permanently assigned at the time of software installation on the Cisco BTS 10200 Softswitch. VARCHAR(8): 1–8 ASCII characters.
* CMS-ID (This token is optional as of Release 4.4.1)	Specifies the 5-digit element ID of the CMS. INTEGER: 00000–99999 (Default = 99999 in Release 4.4.1). Note This token must be provisioned to support the Communications Assistance for Law Enforcement Act (CALEA).
* MGC-ID (Optional as of Release 4.4.1)	Specifies the 5-digit element ID of the MGC. INTEGER: 00000–99999 (Default = 99999 in Release 4.4.1). Note This token must be provisioned to support the Communications Assistance for Law Enforcement Act (CALEA).
* FEID	Financial entity ID (FEID) of the Cisco BTS 10200 Softswitch (CMS/MGC) that is included in event messages sent to the RKS for billing purposes. PacketCable zones can be divided into one or more logical financial entity IDs. A single CMS/MGC is assigned at most one FEID; however, more than one CMS can be assigned the same FEID. VARCHAR(255): 1–255 ASCII characters (Default = 33333 in Release 4.4.1). Note This optional token becomes mandatory if the CMS-SUPP token, the MGC-SUPP token, or both are set to Y (yes) in Releases 4.1, 4.2 and 4.4.0. This token is optional in Release 4.4.1 regardless of whether the MGC-SUPP token is set to Y (yes). The CMS-SUPP token is obsolete in Release 4.4.1.

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.
CDB-BILLING-SUPP	Specifies whether to generate call detail blocks (CDBs) for billing. If changed, change takes effect only on a failover. CHAR(1): Y/N (Default = Y). Y—Provide CDB billing. N—Do not provide CDB billing
 Caution Cisco strongly recommends that you do not set both cdb-billing-supp and em-billing-supp to Y. Attempting to generate both types of records simultaneously can significantly degrade system performance.	
Note To set both the cdb-billing-supp and em-billing-supp tokens to Y, include FORCED=Y in the command line (Release 4.4.1).	
CMS-SUPP (Obsolete in Release 4.4.1)	Specifies whether CMS functionality is supported by the element. CHAR(1): Y/N (Default = N).
DESCRIPTION	Service provider-defined description. 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.
DQOS-SUPP	Determines whether DQoS is supported by this Call Agent. CHAR(1): Y/N (Default = N). N—DQoS is not supported by this Call Agent. Y—Support for DQoS is supported by this Call Agent.

EM-BILLING-SUPP	Specifies whether to generate PacketCable event messages for billing. If changed, change takes effect only on a failover. CHAR(1): Y/N (Default = N). N—Do not provide event message generation. Y—Provide event message generation.  Caution Cisco strongly recommends that you do not set both CDB-BILLING-SUPP and EM-BILLING-SUPP to Y. Attempting to generate both types of records simultaneously can significantly degrade system performance.
	Note To set both the cdb-billing-supp and em-billing-supp tokens to Y, include FORCED=Y in the command line (Release 4.4.1).
FORCED (Release 4.4.1)	Allows a user to set both EM and CDB billing. CHAR(1): Y/N (Default = N).
GTD-SUPP	Specifies if generic transport descriptor (GTD) functionality is supported by the element. GTD is an ASCII-based encoding scheme used to pass signaling information end-to-end. 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.
MGC-ID	The 5 digit element id for the MGC type (used for EM billing) INTEGER: 00000–99999 (Default = 99999).
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.
PCMM-SUPP (Release 4.5)	Specifies whether PacketCable Multimedia Specification (PCMM) is supported. CHAR(1): Y/N (Default = N).
PRI-RKS-PROFILE-ID	Foreign key: Radius Profile table. Primary RKS Profile ID. Must be the same as the radius-profile id for the primary RKS. VARCHAR(16): 1–16 ASCII characters.
SEC-RKS-PROFILE-ID	Foreign key: Radius Profile table. Secondary RKS Profile ID. Must be the same as the radius-profile id for the secondary RKS. 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).

Call Agent Configuration Base Possible Values (Release 4.4.1)

The Call Agent Configuration Base Possible Values (ca-config-base-pos-val) table is a static table provisioned in the Element Management System (EMS) to perform constraint checks on possible values for any particular ca-config token. This table is not provisionable. Only the show command is allowed.

Table Name: CA-CONFIG-BASE-POS-VAL

Table Containment Area: EMS

Command Types

Show

Examples

```
show ca-config-base-pos-val type=protocol-version;value=I01;
```

Usage Guidelines

Primary Key Token(s): type, value

Add Rules: None.

Change Rules: None.

Delete Rules: None.

Syntax Description

* TYPE	Primary key. Foreign key: Call Agent Configuration Base table. Defines the type of data. VARCHAR(50): 1–50 ASCII characters. See Table 1-2 for permitted values.
* VALUE	Primary key. Defines the value associated with the data type defined by the type token. VARCHAR(32): 1–32 ASCII characters. See Table 1-2 for permitted values.
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).

Table 1-2 lists the valid types and values for the Call Agent Configuration Base Possible Values table.

Table 1-2 Call Agent Configuration Base Possible Values Types and Values

Type	Value	Description
AC-ACTIVATION-LEVEL	ONE	
AC-ACTIVATION-LEVEL	TWO	
ACCT-CODE-PROMPT-TONE	CF	Confirm tone
ACCT-CODE-PROMPT-TONE	DL	Dial tone
ACCT-CODE-PROMPT-TONE	MWI	Message waiting indicator
ACCT-CODE-PROMPT-TONE	P	Prompt tone
ACCT-CODE-PROMPT-TONE	SDL	Stutter dial tone
ACCT-CODE-PROMPT-TONE	SL	Stutter dial tone
AR-ACTIVATION-LEVEL	ONE	
AR-ACTIVATION-LEVEL	TWO	
COT-ACTIVATION-LEVEL	ONE	
COT-ACTIVATION-LEVEL	TWO	
DEFAULT-CODEC-TYPE	PCMU	
DEFAULT-CODEC-TYPE	PCMA	
DEFAULT-CODEC-TYPE	G.722	
DEFAULT-CODEC-TYPE	G.723.1-H	
DEFAULT-CODEC-TYPE	G.723.1A-H	
DEFAULT-CODEC-TYPE	G.723.1-L	
DEFAULT-CODEC-TYPE	G.723.1A-L	
DEFAULT-CODEC-TYPE	G.729	
DEFAULT-CODEC-TYPE	G.729A	
DEFAULT-CODEC-TYPE	G.729AB	
DEFAULT-CODEC-TYPE	G.729B	
DEFAULT-CODEC-TYPE	G.729E	
DEFAULT-CODEC-TYPE (Not Used)	G.CLEAR	
DEFAULT-CODEC-TYPE	G.726-40K	

Table 1-2 *Call Agent Configuration Base Possible Values Types and Values (continued)*

Type	Value	Description
DEFAULT-CODEC-TYPE	G.726-32K	
DEFAULT-CODEC-TYPE	G.726-24K	
DEFAULT-CODEC-TYPE	G.726-16K	
DEFAULT-CODEC-TYPE	G.728	
DEFAULT-IVR-SCRIPT-PKG-TYPE	BAU	Basic audio package.
DEFAULT-IVR-SCRIPT-PKG-TYPE	AAU	Advanced audio package.
DEFAULT-IVR-SCRIPT-PKG-TYPE	A	Announcement package.
DEFAULT-IVR-SCRIPT-PKG-TYPE	TCL	Tool command language.
EXCHANGE-TYPE	A	
EXCHANGE-TYPE	B	
PROTOCOL-VERSION	I01	PacketCable EM specification version.
MGCP-T38-FAX-MODE-PREF1 (Release 4.5)	T38_FXR _ LOOSE	Not provisionable.
MGCP-T38-FAX-MODE-PREF1 (Not used) (Release 4.5)	T38_FXR _ STRICT	Not provisionable.
MGCP-T38-FAX-MODE-PREF1 (Not used) (Release 4.5)	T38_FXR _ GW	Not provisionable.
MGCP-T38-FAX-MODE-PREF2 (Not used) (Release 4.5)	T38_FXR _ LOOSE	Not provisionable.
MGCP-T38-FAX-MODE-PREF2 (Not used) (Release 4.5)	T38_FXR _ STRICT	Not provisionable.
MGCP-T38-FAX-MODE-PREF2 (Not used) (Release 4.5)	T38_FXR _ GW	Not provisionable.
MGCP-T38-FAX-MODE-PREF3 (Not used) (Release 4.5)	T38_FXR _ LOOSE	Not provisionable.
MGCP-T38-FAX-MODE-PREF3 (Not used) (Release 4.5)	T38_FXR _ STRICT	Not provisionable.
MGCP-T38-FAX-MODE-PREF3 (Release 4.5)	T38_FXR _ GW	Not provisionable.
PROTOCOL-VERSION	I02	PacketCable EM specification version
PROTOCOL-VERSION	I03	PacketCable EM specification version
SCTP-DSCP	EF	
SCTP-DSCP	AF11	
SCTP-DSCP	AF12	
SCTP-DSCP	AF13	
SCTP-DSCP	AF21	

Table 1-2 *Call Agent Configuration Base Possible Values Types and Values (continued)*

Type	Value	Description
SCTP-DSCP	AF22	
SCTP-DSCP	AF23	
SCTP-DSCP	AF31	
SCTP-DSCP	AF32	
SCTP-DSCP	AF33	
SCTP-DSCP	AF41	
SCTP-DSCP	AF42	
SCTP-DSCP	AF43	
SCTP-DSCP	CS1	
SCTP-DSCP	CS2	
SCTP-DSCP	CS3	
SCTP-DSCP	CS4	
SCTP-DSCP	CS5	
SCTP-DSCP	CS6	
SCTP-DSCP	CS7	
SCTP-DSCP	DEFAULT	
TIME-RELEASE-TONE	NOTONE	If a time release procedure is applied, the Cisco BTS 10200 Softswitch checks the time release tone values to determine the tone to play. Permitted values for the tone are: NOTONE—no-tone (silence) BT—busy tone ROT—reorder tone ROH—receiver off hook warning tone
TIME-RELEASE-TONE	BT	
TIME-RELEASE-TONE	ROT	
TIME-RELEASE-TONE	ROH	

Common Language Location Identifier Code (Release 4.5)

The Common Language Location Identifier (CLLI) Code (clli-code) table is used when multiple CLLI codes must be supported. One CLLI code can be defined per point of presence (POP). Since the Cisco BTS 10200 Softswitch supports multiple POPs, the Cisco BTS 10200 Softswitch supports multiple CLLI codes.

Table Name: CLLI-CODE

Table Containment Area: EMS ONLY

Command Types

Show, add, change, and delete

Examples

```
show clli-code;
add clli-code id=NBWKNJ17DS1;
change clli-code id=NBWKNJ17DS1; description=CLLI Code for NEW Brunswick POP.
delete clli-code id=NBWKNJ17DS1;
```

Usage Guidelines

Primary Key Token(s): id

Add Rules: None.

Change Rules: None.

Delete Rules: None.

Syntax Description

* ID	Primary key. The CLI code. VARCHAR(11): 1–11 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	Service provider-defined description. 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).

Emergency Number List

The Emergency Number List (emergency-number-list) table defines emergency numbers. During overload, the call is allowed if a dialed number matches a number in this table. The call is dropped if a dialed number does not match a number in this table.

Table Name: EMERGENCY-NUMBER-LIST

Table Containment Area: Call Agent, EMS

Command Types

Show, add, change and delete

Examples

```
show emergency-number-list;  
add emergency-number-list digit-string=911;  
change emergency-number-list digit-string=911; description=E911 number;  
delete emergency-number-list digit-string=911;
```

Usage Guidelines

Primary Key Token(s): digit-string

Add Rules: None.

Change Rules: None.

Delete Rules: None.

Syntax Description

* DIGIT-STRING	Primary key. Specifies the digit string to be considered as an emergency number. VARCHAR(14): 1–14 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 (EMS only)	Service provider-defined description. 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).

Feature Server

The Feature Server (feature-server) table identifies the location and type of a Feature Server (POTS or AIN). This table also identifies the media gateways (MGWs) used by the Feature Server. It is updated at both the Call Agent and the applicable Feature Server. The Feature Server can be prepopulated during installation using a script, and it is used to automatically provision the Service Trigger table.

Table Name: FEATURE-SERVER

Table Containment Area: Call Agent / FSPTC / FSAIN (Release 4.5)

Command Types

Show, add, change, and delete

Examples

```
show feature-server id=FSPTC002;
add feature-server id=FSPTC002;tsap-addr-sidea=190.101.100.103:11025;type=pots;
change feature-server id=FSPTC002;type=pots;tsap-addr-sidea=test.cisco.com;
delete feature-server id=FSPTC002;
```

Examples

```
add feature-server id=FSPTC002;tsap-addr=190.101.100.103:11025;type=pots;
change feature-server id=FSPTC002;type=pots;tsap-addr=test.cisco.com;
```

Usage Guidelines

Primary Key Token(s): id

Add Rules: None.

Change Rules: None.

Delete Rules:

- ID does not exist in any feature::feature-server-id.
- ID does not exist in any service-trigger::feature-server-id.

**Note**

When adding a Feature Server, add the entries to the Call Agent as well as the Feature Server tables in the respective Feature Servers. The POTS Feature Server has the Feature Server table, but the AIN Feature Server does not.

Syntax Description

* ID	Primary key. The format of id is FSPTCnnn or (fsptc nnn if POTS Feature Server) and FSAINnnn (or fsainnnn if AIN Feature Server). VARCHAR(8): 1–8 ASCII characters in the format FSPTCnnn or fsptcnnn; FSAINnnn or fsainnnn, where nnn = 000–999. Note There are no naming restrictions if the Feature Server TYPE=3PTY.
* TSAP-ADDR-SIDEA	TSAP address of Side A of the Feature Server.
TSAP-ADDR (Release 4.4.1)	VARCHAR(64): 7–64 ASCII characters in formats ranging from n.n.n.n to nnn.nnn.nnn.nnn. DNS or IP address. Domain names cannot begin with a number.
* TYPE	Type of Feature Server. VARCHAR(4): 1–4 ASCII characters. Permitted values are: AIN—Advanced Intelligent Network POTS—Plain old telephone service (includes Tandem and Centrex) 3PTY—Third Party Feature Server (Release 4.5)
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 (EMS-only field)	Service provider-defined description. 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.
EXTERNAL-FEATURE-SERVER (Release 4.5)	Specifies to the Call Agent whether a feature server is an external feature server. If the feature server is external, an external FQDN must be sent to the Feature Server. Can be set to Y only if type = 3pty. 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.
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).

Nature of Dial

The Nature of Dial (nod) table describes the type of digits that a subscriber can dial. One or more NOD values can apply for a call. The NOD table is used in conjunction with the Nature of Dial White Black List table (NOD-WB-LIST) to allow or restrict types of subscriber calls.

Table Name: NOD

Table Containment Area: EMS only

Command Types

Show

Examples

```
show nod;
```

Usage Guidelines

Primary Key Token(s): nod

Syntax Description

* NOD	Primary key. Nature of dial. VARCHAR(16): 1–16 ASCII characters.
DESCRIPTION	Service provider-defined description. VARCHAR(128): 1–128 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).

Table 1-3 lists the valid NOD values.

Table 1-3 Valid NOD Values

Nature of Dial	Description
AIRLINES	Airlines (Release 4.5)
AMBULANCE	Ambulance
ANA	Automatic Number Announcement (Release 4.5)
ATTENDANT	Attendant Access (Centrex)
BLV	Busy Line Verification (Release 4.5)
BUSINESS	Business Office
CASUAL	Casual Call
CUT-THRU	Cut-thru Call
DA	Directory Assistance Call
DA-TOLL	Directory Assistance Toll Call
EMG	Emergency Call
EXTENSION	Telephone Extension Dialing
FIRE	Fire
INFO	Information Call (976)
INTERLATA	InterLATA Toll Call
INTL	International Call
INTL-OPR	International Operator Assisted
INTL-WZ1	International call within World Zone 1 (outside of contiguous 48 states) (Release 4.5)
LB-TEST	Loopback Test Call (108 Test Line) (Release 4.5)
LNP	Local Number Portability Call (Release 4.5)
LOCAL	Local Call
LRN	Location Routing Number (Release 4.5)

Table 1-3 **Valid NOD Values (continued)**

Nature of Dial	Description
MOBILE	Calls to Mobile Network (Release 4.5)
NAS	Network Access Server (Release 4.5)
NATIONAL	National Call
NAT-OPR	National Operator Assisted Call
NON-EMG	Non Emergency Number (311)
OPERATOR	Operator Call
PCS	PCS (500) Call
POLICE	Police
PREMIUM	Premium Rate Call (900)
RAILWAYS	Railways Information and Reservation (Release 4.5)
RELAY	Relay
REPAIR	Repair Bureau
SPEED-CALL	Speed dialing (Release 4.5)
SUBSCRIBER	Subscriber Call
SVC-CODE	Generic Service Code Call Type (Release 4.5)
TANDEM	Tandem Call
TEST-CALL	Test Call (Release 4.5)
TIME	Time
TOLL	IntraLATA Toll Call
TOLL-FREE	Toll Free Call
TRAFFIC	Traffic Accident Report
TW	Time and Weather
WEATHER	Weather Report
500	500 (PCS) Call
700	700 Call
900	900 (Premium Rate) Call
976	976 (Information) Call

Network Element (Release 4.4.1)

The Network Element (network-element) table defines specific target elements (Call Agent and Feature Servers). This table is used by the Queuing and Audit Manager (QAM) process during provisioning.

Table Name: NETWORK-ELEMENT

Table Containment Area: EMS Only

Command Types

Show

Examples

```
show network-element id=CA146;
```

Usage Guidelines

Primary Key Token(s): id

Add Rules: None

Change Rules: None

Delete Rules: None.

Syntax Description

* ID	Primary key. The Network Element ID (domain name). The format of the ID is CAnnn, FSPTCnnn, or FSAINnnn, where nnn = 000 to 999. The service provider assigns this ID based on the network configuration. VARCHAR(8): 1–8 ASCII characters.
* TYPE	Type of Network Element. VARCHAR(16): 1–16 ASCII characters. Permitted values are: CA POTS AIN
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	Service provider-defined description. 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).

Variable Default

The Variable Default (var-default) table is used to modify the factory default values assigned to database tables. The table-name is referred as *noun* while the token name is referred as *var-name*. A service provider can modify the default values for some tokens to meet specific business needs. This table does not perform any constraint checks.

Table Name: VAR-DEFAULT

Table Containment Area: EMS

Command Types

Show, add, change, and delete

Examples

```
show var-default noun=dial-plan; var-name=min-digits;
add var-default noun=dial-plan; var-name=min-digits; DEF-VALS=9;
change var-default noun=dial-plan; var-name=min-digits; DEF-VALS=10;
delete var-default noun=dial-plan; var-name=min-digits;
```

Usage Guidelines

Primary Key Token(s): noun, var-name

Add Rules: Foreign key constraints

Change Rules: Foreign key constraints

Delete Rules: None.

Syntax Description

* NOUN	Primary key. Foreign key: Commandparameter table. Table name. VARCHAR(50): 1–50 ASCII characters.
* VAR-NAME	Primary key. Token name. VARCHAR(50): 1–50 ASCII characters.
* DEF-VALS	Specifies the default value to use. The default value overrides the factory default value. VARCHAR(100): 1–100 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).