



## Components and Properties

The names and values associated with media gateway controller (MGC) components, processes, and properties are used throughout the MGC system. Frequently, they are parameters used in MML commands. This chapter describes these names and their associated values, in the following sections:

- [Components, page A-1](#)
- [Processes, page A-32](#)
- [Properties, page A-34](#)

## Components

This section describes network element (NE) components and dial plan provisioning components. The NE components are used with the **PROV** commands, and the dial plan provisioning components are used with the **NUMAN** commands.

## Network Element Components

All Components have a name parameter, which is the MML name, and a description, which is a text description. They also must have a parent. If the parent is not specified then it is the root MGC NE component. The structure of Network Element components is shown in [Table A-1](#).

**Table A-1** Network Element Component Structure

Parameter MML Name	Parameter Description	Parameter Values (Default)
NAME	Unique id of this component and component name used in MML commands	The name can be up to any twenty alphanumeric characters. No special characters other than “-” are allowed. The name should begin with an alphabetic character.
DESC	Component description	The description can be as many as 128 characters.

## Adapter Card

The Adapter Card component type represents a card used on the MGC. Its MML name is as follows:

- MML Name—CARD

The Adaptor Card component structure is shown in [Table A-2](#).

**Table A-2 Adaptor Card Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
TYPE	Card type	ITK, V35, EN, ATM, PTI
SLOT	Card Slot	Integer starts at 0, max depends on machine; (0)

## Adjacent Point Code

The adjacent point code (APC) component type represents an SS7 point code assigned to an STP with which the MGC NE needs to communicate. Its MML name is as follows:

- MML Name—APC

The adjacent point code component structure is shown in [Table A-3](#).

**Table A-3 Adjacent Point Code Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
NETADDR	Network address	String in dotted notation, for example, 1.1.1;
NETIND	Network indicator	; (0)

## ATM Interface

The ATM interface component type is a network interface card (NIC) that represents an ATM interface on the MGC. Its MML name is as follows:

- MML Name—ATMIF

The ATM interface component structure is shown in [Table A-4](#).

**Table A-4 ATM Interface Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
CARD	Card which supports this ATM interface	MML name of previously defined card or index of the card for SNMP

## ATM Link

The ATM link component type represents an ATM link used on the MGC. Its MML name is as follows:

- MML Name—ATMLNK

The ATM interface component structure is shown in [Table A-5](#).

**Table A-5 ATM Link Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
SLC	Signaling Link Code	0 or 1; (1)
PRI	Priority	Integer greater than 0; (1)
SVC	Signaling service this link supports	MML name of previously defined signal service or index of the signal service for SNMP
IF	ATM interface this link in on	MML name of previously defined ATMIF or index of the ATMIF for SNMP
TIMESLOT	Timeslot this link uses	Not used, reserved for future use; (0)

## C7 IP Link

The C7 IP Link component type represents a C7 IP link used on the MGC. These links are used to communicate with the signal termination point (2600). Its MML name is as follows:

- MML Name—C7IPLNK

The C7 IP link component structure is shown in [Table A-6](#).

**Table A-6 C7 IP Link Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
IF	Ethernet interface MML name	MML name of a previously defined ENET interface or index of the ENET interface for SNMP
PORT	Local port number	Any valid IP port number greater than 1024
PRI	Priority	Integer greater than 0; (1)
PEERADDR	Remote IP address	IP address; (0.0.0.0). This may also be specified as a hostname or a DNS name.
PEERPORT	Remote port	Any valid IP port number greater than 1024 <b>Note</b> This field is ignored by the TIOS subsystems at this time. The peerport value is contained in the XECfgParm field stPort. It should currently be set to 32767.
IPADDR	Local logical IP address	IP_Addr1, IP_Addr2, IP_Addr3, IP_Addr4;

**Table A-6 C7 IP Link Component Structure (continued)**

Parameter MML Name	Parameter Description	Parameter Values (Default)
TIMESLOT	Associated SP SS7 session id logically mapped to SS7 serial port	1 when using the signal processor; otherwise 0; (0)
SLC	Signaling link code	0 to 15; (1)
LNKSET	Signaling service this IP supports	MML name of previously defined Linkset or index of the Linkset for SNMP
NEXTHOP	Next hop address	IP address or hostname of the next hop; (0.0.0.0)
NETMASK	Subnet mask address	Subnet mask address; (255.255.255.255)

## Destination Point Code

The destination point code (DPC) component type represents an SS 7 destination point code with which the MGC NE communicates. Its MML name is as follows:

- MML Name—DPC

The destination point code component structure is shown in [Table A-7](#).

**Table A-7 Destination Point Code Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
NETADDR	Network address	String in dotted notation, for example, 1.1.1;
NETIND	Network indicator	; (0)

## DNS Parameters

This command is used to configure domain name system (DNS)-related parameters to support SIP URL. Its MML name is as follows:

- MML Name—DNSPARAM

The DNS component structure is shown in [Table A-8](#).

**Table A-8 DNS Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
DNSSERVER1	IP address of primary DNS server	This is mandatory and has no default value
DNSSERVER2	IP address of secondary DNS server	This is optional
CACHESIZE	Maximum cache entries used to hold DNS entries	Integer > 0; (500)
TTL	The time-to-live interval for DNS entries (in seconds)	Integer > 0; (3600)
POLICY	Policy for selection of DNS entries	Hierarchy or round-robin ( <i>hierarchy</i> )
QUERYTIMEOUT	The timeout interval for DNS queries (in milliseconds)	Integer > 0; (1000)
KEEPALIVE	The time interval in seconds to check if DNS server is responding	Integer > 0; (30)

## EISUP Signaling Service (sigpath)

The EISUP Signaling Service (sigpath) component with type x0019 is a network element that represents an EISUP signaling service or signaling path to another NE (destination). Its MML name is as follows:

- MML Name—EISUPPATH

The signaling service path component structure is shown in [Table A-9](#).

**Table A-9 Signaling Service Path Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
EXTNODE	External node MML name	MML name of previously defined external node or index of the external node for SNMP

## Ethernet Interface

The Ethernet interface component type represents an Ethernet interface used on the MGC. Its MML name is as follows:

- MML Name—ENETIF

The Ethernet Interface component structure is shown in [Table A-10](#).

**Table A-10 Ethernet Interface Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
CARD	Card which supports this Ethernet interface	MML name of previously defined card or index of the card for SNMP

## External Node

The external node component type represents another node with which the MGC communicates. Its MML name is as follows:

- MML Name—EXTNODE

## FAS Signaling Service (sigpath)

The FAS signaling service (sigpath) component type represents a FAS signaling service or signaling path to a particular destination using either ISDN-PRI or DPNSS. Its MML name is as follows:

- MML Name—FASPATH

The FAS Signaling Service component structure is shown in [Table A-11](#).

**Table A-11 FAS Signaling Service Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
SIDE	Q.931 call model side	User for user side and network for network side; ( <i>network</i> )
MDO	MDO file name	Valid protocol name from variants.dat
CUSTGRPID	VNET ID	Four digit ID; ( <i>0000</i> )
CUSTGRPTBL	VNET Table index	Four digit index; ( <i>0101</i> )
ABFLAG	DPNSS side	'a' or 'b' side, 'n' for not applicable; ( <i>n</i> )
CRLEN	Call reference length	1 for 1 byte or 2 for 2 byte call reference length; ( <i>2 for ISDNPRI and 0 for DPNSS</i> )

## Files

Files component type represent .dat files on the MGC. Their MML names are as follows:

- MML Name—FILES

The Files component structure is shown in [Table A-12](#).

**Table A-12 Files Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
NAME	File type	TKGFile for trunk group file, BCFile for bearer channel file, AWhiteFile for A number white list files, ABlackFile for B number black list files, BWhiteFile for B number white list files and BBlackFile for B number black list files
FILE	File name	File name. File should be present in the etc/cust_specific directory.
ACTION	Action to be performed on the files.	Import for converting customer files into .dat files. Export for converting .dat files into customer files. Export is not currently supported for the screening files.

## IPFAS Transport Service (previously PRI Signaling Backhaul)

The IPFAS transport service component type represents the FAS over IP transport service or signaling path from a media gateway to a MGC. Its MML name is as follows:

- MML Name—IPFASPath

The IPFAS transport service component structure is shown in [Table A-13](#).

**Table A-13 IPFAS Transport Service Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
EXTNODE	External node MML name	MML name of previously defined external node or index of the external node for SNMP
SIDE	Q.931 call model side	User for user side and network for network side; ( <i>network</i> )
MDO	MDO file name	Valid protocol name from variants.dat
CUSTGRPID	VNET ID	Four digit ID; ( <i>0000</i> )
CUSTGRPTBL	VNET Table index	Four digit index; ( <i>0101</i> )

**Table A-13 IPFAS Transport Service Component Structure (continued)**

ABFLAG	DPNSS side	'a' or 'b' side, 'n' for not applicable; ( <i>n</i> )
CRLEN	Call reference length	1 for 1 byte or 2 for 2 byte call reference length; ( <i>0</i> )

## IP Link

The IP link component type represents an IP link used on the MGC. These links are used to communicate with the access control devices such as a NAS, a CU, or an AVM. Its MML name is as follows:

- MML Name—IPLNK

The IP link service component structure is shown in [Table A-14](#).

**Table A-14 IP Link Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
IF	Ethernet interface MML name	MML name of a previously defined ENETIF or index of the ENETIF for SNMP
PORT	Local port number	Any valid IP port number greater than 1024 (Recommended setting of 2427 for MGCP and SGCP)
PRI	Priority	Integer greater than 0; ( <i>1</i> )
PEERADDR	Remote IP address	IP address; ( <i>0.0.0.0</i> ). This may also be specified as a hostname or a DNS name.
PEERPORT	Remote port	Any valid IP port number greater than 1024 (Recommended setting of 2427 for MGCP and SGCP)
IPADDR	Local logical IP address	IP_Addr1, IP_Addr2, IP_Addr3, IP_Addr4;
SIGSLOT	Physical Slot on the gateway where the T1/E1 is plugged into. Only used to support IPFAS	Integer 0 to 63; ( <i>0</i> )
SIGPORT	Physical Port on the gateway on the slot. Only used to support IPFAS	Integer 0 to 63; ( <i>0</i> )
SVC	Signaling service this IP supports	MML name of previously defined signal service or index of the signal service for SNMP



**Table A-14 IP Link Component Structure (continued)**

Parameter MML Name	Parameter Description	Parameter Values (Default)
NEXTHOP	Next hop address	IP address or hostname of the next hop; (0.0.0.0)
NETMASK	Subnet mask address	Subnet mask address; (255.255.255.255)

## Linkset

The linkset component type represents a linkset in an SS7 network used by the MGC to communicate with an STP. Its MML name is as follows:

- MML Name—LNKSET

The linkset component structure is shown in [Table A-15](#).

**Table A-15 Link Set Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
APC	Adjacent point code	MML name of previously defined adjacent point code or index of the adjacent point code for SNMP
PROTO	Protocol Family	SS7-ANSI, SS7-ITU, SS7-China, SS7-Japan, SS7-UK;
TYPE	Transport type	TDM for TDM linksets or IP for IP linksets; ( <i>TDM</i> )

## Linkset Property

The linkset property component type consists of configuration parameters that you can use to tune linkset communications. Its MML is as follows:

- MML Name—LNKSETPROP

The linkset component structure is shown in [Table A-16](#).

**Table A-16 Linkset Property Component Structure**

Parameter MML Name	Parameter Description	Default Value	Units
mtp2AermEmgThr	Alignment error rate monitor threshold duration for emergency operation. Value: One message.	1	Messages
mtp2AermNrmThr	Alignment error rate monitor threshold duration for normal operation. Value range: One through four messages.	4	Messages
mtp2CongDiscard	Discard frames upon entering congestion at MTP2. Set to true or false.	False	

Table A-16 Linkset Property Component Structure (continued)

Parameter MML Name	Parameter Description	Default Value	Units
mtp2LssuLen	Link status signal unit, status field length. Specify one or two.	SS7-ANSI = 1 SS7-UK = 1 SS7-CHINA = 1 SS7-ITU = 1 SS7-Japan = 2	Octets
mtp2MaxAlignRetries	Maximum number of attempts to align link before declaring it out-of-service (OOS). Value range: 1 through 10 attempts.  <b>Note</b> The Cisco MGC also reattempts link alignment every 5 seconds.	5	Attempts
mtp2MaxMsuFrmLen	Maximum frame length of a C7 message signal unit. Specify 62 or 272.	272	Octets
mtp2MaxOutsFrames	The maximum number of outstanding frames that can be sent without receiving acknowledgment. Value range: 1 through 127.	127	Frames
mtp2ProvingEmgT4	Emergency proving period. Value range: 5 through 7 tenths of a second.	SS7-ANSI = 6 SS7-UK = 6 SS7-CHINA = 6 SS7-ITU = 6 SS7-Japan = 30	Tenths of a second
mtp2ProvingNormalT4	Normal proving period. Value range: 1 through 3 seconds.	SS7-ANSI = 23 SS7-UK = 23 SS7-CHINA = 23 SS7-ITU = 23 SS7-Japan = 30	Tenths of a second
mtp2SuermThr	Signal unit error rate monitor threshold for emergency operation. Value range: 1 through 127.	64	Frames

**Note**

All timer values are expressed in tenths of a second. For example, 130 = 13 seconds.

mtp2T1	Maximum period in aligned/ready state before return to out-of-service state. Value range: 12 through 16 seconds (for ANSI) or 40 through 50 seconds (for BT, CHINA, and ITU).	SS7-ANSI = 130 SS7-UK = 450 SS7-CHINA = 450 SS7-ITU = 450 SS7-Japan = 150	Tenths of a second
mtp2T2	Maximum period in not aligned state before return to out-of-service state. Value range: 5 through 30 seconds.	SS7-ANSI = 115 SS7-UK = 250 SS7-CHINA = 250 SS7-ITU = 250 SS7-Japan = 50	Tenths of a second

Table A-16 Linkset Property Component Structure (continued)

Parameter MML Name	Parameter Description	Default Value	Units
mtp2T3	Maximum period in aligned state before return to out-of-service state. Value range: 5 through 14 seconds (for ANSI) or 1 through 2 seconds (for BT, CHINA, and ITU).	SS7-ANSI = 115 SS7-UK = 20 SS7-CHINA = 20 SS7-ITU = 20 SS7-Japan = 30	Tenths of a second
mtp2T5	Period for sending a SIB <sup>1</sup> message to far-end. Value range: 80 through 120 seconds.	1	Thousandths of a second
mtp2T6	Remote congestion timer. If congestion is not cleared before expiration of this timer, the link fails. Value range: 1 through 6 seconds (for ANSI) or 3 through 6 seconds (for BT, CHINA, and ITU).	SS7-ANSI = 30 SS7-UK = 60 SS7-CHINA = 60 SS7-ITU = 60 SS7-Japan = 30	Tenths of a second
mtp2T7	MTP2 acknowledgment timer. On expiration, the link fails and an “excessive delay of acknowledgment” management message is generated. Value range: 0.5 through 2 seconds (for BT, CHINA, and ITU).	SS7-ANSI = 10 SS7-UK = 10 SS7-CHINA = 10 SS7-ITU = 10 SS7-Japan = 20	Tenths of a second

**Note**

The mtp2 parameters are used with directly connected SS7 signaling links (for example, ITK or PTI cards).

mtp3ApcMtpRstrT28	Overall restart timer for signaling point adjacent to one whose MTP restarts. Value range: 3 through 35 seconds (for ANSI only).	SS7-ANSI = 50	Tenths of a second
mtp3DlnkConnAckT7	Waiting for signaling data link connection acknowledgment. Value range: 1 through 2 seconds, or through 5 seconds when connecting over a Cisco SLT.	SS7-ANSI = 10 SS7-UK = 10 SS7-CHINA = 10 SS7-ITU = 10 SS7-Japan = 20	Tenths of a second
mtp3FrcUnhT13	Waiting for force uninhibited. Value range: 0.8 through 1.5 seconds.	SS7-ANSI = 10 SS7-UK = 10 SS7-CHINA = 10 SS7-ITU = 10 SS7-Japan = 0	Tenths of a second
mtp3InhAckT14	Waiting for inhibit acknowledgment. Value range: 2 through 3 seconds.	SS7-ANSI = 20 SS7-UK = 20 SS7-CHINA = 20 SS7-ITU = 20 SS7-Japan = 0	Tenths of a second
mtp3LocInhTstT20	Waiting to repeat local inhibit test. Value range: 90 through 120 seconds (for ANSI only).	SS7-ANSI = 900	Tenths of a second

Table A-16 Linkset Property Component Structure (continued)

Parameter MML Name	Parameter Description	Default Value	Units
mtp3MaxSlTries	Maximum number of retries of signaling link test message. If MTP3 does not receive a response after two signaling link test messages, the system fails the link. Value range: 1 through 5.	SS7-ANSI = 2 SS7-UK = 2 SS7-CHINA = 2 SS7-ITU = 2 SS7-Japan = 0	Messages
mtp3MsgPriority	Message priority of management messages for congestion periods. Value range: 0 through 3.  Priority 1 (default) indicates without congestion priorities. Priorities greater than 1 indicate multiple congestion priorities. Priority 3 is the highest priority.	SS7-ANSI = 2 SS7-UK = 1 SS7-CHINA = 1 SS7-ITU = 2 <sup>2</sup> SS7-Japan = 1	
mtp3MtpRstrT20	Overall MTP restart timer at the signaling point whose MTP restarts. Value range: 59 through 61 seconds.  <b>Note</b> This parameter is for BT, CHINA, and ITU.	SS7-UK = 900 SS7-CHINA = 0 SS7-ITU = 600 SS7-Japan = 0	Tenths of a second
mtp3ApcMtpRstrT21	Overall MTP restart timer at an SP adjacent to an SP whose MTP restarts. Value range: 63 through 65 seconds.  <b>Note</b> This parameter is for BT, CHINA, and ITU.	SS7-UK = 640 SS7-CHINA = 0 SS7-ITU = 640 SS7-Japan = 0	Tenths of a second
mtp3LocInhTstT22	Waiting to repeat local inhibit test. Value range: 3 through 6 minutes.	SS7-UK = 3000 SS7-CHINA = 3000 SS7-ITU = 3000 SS7-Japan = 0	Tenths of a second
mtp3MtpRstrT24	Overall MTP restart timer for local MTP restart. Value range is network-dependent.	SS7-ANSI = 60	Tenths of a second
mtp3RepeatRstrT26	Traffic restart waiting message at local MTP restart. Value range: 12 through 15 seconds.	SS7-ANSI = 150	Tenths of a second
mtp3TfrUsed	Transfer restricted procedure is enabled (true) or disabled (false). Set to true or false.	SS7-ANSI = false SS7-UK = false SS7-CHINA = false SS7-ITU = false SS7-Japan = false	true/false
mtp3TraSnT29	Timer started when traffic restart allowed is sent in response to unexpected traffic restart allowed or traffic restart waiting. Value range: 60 through 65 seconds.	SS7-ANSI = 600	Tenths of a second
mtp3tstSlTmT1	Waiting for signaling link test acknowledgment message. This must be greater than the value in mtp2T6. Value range: 4 through 12 seconds.	SS7-ANSI = 60 SS7-UK = 50 SS7-CHINA = 50 SS7-ITU = 50 SS7-Japan = 50	Tenths of a second

Table A-16 Linkset Property Component Structure (continued)

Parameter MML Name	Parameter Description	Default Value	Units
mtp3tstSlmT2	Interval for sending signaling link test message. Value range: 30 through 90 seconds.	SS7-ANSI = 600 SS7-UK = 300 SS7-CHINA = 300 SS7-ITU = 300 SS7-Japan = 300	Tenths of a second
mtp3UnhAckT12	Waiting for uninhibited acknowledgment. Value range: 0.8 through 1.5 seconds.	SS7-ANSI = 10 SS7-UK = 10 SS7-CHINA = 10 SS7-ITU = 10 SS7-Japan = 0	Tenths of a second
mtp3T0	Not used.	SS7-Japan = 200	Tenths of a second
mtp3T7	Waiting for signaling data link connection acknowledgement. Value range: 1 through 20 seconds.	SS7-Japan = 20	Tenths of a second
mtp3T12	Waiting for signaling data link connection acknowledgement. Value range: 500 through 1500 milliseconds.	SS7-Japan = 0	Tenths of a second
mtp3T13	Same as mtp3FrcUnhT13.	SS7-Japan = 0	Tenths of a second
mtp3T14	Same as mtp3InhAckT14.	SS7-Japan = 0	Tenths of a second
mtp3T20	Same as mtp3MtpRstrT20.	SS7-Japan = 0	Tenths of a second
mtp3T21	Same as mtp3ApcMtpRstrT21.	SS7-Japan = 0	Tenths of a second
mtp3T22	Same as mtp3LocInhTstT22.	SS7-Japan = 0	Tenths of a second
reference	Denotes versions for protocol standards supported for MTP. For SS7-ANSI: options ANSI92, ANSI96. For SS7-UK, SS7-CHINA, SS7-ITU: options ITU88 and ITU92 For SS7-JAPAN: options NTT, TTC.	SS7-ANSI = ANSI96 SS7-UK = ITU92 SS7-CHINA = ITU92 SS7-ITU = ITU92 SS7-Japan = NTT	
rudpAck	Not used.	Enable	
rudpKeepAlives	Not used.	Enable	
rudpNumRetx	The maximum number for retransmission count. Value range: 1 through 100.	2	
rudpWindowSz	The maximum number for unacknowledged Segments in the RUDP window. Value range: 2 through 64.	32	
rudpRetxTimer	The retransmission timeout. Value range: 2 through 100.	6	Tenths of a second
rudpSdm	Not used.	Enable	

1. SIB = Status indication busy
2. You cannot configure the SS7-ITU.mtp3MsgPriority property in release 7.4(x) using MML or CMM. Refer to the [“Disabling the Message Priority Feature” section on page 2-9](#) for detailed instructions.

## MGCP Signaling Service

The MGCP Signaling Service component type represents the MGCP signaling service or signaling path to a trunking gateway. Its MML name is as follows:

- MML Name—MGCPPATH

The MGCP signaling service structure is shown in [Table A-17](#).

**Table A-17 MGCP Signaling Service Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
EXTNODE	External node MML name	MML name of previously defined external node or index of the external node for SNMP

## Nailed Trunk (Bearer Channel)

The Nailed Trunk component facilitates the provisioning of the individual nailed bearer channels used in a Cisco SS7 Interconnect for Access Servers Solution or Classic MGC configuration. Its MML name is as follows:

- MML Name—NAILEDTRNK

The linkset component structure is shown in [Table A-18](#).

**Table A-18 Nailed Trunk (Bearer Channel) Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
NAME	Trunk identifier	Integer greater than 0
SRCSVC	MML name of source service	MML name of a previously defined signaling service
DSTSVC	MML name of destination service	MML name of a previously defined signaling service
SPANSIZE	Number of trunks per span	Integer greater than 0 and less than 31; (1)
SRCSPAN	Source span	Integer or ffff; (0)
DSTSPAN	Destination span	Integer or ffff; (0)
SRCTIMESLOT	Source timeslot	String or ffff; (0)
DSTTIMESLOT	Destination timeslot	String or ffff; (0)

## NAS Signaling Service (sigpath)

The NAS signaling service component type represents an ISDN signaling service or signaling path that is back-hauled over IP to and from a NAS (destination). Its MML name is as follows:

- MML Name—NASPATH

The linkset component structure is shown in [Table A-19](#).

**Table A-19 NAS Signaling Service (sigpath) Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
MDO	MDO file name	Valid protocol name from variants.dat
EXTNODE	External node MML name	MML name of previously defined external node or index of the external node for SNMP
CUSTGRPID	Customer group ID	Four-digits ID (0000) <b>Note</b> If a dial plan is present, do not set this value to 0000.

## Originating Point Code

The originating point code component type represents an SS7 point code used by the MGC NE. Its MML name is as follows:

- MML Name—OPC

The linkset component structure is shown in [Table A-20](#).

**Table A-20 Point Code Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
NETADDR	Network address	String in dotted notation, for example, 1.1.1;
NETIND	Network indicator	; (0)
TYPE	Type of the OPC	TRUEOPC or CAPOPC
TRUEOPC	MML name of the true OPC that the capability OPC associated with	The MML name of previously defined true OPC. It only applies to the capability OPC.

## Routing

The routing file is not configurable from SNMP, but the file can be moved onto the MGC using FTP and associated with the relevant session using SNMP.

The routing component structure is shown in [Table A-21](#).

**Table A-21 Routing Component Structure**

Component MML Name	Parameter MML Name	Parameter Description	Parameter Values (Default)
	URL	SIP proxy service address in the format of IP address, hostname, or DNS name ( <i>x@y</i> ).	
	SIPPROXYPORT	UDP port number used by the SIP proxy server	
	VERSION	SIP version of the SIP proxy server	
	CUTTHROUGH	Cut through	1-65,535; (0)
	EXTSUPPORT	SIP extension supported	0-1; (0)
	SRVRR	URL is SRV DNS name	0-1; (0)
RTLST	NAME	Route List Name	20 alphanumeric
	RTNAME	Route Name	; (0)
	NEXTRTNAME	Next Route Name	20 alphanumeric
RTTRNK	NAME	Route Name	20 alphanumeric
	TRNKGRPNUM	Trunk group number	; (0)
RTTRNKGRP	NAME	Trunk group number	Unique name for this routing trunk group number. ; (0) 0 through 65535



Table A-21 Routing Component Structure (continued)

Component MML Name	Parameter MML Name	Parameter Description	Parameter Values (Default)
	TYPE	Trunk group type	; (0) 0 to 8 0 = TDM_GEN—Used with SS7 signaling services with switch types not equal to 0, 5, or 20. 1 = TDM_ISUP (default)—Used with SS7 signaling services with switch types of 0 or 20. 2 = TDM_CAS—currently not supported. 3 = TDM_TUP—Used with SS7 signaling services with switch type of 5. 4 = IP—Used with EISUP signaling service. 5 = ATM—Used with VSI path signaling service 6 = TDM_DPNSS—Used with DPNSS protocol family signaling services 7 = TDM_PRI—Used with ISDN PRI protocol family signaling services. 8 = TDM_BTNUP—Used with SS7 signaling services with switch type 5.
	REATTEMPTS	Number of reattempts	; (0) 0 to 5
	QUEUING	Queuing time	; (0) 0 to 120
	CUTTHROUGH	Cut through	; (0) 0 to 3 0 = Undefined 2 = ACM 3 = Answer

## SGCP Signaling Service (sigpath)

The SGCP Signaling Service (sigpath) component type represents an SGCP signaling service or signaling path to an access control unit (destination). Its MML name is as follows:

- MML Name—SGCPPATH

The SGCP signaling service component structure is shown in [Table A-22](#).

**Table A-22 SGCP Signaling Service Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
EXTNODE	External node MML name	MML name of previously defined external node or index of the external node for SNMP

## SS7 Route

The SS7 route component type represents an SS7 route. It is used to determine how to get an SS7 message to a particular destination. Its MML name is as follows:

- MML Name—SS7ROUTE

The SS7 route component structure is shown in [Table A-23](#).

**Table A-23 SS7 Route Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
DPC	Destination point code MML name	MML name of previously defined point code or index of the point code for SNMP
LNKSET	Linkset MML name	MML name of previously defined linkset or index of the linkset for SNMP
OPC	Origination point code MML name	MML name of previously defined point code or index of the point code for SNMP
PRI	Priority	Integer greater than 0; (1)

## SS7 Signaling Service Properties

The SS7 signaling service properties component types serve as configuration parameters that you can use to tune signaling service communications. These properties apply to all SS7 signaling services you create. You do not have to enter these values. The MML name is as follows:

- MML component name: SIGSVCPROP

The SS7 signaling service structure is shown in [Table A-24](#).

**Table A-24 SS7 Signaling Service Property Descriptions**

Parameter MML Name	Parameter Description	Parameter Values
adjDestinations	Number of adjacent destination point codes.	Value range: 1 through 256. Default = 16
BOrigStartIndex	Specifies the starting number analysis digit index for call originations.	Value range: 0 or 1. Default = 0

Table A-24 SS7 Signaling Service Property Descriptions (continued)

Parameter MML Name	Parameter Description	Parameter Values
BTermStartIndex	Specifies the starting number analysis digit index for call terminations.	Value range: 0 or 2. Default = 0
BothwayWorking	Set to 0 to disable both way release/circuit free handling for BTNUP protocol.  <b>Note</b> Both the local and remote circuits between which the BothwayWorking parameter operates must be the same type—unidirectional or bidirectional. The Bearer Release Sequence operates differently depending on the type of circuit detected at the local end.	Value range: 0 or 1. Default = 1
CGBA2	Determines if group (0) or individual (1) circuit group blocking acknowledgments (CGBAs) are required before the blocking is considered successful. Applicable only to ANSI SS7, IBN7, and CTUP protocols.  <b>Note</b> When set to 1, a significant performance impact occurs for individual circuit supervision messages during maintenance or during a failure condition.	Value range: 0 or 1. (Only available in software Release 7.4(12) and later.) Default = 0
CLIDefaultAllowed	Sets the presentation restricted field in the calling line identity (CLI).  When set to TRUE 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.  When set to FALSE 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.	Value range: TRUE (1) or FALSE (0) Default: FALSE  <b>Note</b> Used in all protocols that are based on Q761.  <b>Note</b> Only valid for ISDN PRI inbound to either C7 ISUP outbound or ISDN PRI outbound.
CLIPEss	Set to 1 to force request of calling line identity if not automatically provided. Value range: 0 or 1.	Default = 0

Table A-24 SS7 Signaling Service Property Descriptions (continued)

Parameter MML Name	Parameter Description	Parameter Values
COLDefaultAllowed	<p>Sets the presentation restricted field in the connected line identity.</p> <p>When set to TRUE 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.</p> <p>When set to FALSE 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.</p>	<p>Value range: TRUE (1) or FALSE (0)</p> <p>Default: FALSE</p> <p><b>Note</b> Used in all protocols that are based on q761 except HONG_KONG, AUSTRALIA, FRENCH, NTT, JAPAN_JT.</p>
CotInTone	Receive tone for continuity test (COT) hardware. The tone to listen for when doing a COT. Enter value in Hz.	<p>Value: 1780 or 2010.</p> <p>Default = 2000 ± 20</p>
CotListenDuration	Maximum period to listen for a COT.	<p>Value range: 0 through 200, specified in milliseconds (should be less than 2 seconds). The T24 timer will be set for 60.</p> <p>Default = 60</p>
CotOutTone	Transmit tone for COT hardware. The tone that is produced.	<p>Enter value in Hz. Value: 1780 or 2010.</p> <p>Default = 2000 ± 20</p>
CotPercentage	Statistical COT.	<p>Value range: 0 through 100%.</p> <p>Default = 0</p>
CotPlayDuration	Maximum period in not aligned state before return to out-of-service state (should be less than or equal to the CotListenDuration).	<p>Value range: 1 through 200, specified in milliseconds.</p> <p>Default = 60</p>
dialogRange	TCAP transaction ID range (for example, 1 through 10000) for a specific subsystem.	<p>0 = entire range.</p> <p>Default = 0</p>
ExtCOT	Determines the type of COT handling for the specified destination.	<p>Values: 0—no COT, loop, or transponder.</p> <p>Default = Loop</p>
ForwardCLIinIAM	Set to 1 if outgoing IAM should contain the calling line identity, if available. Only applicable for BTNUP when interworking from other protocols.	<p>Value range: 0 or 1.</p> <p>Default = 0</p>
ForwardSegmentedNEED	Set to 0 to disable the forwarding of segmented NEED messages within the BTNUP_NRC protocol. If segmenting is disabled, all mandatory DPNSS information elements are packed into a single BTNUP NEED message.	<p>Value range: 0 or 1.</p> <p>Default = 1</p>

Table A-24 SS7 Signaling Service Property Descriptions (continued)

Parameter MML Name	Parameter Description	Parameter Values
GLARE	Call collision handling.	<p>Valid values are:</p> <ul style="list-style-type: none"> <li>0 = No glare handling; also known as yield to all double seizures. Call collision results in a REL sent to both calls.</li> </ul> <p><b>Note</b> Both ends of a link can be given this option.</p> <ul style="list-style-type: none"> <li>1 = The Cisco MGC has control of all circuits, and any call collisions are handled by this Cisco MGC. The MGC ignores incoming IAMs and proceeds with its own calls as normal.</li> </ul> <p><b>Note</b> Only one end of a link can be designated with this option.</p> <ul style="list-style-type: none"> <li>2 = Highest point code controls the even circuits. Depending on the OPC of the Cisco MGCs, the side that has the higher point code controls the even circuits, and the side that has the lower point code controls the odd circuits.</li> </ul> <p><b>Note</b> Both ends of a link can be given this option.</p> <ul style="list-style-type: none"> <li>3 = No control. The Cisco MGC specified with this option does not control any circuits. The Cisco MGC accepts incoming IAMs from the side with control.</li> </ul> <p><b>Note</b> This option is usually used along with the remote node designated with control.</p> <p>Default = 0</p>
GRA2	Determines if paired (0) or single (1) group reset acknowledgments (GRAs) are required before the reset is considered successful. Only applicable to ANSI SS7, IBN7, and CTUP protocols.	<p>Value range: 0 or 1.</p> <p>Default = 0</p>
GRSEnabled	This property is assigned to an SS7 point code type signal path. Enables group reset and blocking procedure at point code initialization. Synchronizes the Cisco MGC bearer channel blocking state with that of the end office.	<p>If true, GRS messages are sent for all CICs associated with the point code.</p> <p>If false, GRS messages are not sent.</p> <p>Default = false</p>

Table A-24 SS7 Signaling Service Property Descriptions (continued)

Parameter MML Name	Parameter Description	Parameter Values
hopCount	Default hop count.	Value range: 0 or 15 (this indicates the maximum number of hops allowed for SCCP messages). Default = 1
InternationalPrefix	International prefix string to be added to the international dialed number when NOA is enabled.	Value range: NULL or a numeric string. Default = NULL
layerRetries	Number of times to resend request to adjacent layer without getting a response.	Value range: 0 through 5. 0 = no retries. Default = 2
layerTimer	Time (in tenths of a second) to wait for a response from adjacent layer (SS7 controller, TCAP to SCCP); tailor when layers are not resident on same processor.	Value range: 0 through 10. 0 = Disabled, 10 = 1 second. Default = 10
maxMessageLength	Maximum length of message to MTP3.	This value must be less than the value for mtp2MaxMsuFrmLen. Value range: 0 through 272. Default = 250
NationalPrefix	National prefix string to be added to the national dialed number when NOA is enabled.	Value range: NULL or a number string. Default = NULL
NatureOfAddrHandling	Determines whether or not preanalysis is performed	Default = 0
Normalization	Normalization of dialed number to unknown.	Set to 0 for disabled and 1 for enabled. Value range: 0 or 1. Default = 0
OMaxDigits	Specifies maximum number of digits to receive for overlap digit processing for call origination from this traffic path.	Value range: 0 through system maximum. Default = 24
OMinDigits	Specifies minimum number of digits to receive for overlap digit processing for call origination from this traffic path.	Value range: 0 through system maximum. Default = 0
OOverlap	Set to 1 to enable overlap signaling for call origination from this traffic path.	Value range: 0 through system maximum. Default = 0
OverlapDigitTime	Overlap interdigit timer. The time to wait for the rest of the digits.  <b>Note</b> If OverlapDigitTimeValue timer is set to more than thirty seconds, other timers expire before this timer.	Value range: 0 through 60. Default = 6
OwnClli	Specifies the common language location identifier (CLLI).	Value range: Alphanumeric string, up to 11 characters.

Table A-24 SS7 Signaling Service Property Descriptions (continued)

Parameter MML Name	Parameter Description	Parameter Values
RedirMax	Specifies the maximum allowable value of the redirection counter parameter available in some C7 signaling systems before the call is force-released. Used to prevent routing loops in certain applications.	Value range: 0 through system maximum. Default = 3
restartTimer	Time (in tenths of a second) to pause before sending next group of messages to MTP3 after restart.	Value range: 0 through 100. 0 = Disabled, 10 = 1 second. Default = 10
RoutePref	Determines the preferred route.	Value range: 0 through 9. 0 = No Preference (default)    5 = IP Preferred 1 = ATM Essential                6 = IP Excluded 2 = ATM Preferred                7 = TDM Essential 3 = ATM Excluded                8 = TDM Preferred 4 = IP Essential                 9 = TDM Excluded Default = 0
sendAfterRestart	Number of queued messages to send (in one group) to MTP3 after restart end. This value, combined with the sendTimer, controls the amount of data sent to MTP3 after restart ends. If too much data is sent to MTP3 after restart, MTP3 could be flooded.	Value range: 0 through 256. Default = SS7-ANSI = 16
slsTimer	Time (in tenths of a second) to maintain the same signal linkset in class 1 (connectionless) messages. This is the type of service provided by the SCCP layer.	Value range: 0 through 600. 0 = Disabled, 300 = 30 seconds. Default = SS7-ANSI = 300
srtTimer	Time (in tenths of a second) between the sending of Subsystem Route Test message (SRT) to remote subsystems.	Value range: 0 through 3000. 0 = disabled, 300 = 30 seconds. Default = SS7-ANSI = 300
ssfTimer	Time (in tenths of a second) between the sending of Subsystem Status Test (SST) messages to an unavailable remote subsystem.	Value range: 0 through 3000. 0 = Disabled, 300 = 30 seconds Default = SS7-ANSI = 300

**Table A-24 SS7 Signaling Service Property Descriptions (continued)**

Parameter MML Name	Parameter Description	Parameter Values
standard	Version of protocol standard supported for this STP/SCP.	SS7-ANSI = ANSI96, SS7-ITU = ITU96,  ANSI96, ITU96, ANSI92, ITU92
TMaxDigits	Specifies maximum number of digits to receive for overlap digit processing for call termination to this traffic path.	Value range: 0 through system maximum. Default = 24
TMinDigits	Specifies minimum number of digits to receive for overlap digit processing for call termination to this traffic path.	Value range: 0 through system maximum. Default = 0
TOverlap	Set to 1 to enable overlap signaling for call termination to this traffic path.	Value range: 0 or 1. Default = 0
variant	SS7 protocol variants supported by local subsystem.	Default = SS7-ANSI=SS7-ANSI,SS7-ITU
VOIPPrefix	A numeric string.	Default = 0

## SS7 Signaling Service (sigpath)

The SS7 Signaling Service (sigpath) component type represents an SS7 signaling service or signaling path to a particular SS7 switch (destination). Its MML name is as follows:

- MML Name—SS7PATH

The SS7 signaling service component structure is shown in [Table A-25](#).

**Table A-25 SS7 Signaling Service Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
SIDE	Q.931 call model side	User for user side and network for network side; ( <i>network</i> )
MDO	MDO file name	Valid protocol name from variants.dat
DPC	Destination point code MML name	MML name of previously defined point code or index of the point code for SNMP
CUSTGRPID	VNET ID	Four digit ID; ( <i>0000</i> )
CUSTGRPTBL	VNET Table index	Four digit index; ( <i>0101</i> )

## SS7 Subsystem

The SS7 subsystem component type represents an SS7 subsystem. It is used for specifying mated STPs and to provide LNP support through a SCP. Its MML name is as follows:



- MML Name—SS7SUBSYS

The SS7 subsystem component structure is shown in [Table A-26](#).

**Table A-26 SS7 Subsystem Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
SVC	MML name of Adjacent point code or TCAP/IP service	MML name of previously defined adjacent point code or index of the adjacent point code for SNMP, or MML name of previously defined TCAP/IP service or index of the TCAP/IP service for SNMP
PROTO	Protocol family	SS7-ANSI, SS7-ITU, SS7-China, or SS7-Japan, SS7-UK. (“”)
MATEDAPC	Adjacent point code of the mated STP	MML name of previously defined adjacent point code or index of the adjacent point code for SNMP used when mating STPs
PRI	Priority	Integer greater than 0; (1)
SSN	Subsystem number	Integer from 0 through 255; Can be set to non-zero only for SS7-ANSI, SS7-ETSI, or SS7-ITU. If SSN is set to 0, the subsystem is used for mating two STPs; (0)
STPSCPIND	STP/SCP index used for IN triggers	Integer greater than 0; (0)
TRANSPROTO	Transport protocol	SCCP or TCPIP. If SVC is an APC, SCCP should be used. If SVC is a TCAP over IP service then TCPIP should be used; (SCCP)
N/A	Translation file name	Currently not used (“na”)

## Switched Trunk Provisioning

This is the MGC NE component and represents a trunk (switched bearer channels). This component does not have a component type. Its MML name is as follows:

- MML Name—SWITCHTRNK

The switched trunk provisioning component structure is shown in [Table A-27](#).

**Table A-27 Switched Trunk Provisioning Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
NAME	Trunk group member number	Integer greater than 0
TRNKGRPNUM	Trunk group number	Integer from 1 through 65535. This parameter is mandatory for all operations
SPAN	Span	Integer from 1 through 65535 or ffff
CIC	Circuit Identifier Code.	Integer from 1 through 65535

**Table A-27 Switched Trunk Provisioning Component Structure (continued)**

Parameter MML Name	Parameter Description	Parameter Values (Default)
CU	Coding Unit MML name	MML name of previously defined CU
ENDPOINT	End point	End point
SPANSIZE	Number of trunks per span.	Integer greater than 0 and less than 31; (1)

## TCAP Over IP Signaling Service

The TCAP over IP Signaling Service component type represents the TCAP over IP signaling service or signaling path to an STP/SCP. Its MML name is as follows:

- MML Name—TCAPIPPATH

The TCAP over IP component structure is shown in [Table A-28](#).

**Table A-28 TCAP Over IP Signaling Service Component Type**

Parameter MML Name	Parameter Description	Parameter Values (Default)
EXTNODE	External node MML name	MML name of previously defined external node or index of the external node for SNMP

## TDM Interface

The TDM interface component type represents a TDM interface used on the MGC. Its MML name is as follows:

- MML Name—TDMIF

The TDM interface component structure is shown in [Table A-29](#).

**Table A-29 TDM Interface Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
CARD	Card which supports this TDM interface	MML name of previously defined card or index of the card for SNMP
LIFNUM	Line interface number	1 to 4 for V35, 1 otherwise; (1)
RESIST	Resistance	75 for ITK(T1), 120 for ITK (E1); otherwise 0; (75)
DATARATE	Data rate	Used only for V.35 card. Values are 48,56, or 64. (64)
CLOCK	Internal or external	Used only for V.35 card. Values are EXT, INT; otherwise NA; (EXT).

**Table A-29 TDM Interface Component Structure (continued)**

Parameter MML Name	Parameter Description	Parameter Values (Default)
DTEDCE	DTE or DCE	Used only for V.35 card. Values are DTE, DCE; otherwise NA; ( <i>DTE</i> ).
CODING	Line coding	Used only for ITK card. AMI (alternate mark inversion) and B8ZS (bit stuffing for clear channel) for T1, HDB3 for E1; Default value is B8ZS for T1, HDB3 for E1, and NA for V.35. ( <i>B8ZS</i> )
FORMAT	Interface Format	Used only for ITK card. ESF (extended super frame) and D4 (super frame) for T1, CRC4 and CCS for E1. Default value is ESF for T1, CRC4 for E1, and NA for V.35. ( <i>ESF</i> )
SIGTYPE	Signal type	T1 for DS1 T1, CEPT for European E1, V.35 for 64KBPS digital. ( <i>T1</i> )
HDLC	High-level Data Link Control	DEFAULT(HDLC) and IHDLC for ITK; otherwise not used; ( <i>DEFAULT</i> )

## TDM Link

The TDM link component type represents a TDM link used on the MGC. Its MML name is as follows:

- MML Name—TDMLNK

The TDM interface component structure is shown in [Table A-30](#).

**Table A-30 TDM Link Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
SLC	Signaling Link Code	0 to 15; ( <i>1</i> )
PRI	Priority	Integer greater than 0; ( <i>1</i> )
SVC	Signaling service this links supports	MML name of previously defined signal service or linkset or index of the signal service for SNMP
IF	TDM interface this link in on	MML name of previously defined TDMIF or index of the TDMIF for SNMP
TIMESLOT	Timeslot this link uses	1 to 32 for E1, 1 to 24 for T1; ( <i>1</i> )

## Trunk Group Provisioning

Trunk group provisioning component type represents a trunk group. This component is supported by MML only. Its MML name is as follows:

- MML Name—TRNKGRP

The trunk group provisioning interface component structure is shown in [Table A-31](#).

**Table A-31 Trunk Group Provisioning Component Structure**

Parameter MML Name	Parameter Description	Parameter Values (Default)
NAME	Trunk group number	Integer greater than 0;
CLLI	CLLI	Value range: Alphanumeric string, up to 11 characters.
SVC	Signaling service	MML name of previously defined signal service.
TYPE	Trunk group type	One of the following, TDM_GEN, TDM_ISUP, TDM_CAS, TDM_TUP, TDM_DPNSS, TDM_PRI, TDM_BTNUP, IP, ATM.
SELSEQ	Select sequence	One of the following, LIDL, MIDL, ASC, DESC, RDM, EDESC, ODESC, EASC, OASC, CASC, CDESC.
QABLE	Timeslot this link uses	Y or N; (N)

## Trunk Group Property

The trunk group property component type represents trunk group properties. This component is supported by MML only. Its MML name is as follows:

- MML Name—TRNKGRPPROP

The trunk group provisioning interface component structure is shown in [Table A-32](#).

**Table A-32 Trunk Group File Properties Descriptions**

Parameter MML Name	Parameter Description	Parameter Values
RingNoAnswer	Ring no answer. Indicates the time, in seconds, ringing is allowed to occur.	Value range: 0 through 255, which is converted to milliseconds.
GLARE	Glare control. Glare is a collision that occurs when two network nodes simultaneously attempt to reserve the same channel.	Values are: 1 (always), 2 (even/odd), or 3 (never) (default).
CotPercentage	Determines the percentage of calls on the trunk upon which a continuity test is performed.	Value range: 0 through 100.

**Table A-32 Trunk Group File Properties Descriptions (continued)**

<b>Parameter MML Name</b>	<b>Parameter Description</b>	<b>Parameter Values</b>
VSF	Virtual switch fabric priority. Determines if the gateway attempts to find a trunk on the same gateway as the incoming trunk or on any available trunk.	Values are: 0 (no) (default) or 1 (yes).
SatelliteInd	Satellite indicator. Indicates if the trunk is going over a satellite.	Values are: 0 (no) (default) or 1 (yes).
Npa	Numbering plan area. Indicates the NPA code associated with the incoming trunk group.	Value range: 0 (none), or 200 through 999.
CarrierScreening	Defines if carrier screening and selection are to be applied on this call (using the Carrier Translation table).	Values are: 0 (do not apply) or 1 (apply carrier selection).
OrigCarrierID	Supplies the carrier ID digit string for the trunk group which can then be referenced against any carrier ID received in the incoming message.	Valid values: up to 5-digit number. Default: 00
DatabaseAccessError	Determines the action to take (with regard to call processing) if access to MMDB fails.	Values are: 0 (continue) (default), or 1 (reject call).
CustGrpId	Customer group ID. The ID of the customer associated with this trunk group.	Value range: 0 (if not defined) or any 4-character alphanumeric string.
BOrigStartIndex	B originating start index. Identifies the entry point into the originating side of the dial plan.	Values are: 0 (no dial plan) or 1 (for the first node in the originating digit tree).
BTermStartIndex	B terminating start index. Identifies the entry point into the terminating side of the dial plan.	Values are: 0 (no dial plan) or 2 (for the first node in the terminating digit tree).
CompressionType	Compression type. Indicates the G.711 compression type used on the trunk.	Values are: 0 (none), 1 (mu-law), or 2 (A-law).
EchoCancellation	Echo cancellation. Indicates if echo cancellation is required.	Values are: 0 (not required) or 1 (required).

## Dial Plan Provisioning Components

All components have a name parameter, which is the MML name, and a description, which is a text description. The dial plan provisioning components are shown in [Table A-33](#).

**Table A-33** Dial Plan Provisioning Components

Component MML Name	Parameter MML Name	Parameter Description	Parameter Values (Default)
DIALPLAN			
ADIGTREE	SETNAME	Result Set Name	MML name of the result set; (x)
	DIGITTOPPRESENT	Digit	(0) It is set to 0 if it is the next digit otherwise it is the appropriate digit application point
	CALLSIDE	string	Call side is like originating, terminating; (x)
	DIGITSTRING	Digits	; (x) Could not use with NEXTNODE or DIGIT or INDEX
BDIGTREE	SETNAME	Result Set Name	MML name of the result set; (x)
	DIGITTOPPRESENT	Digit	(0) It is set to 0 if it is the next digit otherwise it is the appropriate digit application point
	CALLSIDE	string	Call side is like originating, terminating; (x)
	DIGITSTRING	Digits	; (x) Could not use with NEXTNODE or DIGIT or INDEX
RESULTTABLE	NAME	Result Name	MML name of the result; (x), has to be set
	RESULTTYPE	Result type	; (0)
	DW1	Data word 1	; (x)
	DW2	Data word 2	; (x)
	DW3	Data word 3	; (x)
	DW4	Data word 4	; (x)
	NEXTRESULT	Next result name	; (x)
	SETNAME	Result Set Name	MML name of the result set; (x), has to be set
DIGMODSTRING	NAME	Digit Modification Name	MML name of the digit modification string; (x)
	DIGSTRING	Digit string	; (x)
NOA	NOAVALUE	NOA Value	; (0)
	NPIBLOCK	NPI block	; (0)
	SETNAME	Result Set Name	MML name of the result set; (x)
NPI	NPIBLOCK	NPI block	; (0)
	BLOCKVALUE	Block value	0 to 15; (-1) If the block value is not specified the result index is applied to all block values (0 to 15).
	SETNAME	Result Set Name	MML name of the result set; (x)
CAUSE	CAUSEVALUE	Cause Value	; (0)
	LOCATIONBLOCK	Location block	; (0)

Table A-33 Dial Plan Provisioning Components (continued)

Component MML Name	Parameter MML Name	Parameter Description	Parameter Values (Default)
	SETNAME	Result Set Name	MML name of the result set; (x)
LOCATION	LOCATIONBLOCK	Location Block	; (0)
	SETNAME	Result Set Name	MML name of the result set; (x)
	BLOCKVALUE	Block value	0 to 15; (-1) If the block value is not specified the result index is applied to all block values (0 to 15).
SERVICE	NAME	Service name	MML name of the service; (x)
RESULTSET	NAME	Result Set Name	MML name of the result set; (x). Has to be set.
AWHITE	CLI	Calling Line Identity	
ABLACK	CLI	Calling Line Identity	
BWHITE	CLI	Calling Line Identity	
	SVCNAME	Service name	MML name of a previously defined service; (x)
BBLACK	CLI	Calling Line Identity	
	SVCNAME	Service name	MML name of a previously defined service; (x)
DEFRESULTSET	RESULTTYPE	Result type	; (0)
	DW1	Data word 1	; (x)
	DW2	Data word 2	; (x)
	DW3	Data word 3	; (x)
	DW4	Data word 4	; (x)

To add/modify/delete the contents of a dial plan table, an active provisioning session is required. At the time of deploy/copy, dial plan files from the provisioning directory will be copied to the active directory. Active directory for dial plan files is \$BASEDIR/dialPlan.

All the TIDs with the exception of DIALPLAN need customer group ID and a name. DIALPLAN needs customer group ID only. The verb ED cannot be used with the DIALPLAN. The verb RTRV can be used with DIALPLAN to determine all of the dial plans currently configured. The result table and the result set support name only, and not index to refer to the entry.

Routes and digit modification string table should be provisioned before result and digit tree tables.

When an index is added to a table the missing indices are also added with default values. For example, if index 10 is added to A digit tree table, and indices 4 to 9 are missing, they will be added with default values.

When an index is deleted from a result or digit tree table, all the elements in the index are made zero. When an index is deleted from routes or digit modification string table all the elements in the index are made 'x'. When an index is deleted from any table and if there are no indices with non-default values following this index, all the indices following this index will be deleted.

The modify command is not supported for result sets as modifies would be done at the result table level.

The modify command is not supported for the service table.

When an entry is added to the result table, the corresponding entry will be added to the result set table.

When an entry is deleted from the result set table, the corresponding entries will be deleted from the result table.

Index is no longer required to perform any operations on the result table, service table, or digit modification table.

The result set can not be modified for a result table.

The TIDs dialplan, resulttable, digmodstring, noa, npi, cause, location, service, and resultset support the ability to retrieve all entries in the table by specifying “all”. For example:

```
numan-rtrv:resultset:custgrpid="T001","all".
```

The TIDs adigtree and bdigtree support the ability to retrieve all entries in the table by either not specifying a digitstring or specifying an empty digitstring. For example:

```
numan-rtrv:adigtree:custgrpid= "T001",digitstring=""
```

## Processes

This section describes every process that the MGC is responsible for monitoring. Three different monitoring levels are offered:

- **Active Process**—A process identified in the record that is controlled and monitored directly by the Process Manager.
- **Passive Process**—A process identified in the record that does not communicate with the Process Manager.
- **Monitoring Process**—A process that periodically runs an executable or script and sets or clears an alarm based on the return code. This type of process may monitor other processes or tasks that can be checked programmatically. Examples include the amount of disk space, system daemon existence, and established process dependency.

Table A-34 contains an alphabetical listing of process names and their descriptions.

**Table A-34 Processes**

Process	Description
“ALM-01”	Alarm manager. It is part of the process group XEG-01. It is an active process. If it should go down, it causes a major out-of-service alarm.
“AMDMPR-01”	Alarm and measurement dumper. It is part of the process group XEG-01. It is an active process. If it should go down, it causes a major out-of-service alarm.
“CDRDMPR-01”	CDR dumper. It is part of the process group XEG-01. It is an active process. If it should go down, it causes a major out-of-service alarm.
“CFM-01”	Configuration manager. It is part of the process group XEG-01. It is an active process. If it should go down, it causes a major out-of-service alarm.
“DSKM-01”	Disk space monitor. This shell script monitors disk space and trims back older files in case the current amount of free space is below a specified threshold.  It is part of the process group PFMG-01. This is a monitoring process. If it should go down, it causes a minor out-of-service alarm.



Table A-34 Processes (continued)

Process	Description
“ENG-01”	Engine. It is part of the process group ENGG-01. It is an active process. If it should go down, it causes a critical out-of-service alarm.
“FOD-01”	Failover controller. It is part of the process group FTG-01. It is a monitoring process. If it should go down, it causes a minor out-of-service alarm.
“IOCC-01”	IOS channel controller. It is part of the process group IOSG-01. It is a passive process. If it should go down, it causes a critical out-of-service alarm.
“IOCC-02”	IOS channel controller. It is part of the process group IOSG-01. It is a passive process. If it should go down, it causes a critical out-of-service alarm.
“IOCM-01”	IOS channel manager. It is part of the process group IOSG-01. It is a passive process. If it should go down, it causes a major out-of-service alarm.
“LOG-01”	Log server. It is part of the process group LOGG-01. It is a passive process. If it should go down, it causes a minor out-of-service alarm.
“MEASAGT”	Measurements SNMP agent. It is part of the process group SNMPG-01. This is an active process. If it should go down, this is a major out-of-service alarm.
“MM-01”	Measurement manager. It is part of the process group XEG-01. It is an active process. If it should go down, it causes a major out-of-service alarm.
“MMDB-01”	TimesTen DataBase Process. It is part of the process group XEG-01. It is a passive process. If it should go down, it causes a minor out-of-service alarm.
“OPERSAGT”	Operational SNMP Agent. It is part of the process group SNMPG-01. This is an active process. If it should go down, this is a major out-of-service alarm.
“POM-01”	Provisioning Object Manager. It is part of the process group XEG-01. It is an active process. If it should go down, it causes a major out-of-service alarm.
“PROVSAGT”	Provisioning SNMP Agent. It is part of the process group SNMPG-01. This is an active process. If it should go down, this is a major out-of-service alarm.

**Table A-34 Processes (continued)**

Process	Description
“Replic-01”	Replicator controller. It is part of the process group ENGG-01. It is an active process. If it should go down, it causes a critical out-of-service alarm.
“TCAP-01”	TCAP and SCCP protocol handler. It is part of the process group IOSG-01. It is a passive process. If it should go down, it causes a major out-of-service alarm.

## Properties

Properties are configurable entities within the MGC system. These entities can be equipment, circuits, protocols, or software.

Properties take the following syntax:

*PropertyName = PropertyValue*

PropertyName can be designated either by \*.propertyName or by protocolFamily.propertyName (for example, SS7-ANSI.mtp2Timer).

In a provisioning session, those properties with the protocolFamily prefix may be overridden by a linkSet component. The overridden property is then written to properties.dat as:

LinkSetMMLName.propertyName.

Those default properties prefixed by an “\*” may be overridden by a signalPath (or Service) component that is defined in sigPath.dat. The overridden property will be written to properties.dat as SigPathMMLName.propertyName.

[Table A-35](#) contains an alphabetical listing of MGC properties.

**Table A-35 Properties**

Property	Definition
*.ACCRespCntlInhibit	Turns on or off Automatic Congestion Control control procedures based on the Automatic Congestion Level value received by the MGC from a linked switch. Values are 0 or 1, where 0 means Off and 1 On  Default: 0
*.ACLDur	Specifies the duration in seconds that the Automatic Congestion Level is in effect when the MGC receives an ACL indication from a linked switch. Values are integers greater than zero.  Default: 5
*.adjDestinations	Number of adjacent destination point codes. Value range: 1 through 256.  Default: 16

Table A-35 Properties (continued)

Property	Definition
*.AlarmCarrier	Indicates the method of alarm carrier so that circuit validation tests may be fully compliant with ANSI T1.113. Values are: 0 = unknown (default) 1 = software carrier 2 = hardware carrier
*.AOCEnabled	Determines if Advice of Charge handling would be applied to a call. Values: 0 = AOC is not enabled 1 = AOC is enabled Default: 0 (not enabled).
*.AOCNodeID	This property is included in the Advice of Charge message to identify the node in the network that is activating the AOC service to this call. The subfiles (x/y/z) are limited to the range 0 to 2 <sup>14</sup> -1 Values: 0 to 16383 – 0 to 16383 – 0 to 16383 Default: 0 to 0 to 0
*.AuditWhenSscIs	Specifies if VSC (the engine) will perform an audit on the endpoints of the gateway associated with this cxnSigPath when the VSC receives an In Service (IS) Service State Change (SSC) message. For smaller gateways (AS5300) set value = True, the audit is performed when the connection becomes available; for larger gateways (MGX8260, VISM) set value = False. This property value is dynamically editable using MML commands. Valid range: TRUE (1) or FALSE (0). Default: False
*.BcInitState	The initial status the MGC places its nailed up bearer channels following application restart. The MGW can override this status with GSM messages. Default: IS
*.BOrigStartIndex	The starting number analysis digit index for call originations. Value range: 0 or 1. Default: 1
*.BothwayWorking	Specifies if bothway release / circuit-free handling for BTNUP protocol is enabled. Set to 0 to disable. Value range: 0 or 1. Default: 1
*.BTermStartIndex	The starting number analysis digit index for call terminations. Value range: 0 or 2. Default: 2

Table A-35 Properties (continued)

Property	Definition
*.CallCutoffTimer	The cutoff timer for a call termination. Value range: 0 (timer disabled) through 48, in 1-hour intervals. Default: 0
*.CarrierIdentity	Indicates the carrier ID to which users on this trunk group are associated. Value range: 0 (if not defined) or 1 through 9999. Default: 0
*.CarrierInfoTransfer	This property is mandatory for Japan ISUP and it has to be changed for a different area. This property allows changing Carrier Information Transfer for different location. Default: 00FC05FE03000210
*.CarrierInfoTransferBackward	Japan ISUP; mandatory in ACM and ANM. If it is not present, it is generated using the default value. Default: 00FC05FE03000231
*.CarrierInfoTransferForward	Japan ISUP; mandatory in IAM. If it is not present, it is generated using the default value. Default: 00FB05FE03000231
*.CarrierScreening	Determines if carrier screening and selection is to be applied on this call (using the carrier translation table). Values: 0 = Do not apply 1 = Apply carrier selection Default: 0 (do not apply)
*.CctGrpCarrier	Indicates the method of circuit group carrier so that circuit validation tests may be fully compliant with ANSI T1.113. Values are: 0 = unknown 1 = analog 2 = digital (default) 3 = digital & analog
*.CGBA2	Determines if group (0) or individual (1) circuit group blocking acknowledgments (CGBAs) are required before the blocking is considered successful. Only applicable to ANSI SS7, IBN7, and CTUP protocols. Value range: 0 or 1. (Only available in software Release 7.4(12) and later.) <b>Note</b> When set to 1, a significant performance impact occurs for individual circuit supervision messages during maintenance or during a failure condition. Default: 0

Table A-35 Properties (continued)

Property	Definition
*.ChargeAreaInformation	This property is mandatory for Japan ISUP and it has to be changed for different areas. It allows changing charge area information for different locations. Default: 010203
*.CircHopCount	Set a maximum value for the number of contiguous SS7 interchange circuits remaining before a call must be completed. Value range: 0 to 31, with 0 = disabled. Default: 0
*.CLIDefaultAllowed	If set to TRUE then it adjusts the presentation restricted field in the CLI to Presentation Allowed; if FALSE then it takes the mapped value from the OCC or TCC protocol side or the default value from the Map for this field if there is no received value from the other protocol side. Value range: TRUE or FALSE Default: FALSE
*.CLIPEss	Set to 1 to force request of calling line identity (CLI) if not automatically provided. Value range: 0 or 1. Default: 0
*.CLISelect	UK variant only. This is used to determine the presentation number. Default: CLI
*.CLLI	Specifies the common language location identifier (CLLI). Default: NULL
*.COLDefaultAllowed	If set to TRUE then it adjusts the presentation restricted field in the connected line Id to Presentation Allowed; if FALSE then it takes the mapped value from the OCC or TCC protocol side or the default value from the Map for this field if there is no received value from the other protocol side. Value range: TRUE or FALSE Default: false
*.CompressionType	Compression type. Indicates the G.711 compression type used on the trunk. Values are: 0 (none), 1 (mu-law), or 2 (A-law). Default: 1
*.CotInTone	Receive tone for continuity test (COT) hardware. The tone to listen for when doing a COT. Enter value in Hz. Value: 1780 or 2010. Default: 2010
*.CotOutTone	Transmit tone for COT hardware. The tone that is produced. Enter value in Hz. Value: 1780 or 2010. Default: 2010

Table A-35 Properties (continued)

Property	Definition
*.CotPercentage	Statistical COT. Value range: 0 through 100%. Default: 0
*.CustGrpId	ID of customer associated with a particular trunk group (previously called VNET ID). Maps to trunk group property CustGrpId. Values are any alphanumeric with length of 4 or 0 if not defined. Default: 0000
*.DatabaseAccessError	Determines the action to take (with regard to call processing) if access to MMDB fails. Values are: 0 (continue) or 1 (reject call). Default: 0
*.Defresultset	Defines a default result set to be used when a digit string is not configured in the B digit tree.
*.delayTimer	Set a delay timer from TIOS to Engine when ISDN sigpath has changed service state so the Engine will not be affected by a “bouncing” link.  This is supported for ISDN Q.931/Q.921/RLM and ISDN Backhaul (Corsair) protocols only. Default: 30
*.DetectFaxModemTone	Detect Fax Modem Tone. Used for MGCP connection protocol. Values are: 0 (no tone detection notification) or 1 (request fax or modem tone detection from the MGW). Default: 1
*.dialogRange	TCAP transaction ID range (for example, 1 through 10000) for a specific subsystem. 0 = entire range. Default: 0
*.EchoCanRequired	Indicates if echo cancellation is required. Values are: 0 (not required) or 1 (required). Default: 0
*.ExtCOT	Determines the type of COT handling for the specified destination. Values: 0 to no COT, loop, or transponder. Default: Loop

Table A-35 Properties (continued)

Property	Definition
*.FastConnect	<p>Allows the user to set this property for NI-2+ only (PRI BELL1268 customer 3, CISCO MGW).</p> <p>The purpose of this property is to allow/disallow the signal being sent to LCM when a CALL PROCEEDING, a PROGRESS and an ALERTING message is received from the MGW.</p> <p>0 = Normal behavior, enable all signals to LCM.</p> <p>1 = Disable signals to LCM when a Call proceeding message is received from the MGW.</p> <p>2 = Disable signals to LCM when a Call Proceeding or a Progress message are received from the MGW.</p> <p>3 = Disable signals to LCM when a Call Proceeding or a Progress or an Alerting message is received from the MGW.</p> <p>Default: 0</p>
*.ForwardCLinIAM	<p>Set to 1 if outgoing IAM should contain the Calling Line Identity, if available. Only applicable for BTNUP when interworking from other protocols. Value range: 0 or 1.</p> <p>Default: 0</p>
*.ForwardSegmentedNEED	<p>Set to 0 to disable the forwarding of segmented NEED messages within the BTNUP_NRC protocol. If segmenting is disabled, all mandatory DPNSS information elements will be packed into a single BTNUP NEED message. Value range: 0 or 1.</p> <p>Default: 1</p>
*.GatewayName	<p>Used to identify the Gateway in the CDR record, that is whatever this value is set to will be placed in the CDR.</p> <p>Default: N/A</p>

Table A-35 Properties (continued)

Property	Definition
*.GLARE	<p>Call Collision Handling. Valid values are:</p> <ul style="list-style-type: none"> <li>• 0 = No glare handling; also known as yield to all double seizures. Call collision results in a REL sent to both calls.</li> </ul> <p><b>Note</b> Both ends of a link can be given this option. Default = 0.</p> <ul style="list-style-type: none"> <li>• 1 = The MGC has control of all circuits and any call collisions are handled by this MGC. It ignores incoming IAMs and proceeds with its own calls as normal.</li> </ul> <p><b>Note</b> Only one end of a link can be designated with this option.</p> <ul style="list-style-type: none"> <li>• 2 = Highest point code controls the even circuits. Depending on the OPC of the MGCs, the side that has the higher point code will control the even circuits, while the side with the lower point code will control the odd circuits.</li> </ul> <p><b>Note</b> Both ends of a link can be given this option.</p> <ul style="list-style-type: none"> <li>• 3 = No control. The MGC specified with this option does not control any circuits. The MGC accepts incoming IAMs from the side with control.</li> </ul> <p><b>Note</b> This option is usually used along with the remote node designated with control.</p>
*.GRA2	<p>Determines if paired (0) or single (1) group reset acknowledgments (GRAs) are required before the reset is considered successful. Only applicable to ANSI SS7, IBN7, and CTUP protocols. Value range: 0 or 1.</p> <p>Default: 0</p>
*.GRSEnabled	<p>This property is assigned to an SS7 point code type signal path. Enables Group Reset and Blocking procedure at point code initialization. Synchronizes the MGC bearer channel blocking state with that of the end office.</p> <p>If True, GRS messages are sent for all CICs associated with the point code. If False, GRS messages are not sent.</p> <p>Default: true</p>



Table A-35 Properties (continued)

Property	Definition
*.GWDefaultCodecString	<p>Enables the IOCC-MGCP to send the ordered series of codec choices separated by semicolons. Refer to the media gateway documentation for the list of valid codec values.</p> <p>Values: NULL, G711_U, G711_A, G726_32K, G726_24K, G711_U, G711_A, G726_32K, G726_24K, G726_16K, G729, G729_A, G729_B, G729_B_LOW_COMPLEXITY, G7231_HIGH_RATE, G7231_LOW_RATE, G7231_A_LOW_RATE, GSM_FULL_RATE, GSM_HALF_RATE, GSM_ENHANCED_FULL_RATE</p> <p>Default: Null</p>
*.GWProtocolVersion	<p>The MGCP protocol version to use when communicating with the gateway.</p> <p>Default: MGCP 0.1</p>
*.InitEndpointsAsEnabled	<p>Specifies if VSC (the engine) will initialize its endpoint objects (corresponding to those on the gateway) as enabled or disabled. For gateways that send RSIP messages at initialization to inform VSC of their endpoint state, set to False; all others set to True. This property value is dynamically editable using MML commands.</p> <p>Values: TRUE (1) or FALSE (0)</p> <p>Default: True</p>
*.InternationalPrefix	<p>International prefix string to be added to the international dialed number when normalization is enabled. Value range: a numeric string.</p> <p>Default: 0</p>
*.IsupTransparencyDisabled	<p>Permits disabling of the ISUP Transparency feature for a particular trunk group.</p> <p>Values:</p> <ul style="list-style-type: none"> <li>• 1 = True, ISUP Transparency feature is disabled</li> <li>• 0 = False, ISUP Transparency feature is enabled</li> </ul> <p>Default: 0</p>
*.lapdDropErr	<p>Boolean to determine if some LAPD sequence errors are discarded. This is used in large IP networks where the latency may cause LAPD sequence errors. According to Q.921, this will cause the link layer to reset. This parameter allows sequence errors to be discarded without resetting the link. Valid value range is true/false.</p> <p>Default: false.</p>
*.lapdKval	<p>Number of outstanding frames in Q.921 transmission window. Valid range is 1 to 127.</p> <p>Default: 7</p>

Table A-35 Properties (continued)

Property	Definition
*.lapdN200	<p>Maximum number of retransmissions of a Q.921 frame. Valid range is 0 to 10.</p> <p>Default: 3</p> <p><b>Note</b> When using a Cisco AS5800 Series Access Server in conjunction with an SC2200, you can decrease your chances of experiencing a timeout-related connection failure by setting this value to 6, rather than accepting the default value of 3. Setting the *.lapdN200 variable to 6 may also prove useful when transmitting and receiving data via a connectionless protocol like UDP.</p>
*.lapdN201	<p>Maximum number of octets in a Q.921 frame.</p> <p>Default: 260</p>
*.lapdT200	<p>Maximum wait time for a LAPD frame acknowledgement before retransmission. Valid range is 10 to 60 in 1/10 sec.</p> <p>Default: 10</p>
*.lapdT203	<p>Maximum time the Q.921 link is idle before sending a frame. Valid range is 50 to 600 in 1/10 sec.</p> <p>Default: 500</p>
*.layerRetries	<p>Maximum number of retransmissions for TCAP/SCCP queries. Value range: 0 through 5. 0 = No retries.</p> <p>Default: 2</p>
*.layerTimer	<p>Time (in tenths of a second) to wait for a response from adjacent layer (SS7 controller, TCAP to SCCP); tailor when layers are not resident on same processor. Value range: 0 through 10. 0 = Disabled, 10 = 1 second.</p> <p>Default: 10</p>
*.LocationNumber	<p>The default outgoing number used if a location number is not present in an incoming call. (This is used in protocols Q761 and Q767.)</p> <p>Default: 0</p>

Table A-35 Properties (continued)

Property	Definition																									
*.MaxACL	<p>Indicates the MGC congestion level (if greater than zero) in the ISUP release message using the ACL parameter. The purpose of this parameter is to map between the MGC congestion levels and the destination switch congestion levels. This mapping is as follows:</p> <table border="1"> <thead> <tr> <th>Max ACL configuration value</th> <th>Current Machine Congestion Level</th> <th>ACL Value in Release Message</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0, 1, 2, 3</td> <td>Not Present</td> </tr> <tr> <td rowspan="4">2</td> <td>0</td> <td>Not Present</td> </tr> <tr> <td>1</td> <td>1</td> </tr> <tr> <td>2</td> <td>2</td> </tr> <tr> <td>3</td> <td>2</td> </tr> <tr> <td rowspan="3">3</td> <td>0</td> <td>Not Present</td> </tr> <tr> <td>1</td> <td>1</td> </tr> <tr> <td>2</td> <td>2</td> </tr> <tr> <td></td> <td>3</td> <td>3</td> </tr> </tbody> </table> <p>Valid values: 0, 2, 3. Default: 3</p>	Max ACL configuration value	Current Machine Congestion Level	ACL Value in Release Message	0	0, 1, 2, 3	Not Present	2	0	Not Present	1	1	2	2	3	2	3	0	Not Present	1	1	2	2		3	3
Max ACL configuration value	Current Machine Congestion Level	ACL Value in Release Message																								
0	0, 1, 2, 3	Not Present																								
2	0	Not Present																								
	1	1																								
	2	2																								
	3	2																								
3	0	Not Present																								
	1	1																								
	2	2																								
	3	3																								
*.maxMessageLength	<p>Maximum length of message to MTP3. This value must be less than the value for mtp2MaxMsuFrmLen. Value range: 0 through 272. Default: 250</p>																									
*.MgcpBehavior	<p>Regulates VSC engine behavior to allow different MGCP gateway types to return different codes for the same error. Value range: 0 through 3.</p> <ul style="list-style-type: none"> <li>0—No action</li> <li>1—Prevents the VSC from reusing a circuit after a CRCX failure (return code 501); VISM and MX8260</li> <li>2—Prevents the VSC from reusing a circuit after a CRCX failure (return code 502); 5300</li> </ul> <p>Default: 0</p> <p><b>Note</b> Additional differences can be handled by adding enumerated values.</p>																									
*.mgcpDomainNameRemote	<p>Default MGCP remote domain name. It is used to append to audit command to send to remote gateway. Default: remote@name.net</p>																									
*.mgcpGWStdbyHeartbeatInterval	<p>This interval time in seconds enables the IOCC-MGCP to send the standby heartbeat to complete a health check on remote GW. Value range: 0 to 30 seconds. Default value: 30 seconds</p>																									

Table A-35 Properties (continued)

Property	Definition
*.mgcpHeartbeatInterval	How often the MGCP protocol should heartbeat the gateway. Value range: 0 through 1000. Default: 10 <b>Note</b> To prevent MGCP IP links from flapping, set this to a minimum value of 4 when the Cisco PGW 2200 call agent is working with a Cisco MGX-8260.
*.mgcpRetxCOUNT	A limit on the number of retransmissions before declaring failure. (MGCP protocol.) Value range: 0 through 10. Default: 3
*.mgcpLocalIpInterfacePollCount	This poll count defines the number of attempts to be performed to reach the remote GW using each configured local IP interface. Value range: any positive value. Default value: 6
*.mgcpRemoteIpPollCount	This poll count defines the number of retry audit messages to be sent to remote GW. Value range: any positive value Default Value = 3
*.mgcpRetxTimer	A limit on the time to wait for a response from a gateway before retransmitting the message. (MGCP protocol.) Value range: 0 through 60,000. Default: 1000 <b>Note</b> To prevent possible hung calls on a MGW, the recommended value is 4000.
*.NationalPrefix	National prefix string to be added to the national dialed number when normalization is enabled. Default: 0
*.NatureOfAddrHandling	Determines whether or not to do preanalysis. Value range: 0 or 1. Default: 0
*.Normalization	Normalization of dialed number to unknown. Set to 0 for disabled and 1 for enabled. Value range: 0 or 1. Default: 0
*.NotifySetupComplete	Used to notify asynchronous notification task. When set to true, Tag 8 (requested events) with value 4 is sent to the engine. MDL then waits for both chanSeized and chanNotify on the terminating side before sending chanSeizeAck to LCM. Value range: 1 (TRUE) or 0 (FALSE). Default: 0

Table A-35 Properties (continued)

Property	Definition
*.Npa	Numbering plan area. Indicates the NPA code associated with the incoming trunk group. Value range: 0 (none), or 200 through 999. Default: 0
*.OMaxDigits	Specifies maximum number of digits to receive for overlap digit processing for call origination from this traffic path. Value range: 0 through system maximum. Default: 24
*.OMinDigits	Specifies minimum number of digits to receive for overlap digit processing for call origination from this traffic path. Value range: 0 through system maximum. Default: 0
*.OrigCarrierId	Supplies the CarrierId digit string for a trunk group that can then be referenced against any CarrierID received in the incoming message. This is used to support the carrier screening capability, as handled in the protocol. Valid values: Up to five digits. Default: 00
*.OOverlap	Set to 1 to enable overlap signaling for call origination from this traffic path. Value range: 0 through system maximum. Default: 0
*.OverlapDigitTime	Overlap interdigit timer. The time to wait for the rest of the digits. Value range: 0 through 60. Default: 6
*.OwnClli	Specifies the common language location identifier (CLLI). Default: na
*.PropagateSvcMsgBlock	If true, protocols supporting group blocking send individual blocking messages. If false, protocols supporting group blocking continue to send group blocking messages. Default: false

Table A-35 Properties (continued)

Property	Definition										
*.ReleaseMode	<p>Defines the type of releasing. Asynchronous clearing allows both OCC and TCC sides to clear independently; circuits are freed earlier in the release sequence. Synchronous clearing requires that the clearing at the two sides is synchronized.</p> <p>Normally, nailed-up configurations use synchronous clearing and VSC configurations use asynchronous clearing.</p> <p><b>Note</b> There may be times when synchronous clearing is more appropriate for a VSC configuration, for example, when supplementary service signaling contained in clearing messages requires transporting between the two sides.</p> <p>Valid values: Async or Sync.</p> <p>Default: Async (for Release 7.4(11) and earlier) Sync (for Release 7.4(12) and later)</p>										
*.RedirMax	<p>Specifies the maximum allowable value of the redirection counter parameter available in some C7 signaling systems before the call is force-released. Used to prevent routing loops in certain applications. Value range: 0 through system maximum.</p> <p>Default: 3</p>										
*.restartTimer	<p>Time (in tenths of a second) to pause before sending next group of messages to MTP3 after restart. Value range: 0 through 100. 0 = Disabled, 10 = 1 second.</p> <p>Default: 10</p>										
*.RingNoAnswer	<p>Ring no answer. Indicates the time, in seconds, ringing is allowed to occur. Value range: 0 through 255, which is converted to milliseconds</p> <p>Default: 255000</p>										
*.RouteId	<p>This property is needed so that the user/customer can specify a route id to overwrite the id received in the RIN parameter in the IAM from the OCC side. Value range: 0 through 65355.</p> <p>Default: 0</p>										
*.RoutePref	<p>Determines the preferred route. Value range: 0 through 9.</p> <table border="0"> <tr> <td>0 = No Preference (default)</td> <td>5 = IP Preferred</td> </tr> <tr> <td>1 = ATM Essential</td> <td>6 = IP Excluded</td> </tr> <tr> <td>2 = ATM Preferred</td> <td>7 = TDM Essential</td> </tr> <tr> <td>3 = ATM Excluded</td> <td>8 = TDM Preferred</td> </tr> <tr> <td>4 = IP Essential</td> <td>9 = TDM Excluded</td> </tr> </table> <p>Default: 0</p>	0 = No Preference (default)	5 = IP Preferred	1 = ATM Essential	6 = IP Excluded	2 = ATM Preferred	7 = TDM Essential	3 = ATM Excluded	8 = TDM Preferred	4 = IP Essential	9 = TDM Excluded
0 = No Preference (default)	5 = IP Preferred										
1 = ATM Essential	6 = IP Excluded										
2 = ATM Preferred	7 = TDM Essential										
3 = ATM Excluded	8 = TDM Preferred										
4 = IP Essential	9 = TDM Excluded										

Table A-35 Properties (continued)

Property	Definition
*.rudpNumRetx	The maximum number of retransmissions count. Value range: 1 through 100. Default: 2
*.rudpRetxTimer	The retransmission timeout. Value range: 2 through 100. Default: 6
*.rudpWindowSz	The maximum number of Unacknowledged Segments in the RUDP window. Value range: 2 through 64 Default: 32
*.SatelliteInd	Satellite indicator. Indicates if the trunk is going over a satellite. Values are: 0 (no) (default) or 1 (yes). Default: 0
*.ScreenFailAction	Screen fail action. Indicates if an action is to be performed when a screening failure occurs. Value: 0 (no) or 1 (reject call). Default: 0
*.sendAfterRestart	Number of queued messages to send (in one group) to MTP3 after restart end. This value, combined with the sendTimer, controls the amount of data sent to MTP3 after restart ends. If too much data is sent to MTP3 after restart, MTP3 could be flooded. Value range: 0 through 256. Default: 16
*.sgcpRetxCount	Number of times an SGCP msg is retried upon failure. Value range: 1 to 4 Default: 2
*.sgcpRetxTimer	Timer interval (milliseconds) between invocations of the SGCP retry timer. Value range: 0 to 3000 Default: 1000
*.slsTimer	Time (in tenths of a second) to maintain the same signal linkset in class 1 (connectionless) messages. This is the type of service provided by the SCCP layer. Value range: 0 through 600. 0 = Disabled, 300 = 30 seconds. Default: 300
*.spanId	E1/T1 ID for FAS and DPNSS, ffff for SS7. Value range: Hex 0 through ffff. Default: ffff
*.srpcAuditGwInterval	How often the SRCP protocol should perform a GW audit on the gateway. Value range: 0 through 1000 seconds. Default: 10

Table A-35 Properties (continued)

Property	Definition
*.srcpAuditLineInterval	How often the SRCP protocol should perform a line audit on the gateway. Value range: 0 through 1000 seconds. Default: 10
*.srcpHeartbeatInterval	How often the SRCP protocol should heartbeat the gateway. Value range: 0 to 1000 seconds. Default: 10
*.srcpIpPortLocal	Local IP port to which the SRCP protocol should bind to receive messages from the gateway. Setting this value to zero turns off srcp. Default: 0
*.srcpIpPortRemote	Remote IP port to which the SRCP protocol should send messages to. Default: 2428
*.srcpRemoteAuditGwInterval	How often the SRCP protocol should perform an audit on remote gateway. Value range: 0 through 1000 seconds Default value: 10
*.srcpRetxCOUNT	A limit on the number of retransmissions before declaring failure. Value range: 0 through 10. Default: 3
*.srcpRetxTimer	A limit on the time to wait for a response from a gateway before retransmitting the message. Value range: 0 through 60000 milliseconds. Default: 1000
*.srtTimer	Time (in tenths of a second) between sending Subsystem Route Test message (SRT) to remote subsystems. Value range: 0 through 3000. 0 = disabled, 300 = 30 seconds. Default: 300
*.sstTimer	Time (in tenths of a second) between sending Subsystem Route Test message (SRT) to remote subsystems. Value range: 0 through 3000. 0 = disabled, 300 = 30 seconds. Default: 300
*.standard	Version of protocol standard supported for this STP/SCP. Defaults: SS7-ANSI = ANSI96, SS7-ITU = ITU96, ANSI96, ITU96, ANSI92, ITU92
*.SuppressCLIDigits	Suppresses the calling party number Default: 0 (do not suppress)



Table A-35 Properties (continued)

Property	Definition
*.SwitchID	The switch number for the MGC. Default: 0
*.T309Time	For timer NT309. In pri_10.mdl. Default: 90000 milliseconds
*.TCAPOverIPKpAlive	Used to indicate whether or not to use Keep Alive messages. Value range: TRUE or FALSE. Default: FALSE
*.TCAPOverIPKpOpcod	Used to indicate the value of the Op code in the Keep Alive messages for ITU TCAP. Default: 55
*.TCAPOverIPKpTimer	Used to indicate the value of the Keep Alive if Keep Alive is enabled. Default: 250
*.TCAPOverIPTcpConn	Used to indicate whether or not to establish a TCP connection. Value range: TRUE or FALSE. Default: FALSE
*.TlinkAlignTime	Configurable timer for all Q.761, Q.767, and ANSI protocols. (For Release 7.4(11) and above.) Value range: 0 (disables the timer) to <i>n</i> (in milliseconds). Default: 0
*.TMaxDigits	Specifies maximum number of digits to receive for overlap digit processing for call termination to this traffic path. Value range: 0 through system maximum. Default: 24
*.TMinDigits	Specifies minimum number of digits to receive for overlap digit processing for call termination to this traffic path. Value range: 0 through system maximum. Default: 0
*.TOverlap	Set to 1 to enable overlap signaling for call termination to this traffic path. Value range: 0 or 1. Default: 0
*.TrunkGuardTime	Number of milliseconds to wait before reusing a trunk after it has been released. Trunk circuit selection skips any trunks that have not been idle for the requisite time period (treats them as 'busy'). If all idle trunks are unavailable due to the guard timer, mdl reselects the next route in the route list (if suitably configured). Valid range: 0 to 1000ms. Default: 50
*.variant	SS7 protocol variants supported by local subsystem. Default: SS7-ANSI

Table A-35 Properties (continued)

Property	Definition
*.VOIPPrefix	A numeric string. Default: 0
*.VSCSipVersion	Any valid SIP version. Default: SIP/2.0
IOCC.chkPtPort	IP port number used to checkpoint events to standby MGC. Valid range is 1025 to 65535. This cannot conflict with other IP port assignments. Default: 0
IOCC.port	IP port number used to send and receive events. This is generally overridden by a protocol (for example, RLM). Valid value range is 1025 to 65535. This cannot conflict with other IP port assignments. Default: 3000
RLM.linkUpRecoveredMin	Minimum time to stabilize the newly recovered link before switching back. Valid range is 300 to 1200 in 1/10 sec. Default: 600
RLM.port	IP port number used to receive RLM messages. Valid value range is 1025 to 65535. This cannot conflict with other IP port assignments. Default: 3000
RLM.timerCmdAck	Retransmission timer for each RLM request message before message is acknowledged range: 10 to 150 in 1/10 sec. Default: 10 <b>Note</b> There can be only one outstanding RLM request.
RLM.timerLinkDownMin	RLM idle timer—minimum time to detect and force down state. range: 50 to 600 in 1/10 sec. Default: 100
RLM.timerLinkEcho	Keepalive timeout for checking RLM link integrity. Value range: 10 to 30 in 1/10 sec. Default: 10
RLM.unstableLink	Maximum number of link recoveries within a 10 minute period before alarming the path to the destination as unstable. Value range: 1 to 100. Default: 10
SS7-ANSI.mtp2AermEmgThr	Alignment error rate monitor threshold duration for normal emergency operation. Value range: 1 message. Default: 1
SS7-ANSI.mtp2AermNrmThr	Alignment error rate monitor threshold duration for normal operation. Value range: 1 to 4 messages. Default: 4

Table A-35 Properties (continued)

Property	Definition
SS7-ANSI.mtp2CongDiscard	Discard frames upon entering congestion at MTP2. Set to true or false. Default: false
SS7-ANSI.mtp2LssuLen	Link status signal unit, status field length. Values: 1 or 2. Default: 1
SS7-ANSI.mtp2MaxAlignRetries	Maximum number of attempts to align link before declaring it out-of-service (OOS). Value range: 1 through 10 attempts. Default: 5 <b>Note</b> The MGC also reattempts link alignment every 5 seconds.
SS7-ANSI.mtp2MaxMsuFrmLen	Maximum frame length of a C7 message signal unit. Specify 62 or 272. Default: 272
SS7-ANSI.mtp2MaxOutsFrames	The maximum outstanding frames that can be sent without receiving acknowledgment. Value range: 1 to 127. Default: 127
SS7-ANSI.mtp2ProvingEmgT4	Emergency proving period. Value range: 5 through 7 tenths of a second. Default: 6
SS7-ANSI.mtp2ProvingNormalT4	Normal proving period. Value range: 1 through 3 seconds. Default: 23
SS7-ANSI.mtp2SuermThr	Signal unit error rate monitor threshold for emergency operation. Value range: 1 through 127. Default: 64
SS7-ANSI.mtp2T1	Maximum period in aligned/ready state before return to out-of-service state. Value range: 12 to 16 seconds. (Values are in tenths of a second.) Default: 130
SS7-ANSI.mtp2T2	Maximum period in not aligned state before return to out of service state. Value range: 5 to 30 seconds. (Values are in tenths of a second.) Default: 115
SS7-ANSI.mtp2T3	Maximum period in aligned state before return to out-of-service state. Value range: 5 to 14 seconds. (Values are in tenths of a second.) Default: 115
SS7-ANSI.mtp2T5	Period for sending a SIB message to far-end. Value range: 80 to 120 seconds. (Values are in thousandths of a second.) Default: 1

Table A-35 Properties (continued)

Property	Definition
SS7-ANSI.mtp2T6	Remote congestion timer. If congestion is not cleared before expiration of this timer, the link fails. Value range: 1 to 6 seconds. (Values are in tenths of a second.) Default: 30
SS7-ANSI.mtp2T7	MTP2 acknowledgment timer. On expiration, the link fails and an “excessive delay of acknowledgment” management message is generated. Value range: 0.5 to 2 seconds. (Values are in tenths of a second.) Default: 10
SS7-ANSI.mtp3ApcMtpRstrT28	Overall restart timer for signaling point adjacent to one whose MTP restarts. Value range: 3 to 35 seconds. (Values are in tenths of a second.) Default: 10
SS7-ANSI.mtp3DlnkConnAckT7	Waiting for signaling data link connection acknowledgment. Value range: 1 to 5 seconds. (Values are in tenths of a second.) Default: 10
SS7-ANSI.mtp3FrcUnhT13	Waiting for force uninhibited. Value range: 0.8 through 1.5 seconds. (Values are in tenths of a second.) Default: 10
SS7-ANSI.mtp3InhAckT14	Waiting for inhibit acknowledgment. Value range: 2 to 3 seconds (Values are in tenths of a second.) Default: 20
SS7-ANSI.mtp3LocInhTstT20	Waiting to repeat local inhibit test. Value range: 90 to 120 seconds (Values are in tenths of a second.) Default: 900
SS7-ANSI.mtp3MaxSlTries	Maximum number of retries of signaling link test message. If MTP3 does not receive a response after two signaling link test messages, the system fails the link. Value range: 1 to 5. Default: 2
SS7-ANSI.mtp3MsgPriority	Message priority of management messages for congestion periods. Value range: 0 to 3. Priority 1 (default) indicates that there are no congestion priorities. Priorities greater than 1 indicate multiple congestion priorities. Priority 3 is the highest priority. Default: 2
SS7-ANSI.mtp3MtpRstrT24	Overall MTP restart timer for local MTP restart. Value range is network dependent. (Values are in tenths of a second.) Default: 60

Table A-35 Properties (continued)

Property	Definition
SS7-ANSI.mtp3RepeatRstrT26	Traffic restart waiting message at local MTP restart. Value range: 12 to 15 seconds. (Values are in tenths of a second.) Default: 150
SS7-ANSI.mtp3TfrUsed	Transfer restricted procedure is enabled (true) or disabled (false). Set to true or false. Default: false
SS7-ANSI.mtp3TraSntT29	Timer started when traffic restart allowed is sent in response to unexpected traffic restart allowed or traffic restart waiting. Value range: 0 to 65 seconds. (Values are in tenths of a second.) Default: 600
SS7-ANSI.mtp3tstSlmT1	Waiting for signaling link test acknowledgment message. This must be greater than the value in mtp2T6. Value range: 4 to 12 seconds. Default: 60
SS7-ANSI.mtp3tstSlmT2	Interval for sending signaling link test message. Value range: 30 to 90 seconds. (Values are in tenths of a second.) Default: 600
SS7-ANSI.mtp3UnhAckT12	Waiting for uninhibited acknowledgment. Value range: 0.8 through 1.5 seconds. (Values are in tenths of a second.) Default: 10
SS7-ANSI.reference	Denotes version of protocol standard supported for MTP. Default: ANSI92
SS7-China.mtp2AermEmgThr	Alignment error rate monitor threshold duration for normal emergency operation. Value: 1 message. Default: 1
SS7-China.mtp2AermNrmThr	Alignment error rate monitor threshold duration for normal operation. range: 1 to 4 messages. Default: 4
SS7-China.mtp2CongDiscard	Discard frames upon entering congestion at MTP2. Set to true or false. Default: false
SS7-China.mtp2LssuLen	Link status signal unit, status field length. Valid range: 1 or 2. Default: 1
SS7-China.mtp2MaxAlignRetries	Maximum number of attempts to align link before declaring it out-of-service (OOS). Value range: 1 through 10 attempts. Default: 5 <b>Note</b> The MGC also reattempts link alignment every 5 seconds.

Table A-35 Properties (continued)

Property	Definition
SS7-China.mtp2MaxMsuFrmLen	Maximum frame length of a C7 message signal unit. Specify 62 or 272. Default: 272
SS7-China.mtp2MaxOutsFrames	The maximum outstanding frames that can be sent without receiving acknowledgment. Value range: 1 to 127. Default: 127
SS7-China.mtp2ProvingEmgT4	Emergency proving period. Value range: 5 through 7 tenths of a second. Default: 6
SS7-China.mtp2ProvingNormalT4	Normal proving period. Value range: 1 through 3 seconds. Default: 23
SS7-China.mtp2SuermThr	Signal unit error rate monitor threshold for emergency operation. Value range: 1 through 127. Default: 64
SS7-China.mtp2T1	Maximum period in aligned/ready state before return to out-of-service state. Value range: 12 to 16 seconds. (Values are in tenths of a second.) Default: 450
SS7-China.mtp2T2	Maximum period in not aligned state before return to out of service state. Value range: 5 to 30 seconds. (Values are in tenths of a second.) Default: 250
SS7-China.mtp2T3	Maximum period in aligned state before return to out-of-service state. Value range: 5 to 14 seconds. (Values are in tenths of a second.) Default: 20
SS7-China.mtp2T5	Period for sending a SIB message to far-end. Value range: 80 to 120 seconds. (Values are in thousands of a second.) Default: 1
SS7-China.mtp2T6	Remote congestion timer. If congestion is not cleared before expiration of this timer, the link fails. Value range: 1 to 6 seconds. (Values are in tenths of a second.) Default: 60
SS7-China.mtp2T7	MTP2 acknowledgment timer. On expiration, the link fails and an “excessive delay of acknowledgment” management message is generated. Value range: 0.5 to 2 seconds. (Values are in tenths of a second.) Default: 10

Table A-35 Properties (continued)

Property	Definition
SS7-China.mtp3ApcMtpRstrT21	Overall MTP restart timer at an SP adjacent to an SP whose MTP restarts. Value range: 63 to 65 seconds. (Values are in tenths of a second.) Default: 10
SS7-China.mtp3DlnkConnAckT7	Waiting for signaling data link connection acknowledgment. Value range: 1 to 5 seconds. (Values are in tenths of a second.) Default: 10
SS7-China.mtp3FrcUnhT13	Waiting for force uninhibited. Value range: 0.8 through 1.5 seconds. (Values are in tenths of a second.) Default: 10
SS7-China.mtp3InhAckT14	Waiting for inhibit acknowledgment. Value range: 2 to 3 seconds (Values are in tenths of a second.) Default: 20
SS7-China.mtp3LocInhTstT22	Waiting to repeat local inhibit test. Value range: 3 to 6 minutes. (Values are in tenths of a second.) Default: 3000
SS7-China.mtp3MaxSlTries	Maximum number of retries of signaling link test message. If MTP3 does not receive a response after two signaling link test messages, the system fails the link. Value range: 1 to 5. Default: 2
SS7-China.mtp3MsgPriority	Message priority of management messages for congestion periods. Value range: 0 to 3. Priority 1 (default) indicates without congestion priorities. Priorities greater than 1 indicate multiple congestion priorities. Priority 3 is the highest priority. Default: 2
SS7-China.mtp3MtpRstrT20	Overall MTP restart timer at the signaling point where MTP restarts. Value range: 50 to 61 seconds. (Values are in tenths of a second.) Default: 900
SS7-China.mtp3TfrUsed	Transfer restricted procedure is enabled (true) or disabled (false). Set to true or false. Default: false
SS7-China.mtp3tstSlTmT1	Waiting for signaling link test acknowledgment message. This must be greater than the value in mtp2T6. Value range: 4 to 12 seconds. Default: 60
SS7-China.mtp3tstSlTmT2	Interval for sending signaling link test message. Value range: 30 to 90 seconds. (Values are in tenths of a second.) Default: 300

Table A-35 Properties (continued)

Property	Definition
SS7-China.mtp3UnhAckT12	Waiting for uninhibited acknowledgment. Value range: 0.8 through 1.5 seconds. (Values are in tenths of a second.) Default: 10
SS7-China.reference	Denotes versions for protocol standards supported for MTP. Default: ITU92
SS7-ITU.mtp2AermEmgThr	Alignment error rate monitor threshold duration for normal emergency operation. Value: 1 message. Default: 1
SS7-ITU.mtp2AermNrmThr	Alignment error rate monitor threshold duration for normal operation. range: 1 to 4 messages. Default: 4
SS7-ITU.mtp2CongDiscard	Discard frames upon entering congestion at MTP2. Set to true or false. Default: false
SS7-ITU.mtp2LssuLen	Link status signal unit, status field length. Valid range: 1 or 2. Default: 1
SS7-ITU.mtp2MaxAlignRetries	Maximum number of attempts to align link before declaring it out-of-service (OOS). Value range: 1 through 10 attempts. Default: 5 <b>Note</b> The MGC also reattempts link alignment every 5 seconds.
SS7-ITU.mtp2MaxMsuFrmLen	Maximum frame length of a C7 message signal unit. Specify 62 or 272. Default: 272
SS7-ITU.mtp2MaxOutsFrames	The maximum outstanding frames that can be sent without receiving acknowledgment. Value range: 1 to 127. Default: 127
SS7-ITU.mtp2ProvingEmgT4	Emergency proving period. Value range: 5 through 7 tenths of a second. Default: 6
SS7-ITU.mtp2ProvingNormalT4	Normal proving period. Value range: 1 through 3 seconds. Default: 23
SS7-ITU.mtp2SuermThr	Signal unit error rate monitor threshold for emergency operation. Value range: 1 through 127. Default: 64



Table A-35 Properties (continued)

Property	Definition
SS7-ITU.mtp2T1	Maximum period in aligned/ready state before return to out-of-service state. Value range: 12 to 16 seconds. (Values are in tenths of a second.) Default: 450
SS7-ITU.mtp2T2	Maximum period in not aligned state before return to out of service state. Value range: 5 to 30 seconds. (Values are in tenths of a second.) Default: 250
SS7-ITU.mtp2T3	Maximum period in aligned state before return to out-of-service state. Value range: 5 to 14 seconds. (Values are in tenths of a second.) Default: 20
SS7-ITU.mtp2T5	Period for sending a SIB message to far-end. Value range: 80 to 120 seconds. (Values are in thousands of a second.) Default: 1
SS7-ITU.mtp2T6	Remote congestion timer. If congestion is not cleared before expiration of this timer, the link fails. Value range: 1 to 6 seconds. (Values are in tenths of a second.) Default: 60
SS7-ITU.mtp2T7	MTP2 acknowledgment timer. On expiration, the link fails and an “excessive delay of acknowledgment” management message is generated. Value range: 0.5 to 2 seconds. (Values are in tenths of a second.) Default: 10
SS7-ITU.mtp3ApcMtpRstrT21	Overall MTP restart timer at an SP adjacent to an SP whose MTP restarts. Value range: 63 to 65 seconds. (Values are in tenths of a second.) Default: 10
SS7-ITU.mtp3DlnkConnAckT7	Waiting for signaling data link connection acknowledgment. Value range: 1 to 5 seconds. (Values are in tenths of a second.) Default: 10
SS7-ITU.mtp3FrcUnhT13	Waiting for force uninhibited. Value range: 0.8 through 1.5 seconds. (Values are in tenths of a second.) Default: 10
SS7-ITU.mtp3InhAckT14	Waiting for inhibit acknowledgment. Value range: 2 to 3 seconds (Values are in tenths of a second.) Default: 20
SS7-ITU.mtp3LocInhTstT22	Waiting to repeat local inhibit test. Value range: 3 to 6 minutes. (Values are in tenths of a second.) Default: 3000

Table A-35 Properties (continued)

Property	Definition
SS7-ITU.mtp3MaxSlTries	Maximum number of retries of signaling link test message. If MTP3 does not receive a response after two signaling link test messages, the system fails the link. Value range: 1 to 5. Default: 2
SS7-ITU.mtp3MsgPriority	Message priority of management messages for congestion periods. Value range: 0 to 3. Priority 1 (default) indicates without congestion priorities. Priorities greater than 1 indicate multiple congestion priorities. Priority 3 is the highest priority. Default: 2
SS7-ITU.mtp3MtpRstrT20	Overall MTP restart timer at the signaling point where MTP restarts. Value range: 50 to 61 seconds. (Values are in tenths of a second.) Default: 900
SS7-ITU.mtp3TfrUsed	Transfer restricted procedure is enabled (true) or disabled (false). Set to true or false. Default: false
SS7-ITU.mtp3tstSlTmT1	Waiting for signaling link test acknowledgment message. This must be greater than the value in mtp2T6. Value range: 4 to 12 seconds. Default: 50
SS7-ITU.mtp3tstSlTmT2	Interval for sending signaling link test message. Value range: 30 to 90 seconds. (Values are in tenths of a second.) Default: 300
SS7-ITU.mtp3UnhAckT12	Waiting for uninhibited acknowledgment. Value range: 0.8 through 1.5 seconds. (Values are in tenths of a second.) Default: 10
SS7-ITU.reference	Denotes versions for protocol standards supported for MTP. Default: ITU92
SS7-Japan.mtp2AermEmgThr	Alignment error rate monitor threshold duration for normal emergency operation. Value: 1 message. Default: 1
SS7-Japan.mtp2AermNrmThr	Alignment error rate monitor threshold duration for normal operation. range: 1 to 4 messages. Default: 4
SS7-Japan.mtp2CongDiscard	Discard frames upon entering congestion at MTP2. Set to true or false. Default: false

Table A-35 Properties (continued)

Property	Definition
SS7-Japan.mtp2LssuLen	Link status signal unit, status field length. Valid range: 1 or 2. Default: 2
SS7-Japan.mtp2MaxAlignRetries	Maximum number of attempts to align link before declaring it out-of-service (OOS). Value range: 1 through 10 attempts. Default: 5 <b>Note</b> The MGC also reattempts link alignment every 5 seconds.
SS7-Japan.mtp2MaxMsuFrmLen	Maximum frame length of a C7 message signal unit. Specify 62 or 272. Default: 272
SS7-Japan.mtp2MaxOutsFrames	The maximum outstanding frames that can be sent without receiving acknowledgment. Value range: 1 to 127. Default: 40
SS7-Japan.mtp2ProvingEmgT4	Emergency proving period. Value range: 5 through 7 tenths of a second. Default: 30
SS7-Japan.mtp2ProvingNormalT4	Normal proving period. Value range: 1 through 3 seconds. Default: 30
SS7-Japan.mtp2SuermThr	Signal unit error rate monitor threshold for emergency operation. Value range: 1 through 127. Default: 16384
SS7-Japan.mtp2T1	Maximum period in aligned/ready state before return to out-of-service state. Value range: 12 to 16 seconds. (Values are in tenths of a second.) Default: 150
SS7-Japan.mtp2T2	Maximum period in not aligned state before return to out of service state. Value range: 5 to 30 seconds. (Values are in tenths of a second.) Default: 50
SS7-Japan.mtp2T3	Maximum period in aligned state before return to out-of-service state. Value range: 5 to 14 seconds. (Values are in tenths of a second.) Default: 30
SS7-Japan.mtp2T5	Period for sending a SIB message to far-end. Value range: 80 to 120 seconds. (Values are in thousands of a second.) Default: 2

Table A-35 Properties (continued)

Property	Definition
SS7-Japan.mtp2T6	Remote congestion timer. If congestion is not cleared before expiration of this timer, the link fails. Value range: 1 to 6 seconds. (Values are in tenths of a second.) Default: 30
SS7-Japan.mtp2T7	MTP2 acknowledgment timer. On expiration, the link fails and an “excessive delay of acknowledgment” management message is generated. Value range: 0.5 to 2 seconds. (Values are in tenths of a second.) Default: 20
SS7-Japan.mtp3ApcMtpRstrT21	Overall MTP restart timer at an SP adjacent to an SP whose MTP restarts. Value range: 63 to 65 seconds. (Values are in tenths of a second.) Default: 0
SS7-Japan.mtp3DlnkConnAckT7	Waiting for signaling data link connection acknowledgment. Value range: 1 to 5 seconds. (Values are in tenths of a second.) Default: 20
SS7-Japan.mtp3FrcUnhT13	Waiting for force uninhibited. Value range: 0.8 through 1.5 seconds. (Values are in tenths of a second.) Default: 0
SS7-Japan.mtp3InhAckT14	Waiting for inhibit acknowledgment. Value range: 2 to 3 seconds (Values are in tenths of a second.) Default: 0
SS7-Japan.mtp3LocInhTstT22	Waiting to repeat local inhibit test. Value range: 3 to 6 minutes. (Values are in tenths of a second.) Default: 0
SS7-Japan.mtp3MaxSlTries	Maximum number of retries of signaling link test message. If MTP3 does not receive a response after two signaling link test messages, the system fails the link. Value range: 1 to 5. Default: 0
SS7-Japan.mtp3MsgPriority	Message priority of management messages for congestion periods. Value range: 0 to 3. Priority 1 (default) indicates without congestion priorities. Priorities greater than 1 indicate multiple congestion priorities. Priority 3 is the highest priority. Default: 2
SS7-Japan.mtp3MtpRstrT20	Overall MTP restart timer at the signaling point where MTP restarts. Value range: 50 to 61 seconds. (Values are in tenths of a second.) Default: 0

Table A-35 Properties (continued)

Property	Definition
SS7-Japan.mtp3T12	Waiting for signaling data link connection acknowledgment. Value range: 500 through 1500 milliseconds. (Values are in tenths of a second.) Default: 0
SS7-Japan.mtp3T13	Waiting for force uninhibited. Value range: 0.8 through 1.5 seconds. (Values are in tenths of a second.) Default: 0
SS7-Japan.mtp3T14	Waiting for inhibit acknowledgment. Value range: 2 to 3 seconds. (Values are in tenths of a second.) Default: 0
SS7-Japan.mtp3T20	Overall MTP restart timer at the signaling point whose MTP restarts. Value range: 50 to 61 seconds. (Values are in tenths of a second.) Default: 0
SS7-Japan.mtp3T21	Overall MTP restart timer at an SP adjacent to an SP whose MTP restarts. Value range: 63 to 65 seconds. (Values are in tenths of a second.) Default: 0
SS7-Japan.mtp3T22	Waiting to repeat local inhibit test. Value range: 3 to 6 minutes. (Values are in tenths of a second.) Default: 0
SS7-Japan.mtp3T7	Waiting for signaling data link connection acknowledgment. Value range: 1 through 20 seconds. (Values are in tenths of a second.) Default: 20
SS7-Japan.mtp3TfrUsed	Transfer restricted procedure is enabled (true) or disabled (false). Set to true or false. Default: false
SS7-Japan.mtp3tstSltmT1	Waiting for signaling link test acknowledgment message. This must be greater than the value in mtp2T6. Value range: 4 to 12 seconds. Default: 0
SS7-Japan.mtp3tstSltmT2	Interval for sending signaling link test message. Value range: 30 to 90 seconds. (Values are in tenths of a second.) Default: 0
SS7-Japan.mtp3UnhAckT12	Waiting for uninhibited acknowledgment. Value range: 0.8 through 1.5 seconds. (Values are in tenths of a second.) Default: 0
SS7-Japan.reference	Denotes versions for protocol standards supported for MTP. Default: NTT

Table A-35 Properties (continued)

Property	Definition
SS7-UK.mtp2AermEmgThr	Alignment error rate monitor threshold duration for normal emergency operation. Value: 1 message. Default: 1
SS7-UK.mtp2AermNrmThr	Alignment error rate monitor threshold duration for normal operation. Value range: 1 to 4 messages. Default: 4
SS7-UK.mtp2CongDiscard	Discard frames upon entering congestion at MTP2. Values: true or false. Default: false
SS7-UK.mtp2LssuLen	Link status signal unit, status field length. Values: 1 or 2. Default: 1
SS7-UK.mtp2MaxAlignRetries	Maximum number of attempts to align link before declaring it out-of-service (OOS). Value range: 1 through 10 attempts. Default: 5 <b>Note</b> The MGC also reattempts link alignment every 5 seconds.
SS7-UK.mtp2MaxMsuFrmLen	Maximum frame length of a C7 message signal unit. Specify 62 or 272. Default: 272
SS7-UK.mtp2MaxOutsFrames	The maximum outstanding frames that can be sent without receiving acknowledgment. Value range: 1 to 127. Default: 127
SS7-UK.mtp2ProvingEmgT4	Emergency proving period. Value range: 5 through 7 tenths of a second. Default: 6
SS7-UK.mtp2ProvingNormalT4	Normal proving period. Value range: 1 through 3 seconds. Default: 23
SS7-UK.mtp2SuermThr	Signal unit error rate monitor threshold for emergency operation. Value range: 1 through 127. Default: 64
SS7-UK.mtp2T1	Maximum period in aligned/ready state before return to out-of-service state. Value range: 12 to 16 seconds. (Values are in tenths of a second.) Default: 450
SS7-UK.mtp2T2	Maximum period in not aligned state before return to out of service state. Value range: 5 to 30 seconds. (Values are in tenths of a second.) Default: 250

Table A-35 Properties (continued)

Property	Definition
SS7-UK.mtp2T3	Maximum period in aligned state before return to out-of-service state. Value range: 5 to 14 seconds. (Values are in tenths of a second.) Default: 20
SS7-UK.mtp2T5	Period for sending a SIB message to far-end. Value range: 80 to 120 seconds. (Values are in thousands of a second.) Default: 1
SS7-UK.mtp2T6	Remote congestion timer. If congestion is not cleared before expiration of this timer, the link fails. Value range: 1 to 6 seconds. (Values are in tenths of a second.) Default: 60
SS7-UK.mtp2T7	MTP2 acknowledgment timer. On expiration, the link fails and an “excessive delay of acknowledgment” management message is generated. Value range: 0.5 to 2 seconds. (Values are in tenths of a second.) Default: 10
SS7-UK.mtp3ApcMtpRstrT21	Overall MTP restart timer at an SP adjacent to an SP whose MTP restarts. Value range: 63 to 65 seconds. (Values are in tenths of a second.) Default: 10
SS7-UK.mtp3DlnkConnAckT7	Waiting for signaling data link connection acknowledgment. Value range: 1 to 5 seconds. (Values are in tenths of a second.) Default: 10
SS7-UK.mtp3FrcUnhT13	Waiting for force uninhibited. Value range: 0.8 through 1.5 seconds. (Values are in tenths of a second.) Default: 10
SS7-UK.mtp3InhAckT14	Waiting for inhibit acknowledgment. Value range: 2 to 3 seconds (Values are in tenths of a second.) Default: 20
SS7-UK.mtp3LocInhTstT22	Waiting to repeat local inhibit test. Value range: 3 to 6 minutes. (Values are in tenths of a second.) Default: 3000
SS7-UK.mtp3MaxSlTries	Maximum number of retries of signaling link test message. If MTP3 does not receive a response after two signaling link test messages, the system fails the link. Value range: 1 to 5. Default: 2

Table A-35 Properties (continued)

Property	Definition
SS7-UK.mtp3MsgPriority	<p>Message priority of management messages for congestion periods. Value range: 0 to 3.</p> <p>Priority 1 indicates without congestion priorities. Priorities greater than 1 indicate multiple congestion priorities. Priority 3 is the highest priority.</p> <p>Default: 2</p>
SS7-UK.mtp3MtpRstrT20	<p>Overall MTP restart timer at the signaling point whose MTP restarts. Value range: 50 to 61 seconds. (Values are in tenths of a second.)</p> <p>Default: 900</p>
SS7-UK.mtp3TfrUsed	<p>Transfer restricted procedure is enabled (true) or disabled (false). Set to true or false.</p> <p>Default: false</p>
SS7-UK.mtp3tstSlmT1	<p>Waiting for signaling link test acknowledgment message. This must be greater than the value in mtp2T6. Value range: 4 to 12 seconds.</p> <p>Default: 50</p>
SS7-UK.mtp3tstSlmT2	<p>Interval for sending signaling link test message. Value range: 30 to 90 seconds. (Values are in tenths of a second.)</p> <p>Default: 300</p>
SS7-UK.mtp3UnhAckT12	<p>Waiting for uninhibited acknowledgment. Value range: 0.8 through 1.5 seconds. (Values are in tenths of a second.)</p> <p>Default: 10</p>
SS7-UK.reference	<p>Denotes versions for protocol standards supported for MTP.</p> <p>Default: ITU92</p>
TALI-IOCC.numRkrpMsg	<p>Number of the Routing Key Registration Primitive (RKR) operation to put in a TALI message. This value sets the number of operations attempted to be put in each TALI message. If the SG does not support multiple operation per message, the number of attempts revert to 1 operation per message. Value range: 1 through 100.</p> <p>Default: 3</p>
TALI-IOCC.switchOverTimer	<p>Interval a message is queued while adding or deleting a link to prevent a message from arriving out-of-order at the destination. Value range: 100 milliseconds through 60 seconds.</p> <p>Default: 2</p>
TALI-IOCC.t1Timer	<p>Interval between sending a “test” message. Value range: 100 ms through 60 seconds. (Values are in 100 milliseconds.)</p> <p>Default: 40 (4 seconds)</p>



Table A-35 Properties (continued)

Property	Definition
TALI-IOCC.t2Timer	Interval a peer has to return an “allo” (allow) or “proh” (prohibit) in response to a “test”. Value range: 100 milliseconds through 60 seconds. (Values are in 100 milliseconds.) Default: 30 (3 seconds)
TALI-IOCC.t3Timer	Interval the near end continues to process Service Data is received from the far end after a Management Prohibit Traffic Event occurred at the near end. Value range: 100 milliseconds through 60 seconds. (Values are in 100 milliseconds.) Default: 50 (5 seconds)
TALI-IOCC.t4Timer	Interval between sending “moni” (monitor) message. Value range: 100 milliseconds through 60 seconds. Default: 100 (10 seconds)
TALI-IOCC.tos	Type of Service. Provides an indication of the abstract parameters for the desired quality of service. Value range: 0 through 255. Default: 0

