



## Cisco Media Gateway Manager

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The Cisco EMF Action Interface issued as flow-through interface for the Cisco Media Gateway Manager 3.0/3.0.1 to enable Northbound applications (e.g., PTC) to provision the Cisco Gateway resources by integrating with a client application. Examples of these types of resources include RUDP Session and MGCPControllerPath.

The Cisco EMF graphical user interface (GUI) does not currently provide a user interface for the Cisco Media Gateway Manager 3.0/3.0.1 actions. In order to execute the Cisco Media Gateway Manager 3.0/3.0.1 actions described in the [“Action Interface” section on page 6-6](#) the Northbound interface application, Cisco Voice CORBA Gateway, must be utilized.

The intent of this chapter is to describe the following as implemented by the Cisco Media Gateway Manager 3.0/3.0.1:

- [Object Model, page 6-2](#)
- [Action Interface, page 6-6](#)
- [Trap Handling, page 6-35](#)



Note 1: CMGMVPop1AtmInterface will be supported in the data model but not in sub-chassis syncup and trap handling in Cisco Media Gateway Manager 3.0/3.0.1.

Note 2: Some of base classes containment relationships shown in Figure 6-1 are not inherited by the derived classes<sup>1</sup>:

- PXM1E based chassis can contain only VISM-PR cards.
- PXM1E on MGX8830 cannot contain RPM-XF cards.
- PXM45 chassis cannot contain VISM cards.
- valid combinations of MGX R2/R3 cards and Pop2Interfaces:
  - all cards: internal AtmInterfaces.
  - AXSM/AXSM-E: MGX R2/R3 Sonet lines.
  - PXM1E: MGX R2/R3 Sonet lines.
  - RPM-XF: MGX R2/R3 Ethernet lines or Sonet (POS) lines.
  - PXM45: no physical interfaces.

1. The list is only valid classes introduced or supported in Cisco Media Gateway Manager 3.0/3.0.1. See Cisco Media Gateway Manager 2.0 DS for Cisco Media Gateway Manager 2.0 classes.

The following figures provide the containment and cardinality views for the PXM45 and PXM1E-based MGX8850 and MGX8830 devices.

Figure 6-2 PXM45-based MGX8850 Object Model of Cisco Media Gateway Manager 3.0/3.0.1

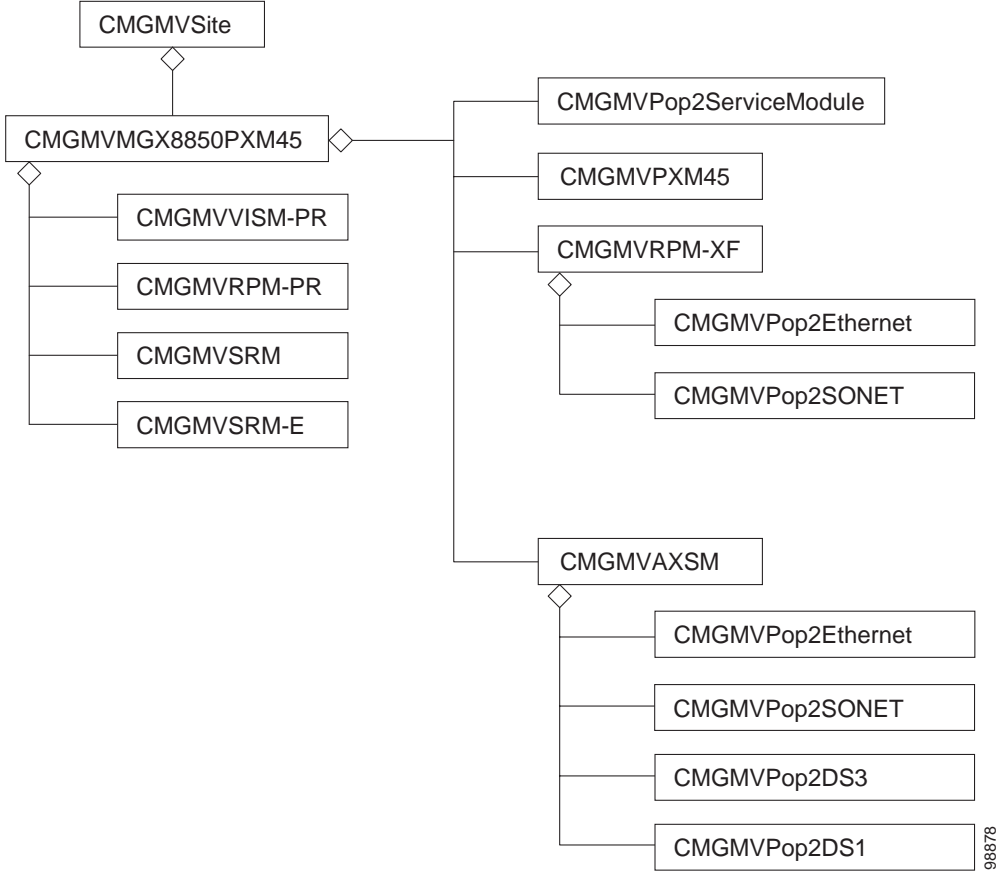


Figure 6-3 PXM1E-based MGX8830 Object Model of Cisco Media Gateway Manager 3.0/3.0.1

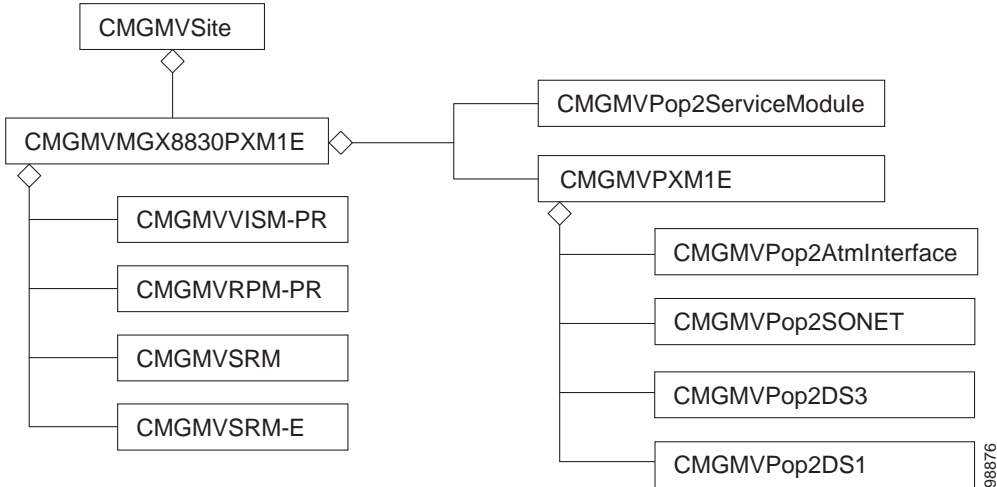
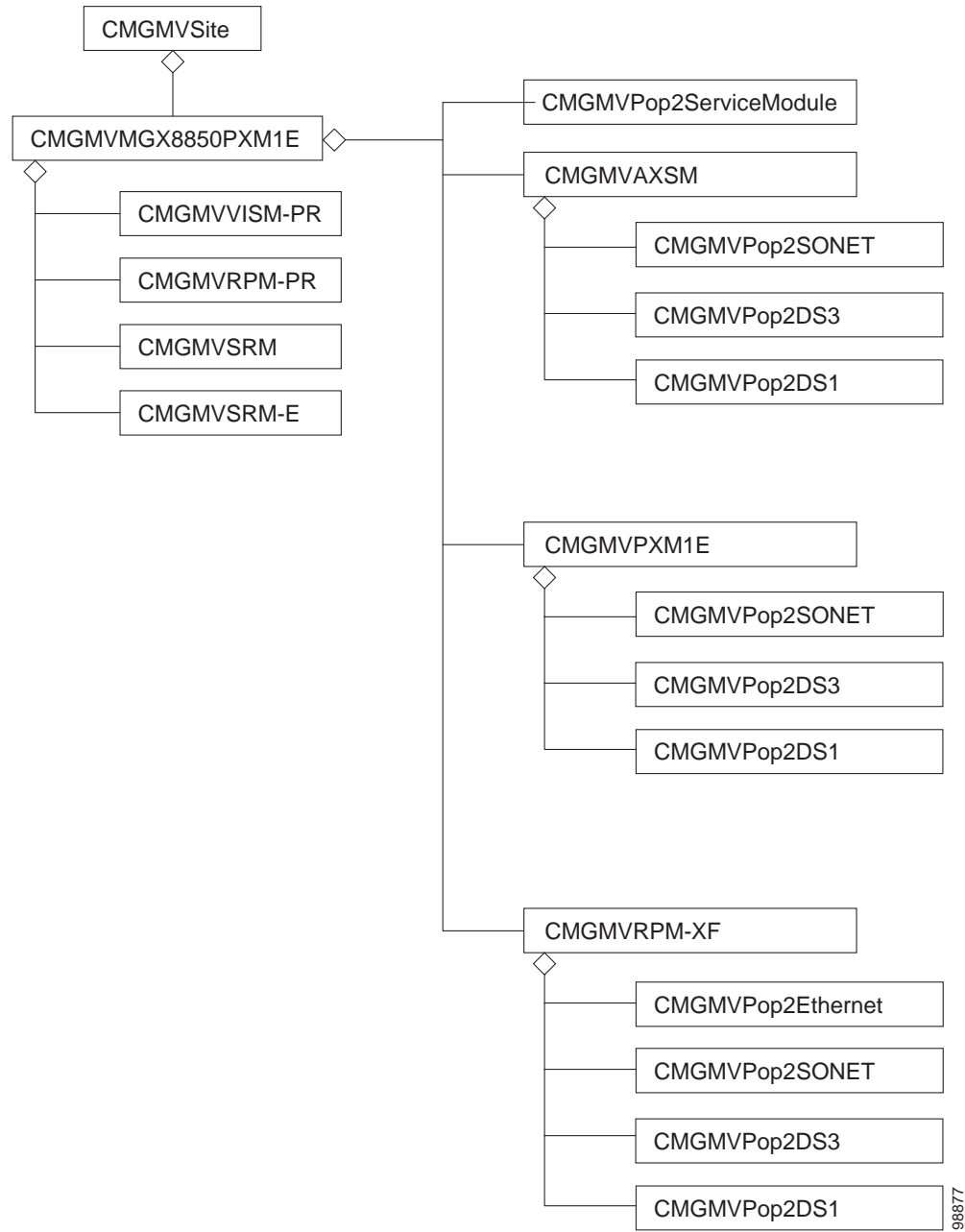


Figure 6-4 PXM1E-based MGX8850 Object Model of Cisco Media Gateway Manager 3.0/3.0.1



# Action Interface

The following table lists the actions that are supported in Cisco MGM release 3.0 to create, modify, and delete resources on the Cisco voice gateway devices. Each action interface is explained in detail later in the section.

*Table 6-1 Cisco MGM Action Support*

Action Name	Description
<a href="#">AddSessionSet</a>	Adds a session set
<a href="#">DeleteSessionSet</a>	Deletes the session set
<a href="#">AddSessionGroup</a>	Adds session group
<a href="#">DeleteSessionGroup</a>	Deletes the session group
<a href="#">AddRUDPSession</a>	Adds RUDP Session
<a href="#">ModifyRUDPSession</a>	Modify the parameters of RUDP Session
<a href="#">DeleteRUDPSession</a>	Deletes the RUDP session
<a href="#">AddDomainName</a>	Configures mgName, domain name and vism ip address
<a href="#">AddDomainNameIP</a>	Adds a domain name and its IP address information for resolution
<a href="#">AddMGCPControlPath</a>	Configures the MGCP control path between MG and Call Agent
<a href="#">ModifyMGCPControlPath</a>	Modify the parameters of MGCP control path between MG and Call Agent
<a href="#">DeleteDomainName</a>	Deletes the domain name
<a href="#">DeleteDomainNameIP</a>	Deletes the domain name and IP address information form VISM
<a href="#">DeleteMGCPControlPath</a>	Deletes the MGCP control path between MG and Call Agent
<a href="#">AddDChannel</a>	Adds a D-Channel
<a href="#">ModifyDChannel</a>	Modify the parameters of D-Channel
<a href="#">DeleteDChannel</a>	Deletes the D-Channel
<a href="#">AddVismTonePlan</a>	Adds a VISM Tone plan
<a href="#">DeleteVismTonePlan</a>	Deletes a VISM tone plan
<a href="#">AddCASVariant</a>	Adds a CAS Variant
<a href="#">ModifyCASVariant</a>	Modifies a CAS Variant
<a href="#">DeleteCASVariant</a>	Deletes CAS Variant
<a href="#">AddDS1Line</a>	Adds and configures a DS1 Line
<a href="#">ModifyDS1Line</a>	Modifies DS1 Line parameters
<a href="#">DeleteDS1Line</a>	Deletes a DS1 Line
<a href="#">AddEndPoints</a>	Adds the end points
<a href="#">ModifyEndPoints</a>	Modifies endpoints
<a href="#">DeleteEndPoints</a>	Deletes the End points
<a href="#">VismInitialConfig</a>	Mandatory initial VISM configuration
<a href="#">AddPVC</a>	Configure slave/master connection on VISM

# Interface Design

## Error handling and Rollback strategy

Since some of these actions issue multiple SNMP sets, atomicity needs to be ensured. This is taken care by rollback strategy. The Cisco MGM Action would first issue a SNMP Get and store the current values on the managed device for the SNMP attributes supplied to that action. At first occurrence of the error, action does the SNMP walk on the error table on the managed device to get the proper error string. Then it tries to rollback the supplied SNMP MIB attributes with the original values gotten through SNMP Get. There will be just one time rollback effort from Cisco MGM Action.

## Result string

There is no rigid structure for the results string. To indicate success or failure, the result string will contain:

- Failure—“Error: Action Failed”
- Success—“Success: Action executed successfully”

In case of failure, the error message got from the errStatusTable will also be annotated.

# Actions

## AddSessionSet

The following table describes the attribute(s) associated with the AddSessionSet action.

*Table 6-2 AddSessionSet Attributes*

CLI	MIB Attribute(s)	Mandatory/Optional	Value Type
addsessionset	SNMP:VISM-SESSION-MIB.vismSessionSetNum	Mandatory	Integer
	SNMP:VISM-SESSION-MIB.vismSessionSetFaultTolerant	Mandatory	Integer

### Example:

```
BULKACTION
cmgm: /CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>AddSessionSetAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgm: /CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="SNMP:VISM-SESSION-MIB.vismSessionSetNum">1</OA><OA
name="SNMP:VISM-SESSION-MIB.vismSessionSetFaultTolerant">1</OA></MO></BULKACTION>
```

## DeleteSessionSet

The following table describes the attribute(s) associated with the DeleteSessionSet action.

*Table 6-3 DeleteSessionSet Attributes*

CLI	MIB Attribute(s)	Mandatory/Optional	Value Type
delsessionset	SNMP:VISM-SESSION-MIB.vismSessionSetNum	Mandatory	Integer

### Example:

```
BULKACTION
cmgm: /CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>DeleteSessionSetAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgm: /CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="SNMP:VISM-SESSION-MIB.vismSessionSetNum">1</OA></MO></BULKACTION>
```



## AddSessionGroup

The following table describes the attribute(s) associated with the AddSessionGroup action.

*Table 6-4 AddSessionGroup Attribute*

CLI	MIB attributes	Mandatory/Optional	Value Type
addsesgrp	SNMP:VISM-SESSION-MIB.vismSessionGrpNum	Mandatory	Integer
	SNMP:VISM-SESSION-MIB.vismSessionGrpSetNum	Mandatory	Integer
	SNMP:VISM-SESSION-MIB.vismSessionGrpMgcName	Mandatory	Display String

### Example:

```
BULKACTION
cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>AddSessionGroupAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="SNMP:VISM-SESSION-MIB.vismSessionGrpNum">1</OA><OA
name="SNMP:VISM-SESSION-MIB.vismSessionGrpSetNum">1</OA><OA
name="SNMP:VISM-SESSION-MIB.
vismSessionGrpMgcName">vsc_185</OA></MO></BULKACTION>
```

## DeleteSessionGroup

The following table describes the attribute(s) associated with the DeleteSessionGroup action.

*Table 6-5 DeleteSessionGroup Attributes*

CLI	MIB attributes	Mandatory/Optional	Value Type
delsesgrp	SNMP:VISM-SESSION-MIB.vismSessionGrpNum	Mandatory	Integer

### Example:

```
BULKACTION
cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>DeleteSessionGroupAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="SNMP:VISM-SESSION-MIB.vismSessionGrpNum">1</OA></MO></BULKACTION>
```

## AddRUDPSession

The following table describes the attribute(s) associated with the AddRUDPSession action.

*Table 6-6 AddRUDPSession Attributes*

CLI	MIB attributes	Mandatory/Optional	Value Type
addses	SNMP:VISM-SESSION-MIB.vismRudpSessionNum	Mandatory	Integer
	SNMP:VISM-SESSION-MIB.vismRudpSessionGrpNum	Mandatory	Integer
	SNMP:VISM-SESSION-MIB.vismRudpSessionPriority	Mandatory	Integer
	SNMP:VISM-SESSION-MIB.vismRudpSessionLocalPort	Mandatory	Integer
	SNMP:VISM-SESSION-MIB.vismRudpSessionRmtPort	Mandatory	Integer
cnfsesack	SNMP:VISM-SESSION-IB.vismRudpSessionCumAckTmout	Optional	Integer
	SNMP:VISM-SESSION-MIB.vismRudpSessionMaxCumAck	Optional	Integer
cnfsesmaxreset	SNMP:VISM-SESSION-MIB.vismRudpSessionMaxAutoReset	Optional	Integer
cnfsesmaxseg	SNMP:VISM-SESSION-MIB.vismRudpSessionMaxSegSize	Optional	Integer
cnfsesmaxwindow	SNMP:VISM-SESSION-MIB.vismRudpSessionMaxWindow	Optional	Integer
cnfsesnullsegtmout	SNMP:VISM-SESSION-MIB.vismRudpSessionNullSegTmout	Optional	Integer
cnfsesoutofseq	SNMP:VISM-SESSION-MIB.vismRudpSessionMaxOutOfSeq	Optional	Integer
	SNMP:VISM-SESSION-MIB.vismRudpSessionRetransTmout	Optional	Integer
cnfsesretrans	SNMP:VISM-SESSION-MIB.vismRudpSessionMaxRetrans	Optional	Integer
	SNMP:VISM-SESSION-MIB.vismRudpSessionTransStateTmout	Optional	Integer
cnfsessyncatmps	SNMP:VISM-SESSION-MIB.vismRudpSessionSyncAttempts	Optional	Integer

### Example:

```
BULKACTION
cmgmv: /CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>AddRUDPSessionAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmv: /CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="SNMP:VISM-SESSION-MIB.vismRudpSessionNum">1</OA><OA
name="SNMP:VISM-SESSION-MIB.vismRudpSessionGrpNum">1</OA><OA
name="SNMP:VISM-SESSION-MIB.vismRudpSessionPriority">1</OA><OA
name="SNMP:VISM-SESSION-MIB.vismRudpSessionLocalPort">21124</OA><OA
name="SNMP:VISM-SESSION-MIB.
vismRudpSessionRmtPort">1124</OA></MO></BULKACTION>
```

## ModifyRUDPSession

The following table describes the attribute(s) associated with the ModifyRUDPSession action.

*Table 6-7 ModifyRUDPSession Attributes*

CLI	MIB Attribute(s)	Mandatory/Optional	Value Type
cnfsesack	SNMP:VISM-SESSION-MIB.vismRudpSessionNum	Mandatory	Integer
	SNMP:VISM-SESSION-MIB.vismRudpSessionCumAckTmout	Optional	Integer
	SNMP:VISM-SESSION-MIB.vismRudpSessionMaxCumAck	Optional	Integer
cnfsesmaxreset	SNMP:VISM-SESSION-MIB.vismRudpSessionMaxAutoReset	Optional	Integer
cnfsesmaxseg	SNMP:VISM-SESSION-MIB.vismRudpSessionMaxSegSize	Optional	Integer
cnfsesmaxwindow	SNMP:VISM-SESSION-MIB.vismRudpSessionMaxWindow	Optional	Integer
cnfsesnullsegTmout	SNMP:VISM-SESSION-MIB.vismRudpSessionNullSegTmout	Optional	Integer
cnfsesoutofseq	SNMP:VISM-SESSION-MIB.vismRudpSessionMaxOutOfSeq	Optional	Integer
cnfsesport	SNMP:VISM-SESSION-MIB.vismRudpSessionLocalPort	Optional	Integer
	SNMP:VISM-SESSION-MIB.vismRudpSessionRmtPort	Optional	Integer
cnfsesretrans	SNMP:VISM-SESSION-MIB.vismRudpSessionRetransTmout	Optional	Integer
	SNMP:VISM-SESSION-MIB.vismRudpSessionMaxRetrans	Optional	Integer
cnfsesstatetmout	SNMP:VISM-SESSION-MIB.vismRudpSessionTransStateTmout	Optional	Integer
cnfsessyncatmps	SNMP:VISM-SESSION-MIB.vismRudpSessionSyncAttempts	Optional	Integer

### Example:

```

BULKACTION
cmgmV:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>ModifyRUDPSessionAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmV:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="SNMP:VISM-SESSION-MIB.vismRudpSessionNum">1</OA><OA
name="SNMP:VISM-SESSION-MIB.vismRudpSessionCumAckTmout">200</OA><OA
name="SNMP:VISM-SESSION-MIB.vismRudpSessionMaxCumAck">1</OA><OA
name="SNMP:VISM-SESSION-MIB.vismRudpSessionMaxAutoReset">5</OA><OA
name="SNMP:VISM-SESSION-MIB.vismRudpSessionMaxSegSize">384</OA><OA
name="SNMP:VISM-SESSION-MIB.vismRudpSessionMaxWindow">32</OA><OA
name="SNMP:VISM-SESSION-MIB.vismRudpSessionNullSegTmout">1000</OA><OA
name="SNMP:VISM-SESSION-MIB.vismRudpSessionMaxOutOfSeq">4</OA><OA
name="SNMP:VISM-SESSION-MIB.vismRudpSessionLocalPort">21124</OA><OA
name="SNMP:VISM-SESSION-MIB.vismRudpSessionRmtPort">1124</OA><OA
name="SNMP:VISM-SESSION-MIB.vismRudpSessionRetransTmout">600</OA><OA
name="SNMP:VISM-SESSION-MIB.vismRudpSessionMaxRetrans">3</OA><OA
name="SNMP:VISM-SESSION-MIB.vismRudpSessionTransStateTmout">2000</OA><OA
name="SNMP:VISM-SESSION-MIB.
vismRudpSessionSyncAttempts">100</OA></MO></BULKACTION>

```

## DeleteRUDPSession

The following table describes the attribute(s) associated with the DeleteRUDPSession action.

*Table 6-8 DeleteRUDPSession Attributes*

CLI	MIB attributes	Mandatory/Optional	Value Type
delses	SNMP:VISM-SESSION-MIB.vismRudpSessionNum	Mandatory	Integer

### Example:

```
BULKACTION
cmgmv: /CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>DeleteRUDPSessionAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmv: /CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="SNMP:VISM-SESSION-MIB.vismRudpSessionNum">1</OA></MO></BULKACTION>
```

## AddDomainName

The following table describes the attribute(s) associated with the AddDomainName action.

*Table 6-9 AddDomainName Attributes*

CLI	MIB attributes	Mandatory/Optional	Value
cnfvismdn	SNMP:CISCO-WAN-MG-MIB.mgName	Mandatory	Display String
cnfvismip	SNMP:CISCO-WAN-AXIPOP-MIB.vismIpAddress	Mandatory	Ipaddress type
	SNMP:CISCO-WAN-AXIPOP-MIB.vismSubNetMask	Mandatory	Ipaddress type
	SNMP:CISCO-WAN-AXIPOP-MIB.vismBearerIpAddress	Mandatory	Ipaddress type
	SNMP:CISCO-WAN-AXIPOP-MIB.vismBearerSubNetMask	Mandatory	Ipaddress type
adddn	SNMP:CISCO-WAN-MG-MIB.mgDomainNameIndex	Mandatory	Integer
	SNMP:CISCO-WAN-MG-MIB.mgDomainName	Mandatory	Display String
	SNMP:CISCO-WAN-MG-MIB.mgDnsResolutionType	Optional	Integer

**Example:**

```

BULKACTION
cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>AddDomainNameAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="SNMP:CISCO-WAN-MG-MIB.mgName">slt3.vism5</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismIpAddress">10.52.5.1</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismSubNetMask">255.255.255.0</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismBearerIpAddress">0.0.0.0</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismBearerSubNetMask">255.255.255.0</OA><OA
name="SNMP:CISCO-WAN-MG-MIB.mgDomainNameIndex">1</OA><OA
name="SNMP:CISCO-WAN-MG-MIB.mgDomainName">vsc_185</OA><OA
name="SNMP:CISCO-WAN-MG-MIB.mgDnsResolutionType">1</OA></MO></BULKACTION>

```

## AddDomainNameIP

The following table describes the attribute(s) associated with the AddDomainNameIP action.

*Table 6-10 AddDomianNameIP Attributes*

CLI	MIB attributes	Mandatory/Optional	Value Type
adddnip	SNMP:CISCO-WAN-MG-MIB.mgcResolutionIndex	Mandatory	Integer
	SNMP:CISCO-WAN-MG-MIB.mgcResolutionName	Mandatory	Display String
	SNMP:CISCO-WAN-MG-MIB.mgcResolutionIpAddress	Mandatory	IpAddress
	SNMP:CISCO-WAN-MG-MIB.mgcResolutionPreference	Mandatory	Integer

**Example:**

```

BULKACTION
cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>AddDomainNameIPAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="SNMP:CISCO-WAN-MG-MIB.mgcResolutionIndex">1</OA><OA
name="SNMP:CISCO-WAN-MG-MIB.mgcResolutionName">vsc_185</OA><OA
name="SNMP:CISCO-WAN-MG-MIB.mgcResolutionIpAddress">10.52.5.2</OA><OA
name="SNMP:CISCO-WAN-MG-MIB.mgcResolutionPreference">1</OA></MO></BULKACTION>

```

## AddMGCPControlPath

The following table describes the attribute(s) associated with the AddMGCPControlPath action.

*Table 6-11 AddMGCPControlPath Attributes*

CLI	MIB attributes	Mandatory/Optional	Value Type
addmgc	SNMP:CISCO-WAN-MG-MIB.mgcNumber	Mandatory	Integer
	SNMP:CISCO-WAN-MG-MIB.mgcName	Mandatory	Display String
addmgcgrpentry	SNMP:CISCO-WAN-MG-MIB.mgcNumber (Repeated)	Mandatory	Integer
	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedundancyGrpNum	Mandatory	Integer
	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedundancyGrpPref	Mandatory	Integer
addmgcgrpprotocol	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedundancyGrpNum (Repeated)	Mandatory	Integer
	SNMP:CISCO-WAN-MG-MIB.mgProtocolNumber	Mandatory	Integer
cnfmgcgrpentry	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedundancyGrpNum (Repeated)	Mandatory	Integer
	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedundancyGrpPref	Optional	Integer
cnfmgcgrpparam	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedundancyGrpNum (Repeated)	Mandatory	Integer
	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedundancyGrpPriority	Optional	Integer
	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedundancyGrpStateChangeNtfy	Optional	Bool
cnfmgcgrpprotocol	SNMP:CISCO-WAN-MG-MIB.mgProtocolNumber (Repeated)	Mandatory	Integer
	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedGrpProtPersistEvtPolicy	Optional	Integer
	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedGrpProtQuarantinePolicy	Optional	Integer
	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedGrpProtSigEvtOnOffPolicy	Optional	Integer
	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedGrpProtProvisionalResponse	Optional	Integer
	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedGrpProtResponseAckAttr	Optional	Integer
	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedGrpProtDisconnectProcedure	Optional	Integer
	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedGrpProtCancelGraceful	Optional	Integer

Table 6-11 AddMGCPControlPath Attributes (continued)

CLI	MIB attributes	Mandatory/Optional	Value Type
cnfxgcppeer	SNMP:CISCO-WAN-AXIPOP-MIB.vismXgcpPeerNumber	Optional	Integer
cnfxgcpmwd	SNMP:CISCO-WAN-AXIPOP-MIB.vismXgcpPeerProtocolNumber	Optional	Integer
cnfxgcpretry	SNMP:CISCO-WAN-AXIPOP-MIB.vismXgcpPeerPort	Optional	Integer
addxgcppersistvt	SNMP:XGCP-MIB.xgcpRestartInProgressMWD	Optional	Integer
	SNMP:XGCP-MIB.xgcpRequestTimeout	Optional	Integer
	SNMP:XGCP-MIB.xgcpRequestRetries	Optional	Integer
cnfsrcppeer	SNMP:CISCO-WAN-SRCP-MIB.srcpPeerId	Optional	Integer
cnfsrcppeergrpparam	SNMP:CISCO-WAN-SRCP-MIB.srcpPeerPortNumber	Optional	Integer
cnfsrcpretry	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedundancyGrpNum (Repeated)	Mandatory	Integer
	SNMP:CISCO-WAN-SRCP-MIB.srcpPeerGrpHeartbeatInterval	Optional	Integer
	SNMP:CISCO-WAN-SRCP-MIB.srcpPeerGrpMaxPduSize	Optional	Integer
	SNMP:CISCO-WAN-SRCP-MIB.srcpRequestTimeout	Optional	Integer
	SNMP:CISCO-WAN-SRCP-MIB.srcpRequestRetries	Optional	Integer
	SNMP:CISCO-WAN-SRCP-MIB.srcpRequestMaxTimeout	Optional	Integer
cnfco4timer	SNMP:CISCO-WAN-AXIPOP-MIB.vismBearerContinuityTimer	Optional	Integer

**Example:**

```

BULKACTION
cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>AddMGCPControlPathAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedundancyGrpPref">1</OA><OA
name="SNMP:CISCO-WAN-MG-MIB.mgcNumber">1</OA><OA
name="SNMP:CISCO-WAN-MG-MIB.mgcName">vsc_185</OA><OA
name="SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedundancyGrpNum">1</OA><OA
name="SNMP:CISCO-WAN-MG-MIB.mgProtocolNumber">2</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.
vismBearerContinuityTimer">2000</OA></MO></BULKACTION>

```

## ModifyMGCPControlPath

The following table describes the attribute(s) associated with the ModifyMGCPControlPath action.

*Table 6-12 ModifyMGCPControlPath Attributes*

CLI	MIB attributes	Mandatory/Optional	Value
cnfmgcgrpentry	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedundancyGrpNum (Repeated)	Mandatory	Integer
	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedundancyGrpPref	Optional	Integer
cnfmgcgrpparam	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedundancyGrpNum (Repeated)	Mandatory	Integer
	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedundancyGrpPriority	Optional	Integer
	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedundancyGrpStateChangeNtfy	Optional	Bool
cnfmgcgrpprotocol	SNMP:CISCO-WAN-MGC-MIB.mgProtocolNumber (Repeated)	Optional	Integer
	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedGrpProtPersistEvtPolicy	Optional	Integer
	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedGrpProtQuarantinePolicy	Optional	Integer
	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedGrpProtSigEvtOnOffPolicy	Optional	Integer
	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedGrpProtProvisionalResponse	Optional	Integer
	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedGrpProtResponseAckAttr	Optional	Integer
	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedGrpProtDisconnectProcedure	Optional	Integer
	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedGrpProtCancelGraceful	Optional	Integer
cnfxgcppeer cnfxgcpmwd cnfxgcpretry addxgcppersistevt	SNMP:CISCO-WAN-AXIPOP-MIB.vismXgcpPeerNumber	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismXgcpPeerProtocolNumber	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismXgcpPeerPort	Optional	Integer
	SNMP:XGCP-MIB.xgcpRestartInProgressMWD	Optional	Integer
	SNMP:XGCP-MIB.xgcpRequestTimeOut	Optional	Integer
	SNMP:XGCP-MIB.xgcpRequestRetries	Optional	Integer



Table 6-12 ModifyMGCPControlPath Attributes (continued)

CLI	MIB attributes	Mandatory/Optional	Value
cnfsrcppeer	SNMP:CISCO-WAN-SRCP-MIB.srcpPeerId	Optional	Integer
cnfsrcppeergrpparam	SNMP:CISCO-WAN-SRCP-MIB.srcpPeerPortNumber	Optional	Integer
cnfsrcpretry	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedundancyGrpNum (Repeated)	Mandatory	Integer
	SNMP:CISCO-WAN-SRCP-MIB.srcpPeerGrpHeartbeatInterval	Optional	Integer
	SNMP:CISCO-WAN-SRCP-MIB.srcpPeerGrpMaxPduSize	Optional	Integer
	SNMP:CISCO-WAN-SRCP-MIB.srcpRequestTimeout	Optional	Integer
	SNMP:CISCO-WAN-SRCP-MIB.srcpRequestRetries	Optional	Integer
	SNMP:CISCO-WAN-SRCP-MIB.srcpRequestMaxTimeout	Optional	Integer
cnfco4timer	SNMP:CISCO-WAN-AXIPOP-MIB.vismBearerContinuityTimer	Optional	Integer

**Example:**

```

BULKACTION
cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>ModifyMGCPControlPathAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedundancyGrpNum">1</OA><OA
name="SNMP:CISCO-WAN-MG-MIB.mgcNumber">1</OA><OA
name="SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedundancyGrpPref">2</OA><OA
name="SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedundancyGrpPriority">2</OA><OA
name="SNMP:CISCO-WAN-MGC-REDUN-MIB.
mgcRedundancyGrpStateChangeNtfy">1</OA><OA
name="SNMP:CISCO-WAN-MG-MIB.mgProtocolNumber">2</OA><OA
name="SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedGrpProtPersistEvtPolicy">1</OA><OA
name="SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedGrpProtQuarantinePolicy">2</OA><OA
name="SNMP:CISCO-WAN-MGC-REDUN-MIB.
mgcRedGrpProtSigEvtOnOffPolicy">1</OA><OA
name="SNMP:CISCO-WAN-MGC-REDUN-MIB.
mgcRedGrpProtProvisionalResponse">2</OA><OA
name="SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedGrpProtResponseAckAttr">2</OA><OA
name="SNMP:CISCO-WAN-MGC-REDUN-MIB.
mgcRedGrpProtDisconnectProcedure">2</OA><OA
name="SNMP:CISCO-WAN-MGC-REDUN-MIB.
mgcRedGrpProtCancelGraceful">2</OA></MO></BULKACTION>

```

## DeleteDomainName

The following table describes the attribute(s) associated with the DeleteDomainName action.

Table 6-13 DeleteDomainName Attributes

CLI	MIB attributes	Mandatory/Optional	Value Type
deldn	SNMP:CISCO-WAN-MG-MIB.mgDomainNameIndex	Mandatory	Integer

**Example:**

```
BULKACTION
cmgmv: /CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>DeleteDomainNameAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmv: /CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="SNMP:CISCO-WAN-MG-MIB.mgcDomainNameIndex">1</OA></MO></BULKACTION>
```

## DeleteDomainNameIP

The following table describes the attribute(s) associated with the DeleteDomainNameIP action.

*Table 6-14 DeleteDomainNameIP Attributes*

CLI	MIB attributes	Mandatory/Optional	Value Type
deldnip	SNMP:CISCO-WAN-MG-MIB.mgcResolutionIndex	Mandatory	Integer

**Example:**

```
BULKACTION
cmgmv: /CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>DeleteDomainNameIPAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmv: /CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="SNMP:CISCO-WAN-MG-MIB.mgcResolutionIndex">1</OA></MO></BULKACTION>
```

## DeleteMGCPControlPath

The following table describes the attribute(s) associated with the DeleteMGPCControlPath action.

*Table 6-15 DeleteMGPCControlPath Attributes*

CLI	MIB attributes	Mandatory/Optional	Value
delmgcgrpprotocol	SNMP:CISCO-WAN-MG-MIB.mgcProtocolNumber	Mandatory	Integer
delmgcgrpentry	SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedundancyGrpNum	Mandatory	Integer
delmgc	SNMP:CISCO-WAN-MG-MIB.mgcNumber	Mandatory	Integer

**Example:**

```
BULKACTION
cmgmv: /CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>DeleteMGCPControlPathAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmv: /CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="SNMP:CISCO-WAN-MGC-REDUN-MIB.mgcRedundancyGrpNum">1</OA><OA
name="SNMP:CISCO-WAN-MG-MIB.mgcProtocolNumber">3</OA><OA
name="SNMP:CISCO-WAN-MG-MIB.mgcNumber">1</OA></MO></BULKACTION>
```

## AddDChannel

The following table describes the attribute(s) associated with the AddDChannel action.

*Table 6-16 AddDChannel Attributes*

CLI	MIB attributes	Mandatory/Optional	Value Type
addlapd	LocalDB:Cmgmvmodule.startDs1LineNumber	Mandatory	Integer
	LocalDB:Cmgmvmodule.startDs0Number	Mandatory	Integer
	SNMP:VISM-LAPD-MIB.vismLapdSide	Mandatory	Integer
	SNMP:VISM-LAPD-MIB.vismLapdAppType	Mandatory	Integer
cnflapdtype cnflapdwinsize cnflapdretrans cnflapdtimer	SNMP:VISM-LAPD-MIB.vismLapdtype	Optional	Integer
	SNMP:VISM-LAPD-MIB.vismLapdWinSize	Optional	Integer
	SNMP:VISM-LAPD-MIB.vismLapdN200	Optional	Integer
	SNMP:VISM-LAPD-MIB.vismLapdT200	Optional	Integer
	SNMP:VISM-LAPD-MIB.vismLapdT203	Optional	Integer

### Example:

```
BULKACTION
cmgmw:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>AddDChannelAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmw:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="LocalDB:Cmgmvmodule.startDs1LineNumber">7</OA><OA
name="LocalDB:Cmgmvmodule.startDs0Number">1</OA></MO></BULKACTION>
```

## ModifyDChannel

The following table describes the attribute(s) associated with the ModifyDChannel action.

*Table 6-17 ModifyDChannel Attributes*

CLI	MIB attributes	Mandatory/Optional	Value Type
Cnflapdtype cnflapdwinsize cnflapdretrans cnflapdtimer	LocalDB:Cmgmvmodule.startDs1LineNumber	Mandatory	Integer
	LocalDB:Cmgmvmodule.startDs0Number	Mandatory	Integer
	SNMP:VISM-LAPD-MIB.vismLapdtype	Optional	Integer
	SNMP:VISM-LAPD-MIB.vismLapdWinSize	Optional	Integer
	SNMP:VISM-LAPD-MIB.vismLapdN200	Optional	Integer
	SNMP:VISM-LAPD-MIB.vismLapdT200	Optional	Integer
	SNMP:VISM-LAPD-MIB.vismLapdT203	Optional	Integer

**Example:**

```

BULKACTION
cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>ModifyDChannelAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="LocalDB:Cmgmvmodule.startDs1LineNumber">3</OA><OA
name="LocalDB:Cmgmvmodule.startDs0Number">1</OA><OA
name="SNMP:VISM-LAPD-MIB.vismLapdN200">3</OA><OA
name="SNMP:VISM-LAPD-MIB.vismLapdT200">1000</OA><OA
name="SNMP:VISM-LAPD-MIB.vismLapdT203">10000</OA></MO></BULKACTION>

```

## DeleteDChannel

The following table describes the attribute(s) associated with the DeleteDChannel action.

*Table 6-18 DeleteDChannel Attributes*

CLI	MIB attributes	Mandatory/Optional	Value Type
Dellapd	LocalDB:Cmgmvmodule.startDs1LineNumber	Mandatory	Integer
	LocalDB:Cmgmvmodule.startDs0Number	Mandatory	Integer

**Example:**

```

BULKACTION
cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>DeleteDChannelAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="LocalDB:Cmgmvmodule.startDs1LineNumber">3</OA><OA
name="LocalDB:Cmgmvmodule.startDs0Number">1</OA></MO></BULKACTION>

```

## AddVismTonePlan

The following table describes the attribute(s) associated with the AddVismTonePlan action.

*Table 6-19 AddVismTonePlan Attributes*

CLI	MIB attributes	Mandatory/Optional	Value Type
addtoneplan	SNMP:CISCO-WAN-VISM-TONE-PLAN-MIB.tonePlanIndex	Mandatory	Integer
	SNMP:CISCO-WAN-VISM-TONE-PLAN-MIB.tonePlanRegionName	Mandatory	Display String
	SNMP:CISCO-WAN-VISM-TONE-PLAN-MIB.tonePlanVersionNumber	Mandatory	Integer
	SNMP:CISCO-WAN-VISM-TONE-PLAN-MIB.tonePlanFileName	Mandatory	Display String

**Example:**

```

BULKACTION
cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>AddVismTonePlanAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="SNMP:CISCO-WAN-VISM-TONE-PLAN-MIB.tonePlanIndex">1</OA><OA
name="SNMP:CISCO-WAN-VISM-TONE-PLAN-MIB.tonePlanRegionName">Tone1</OA><OA
name="SNMP:CISCO-WAN-VISM-TONE-PLAN-MIB.tonePlanFileName">tone.txt</OA><OA
name="SNMP:CISCO-WAN-VISM-TONE-PLAN-MIB.
tonePlanVersionNumber">1</OA></MO></BULKACTION>

```

## DeleteVismTonePlan

The following table describes the attribute(s) associated with the DeleteVismTonePlan action.

*Table 6-20 DeleteVismTonePlan Attributes*

CLI	MIB attributes	Mandatory/Optional	Value Type
deltoneplan	SNMP:CISCO-WAN-VISM-TONE-PLAN-MIB.tonePlanIndex	Mandatory	Integer
	SNMP:CISCO-WAN-VISM-TONE-PLAN-MIB.tonePlanRegionName	Mandatory	String
	SNMP:CISCO-WAN-VISM-TONE-PLAN-MIB.tonePlanVersionNumber	Mandatory	Integer

**Example:**

```

BULKACTION
cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>DeleteVismTonePlanAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="SNMP:CISCO-WAN-VISM-TONE-PLAN-MIB.
tonePlanIndex">1</OA></MO></BULKACTION>

```

## AddCASVariant

The following table describes the attribute(s) associated with the AddCASVariant action.

*Table 6-21 AddCASVariant Attributes*

CLI	MIB attributes	Mandatory/Optional	Value Type
addcasvar	SNMP:CISCO-WAN-AXIPOP-MIB.vismCasVariantName	Mandatory	String
	SNMP:CISCO-WAN-AXIPOP-MIB.vismCasFileName	Mandatory	String
	SNMP:CISCO-WAN-AXIPOP-MIB.vismCasVariantSource	Optional	Integer
cnfcasvar	SNMP:CISCO-WAN-AXIPOP-MIB.vismCasVariantName (Repeated)	Mandatory	String
	SNMP:CISCO-WAN-AXIPOP-MIB.vismCasCountryCode	Optional	String
	SNMP:CISCO-WAN-AXIPOP-MIB.vismCasTRinging	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismCasInterdigitTpart	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismCasInterdigitTcrit	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismCasInterdigitTMF	Optional	Integer

### Example:

```
BULKACTION
cmgmv: /CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>AddCASVariantAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmv: /CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismCasVariantName">cas_var1</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismCasFileName">ground_start.o</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismCasVariantSource">1</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismCasCountryCode">JP</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismCasTRinging">100</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismCasInterdigitTpart">10</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismCasInterdigitTcrit">100</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.
vismCasInterdigitTMF">5</OA></MO></BULKACTION>
```

## ModifyCASVariant

The following table describes the attribute(s) associated with the ModifyCASVariant action.

*Table 6-22 ModifyCASVariant Attributes*

CLI	MIB attributes	Mandatory/Optional	Value Type
cnfcasvar	SNMP:CISCO-WAN-AXIPOP-MIB.vismCasVariantName	Mandatory	String
	SNMP:CISCO-WAN-AXIPOP-MIB.vismCasCountryCode	Optional	String
	SNMP:CISCO-WAN-AXIPOP-MIB.vismCasTRinging	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismCasInterdigitTpart	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismCasInterdigitTcrit	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismCasInterdigitTMF	Optional	Integer

**Example:**

```

BULKACTION
cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>ModifyCASVariantAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismCasVariantName">cas_var1</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismCasCountryCode">US</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismCasTRinging">101</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismCasInterdigitTpart">11</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismCasInterdigitTcrit">101</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.
vismCasInterdigitTMF">6</OA></MO></BULKACTION>

```

## DeleteCASVariant

The following table describes the attribute(s) associated with the DeleteCASVariant action.

*Table 6-23 DeleteCASVariant Attributes*

CLI	MIB attributes	Mandatory/Optional	Value Type
delcasvar	SNMP:CISCO-WAN-AXIPOP-MIB.vismCasVariantName	Mandatory	String

**Example:**

```

BULKACTION
cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>DeleteCASVariantAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.
vismCasVariantName">cas_var1</OA></MO></BULKACTION>

```

## AddDS1Line

The following table describes the attribute(s) associated with the AddDS1Line action.

*Table 6-24 AddDS1Line Attribute*

CLI	MIB attributes	Mandatory/Optional	Value
Addln	SNMP:CISCO-MGX82XX-DSX1-MIB.lineNum	Mandatory	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.lineEnable	Mandatory	Integer
Cnfln	SNMP:CISCO-MGX82XX-DSX1-MIB.lineNum (Repeated)	Mandatory	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.lineCoding	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.lineLength	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.lineXmtClockSource	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.lineType	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.lineLoopbackCodeDetecti on	Optional	Integer

Table 6-24 AddDS1Line Attribute (continued)

CLI	MIB attributes	Mandatory/Optional	Value
Cnflnsig Cnftrunkcond	SNMP:CISCO-MGX82XX-DSX1-MIB.lineNum (Repeated)	Mandatory	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.vismSignalingType	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.vismTrunkConditionEnable	Optional	Integer
Cnflntoneplan	SNMP:CISCO-MGX82XX-DSX1-MIB.lineNum (Repeated)	Mandatory	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsx1TonePlanRegion	Optional	Display String
	SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsx1TonePlanVersion	Optional	Integer
Cnfmalm	SNMP:CISCO-MGX82XX-DSX1-MIB.lineNum (Repeated)	Mandatory	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.redSeverity	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.rAISeverity	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.nEAlarmUpCount	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.nEAlarmDownCount	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.nEAlarmThreshold	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.fEAlarmUpCount	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.fEAlarmDownCount	Optional	Integer
SNMP:CISCO-MGX82XX-DSX1-MIB.fEAlarmThreshold	Optional	Integer	
cnfecanenable	SNMP:CISCO-MGX82XX-DSX1-MIB.vismEcanEnabled	Optional	Integer
cnfecanrec	SNMP:CISCO-MGX82XX-DSX1-MIB.vismEcanREC	Optional	Integer
cnfecantail	SNMP:CISCO-MGX82XX-DSX1-MIB.vismEcanTail	Optional	Integer
Cnfcompvad	SNMP:CISCO-MGX82XX-DSX1-MIB.vismCompCnfVAD	Optional	Integer
cnflndigitorder	SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsx1TxDigitOrder	Optional	Integer
cnflnringback	SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsx1RemoteRingback	Optional	Integer
cnflntonetimeout	SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsx1RemoteRingback	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsx1RingingTO	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsx1RingBackTO	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsx1BusyTO	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsx1ReorderTO	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsx1DialTO	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsx1StutterDialTO	Optional	Integer
SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsx1OffHookAlertTO	Optional	Integer	



**Example:**

```

BULKACTION
cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>AddDS1LineAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.lineNum">6</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.lineEnable">3</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.lineCoding">2</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.lineLength">11</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.lineXmtClockSource">1</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.lineType">1</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.lineLoopbackCodeDetection">2</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.vismSignalingType">1</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.vismTrunkConditionEnable">1</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsxlTonePlanRegion">Japan</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsxlTonePlanVersion">1</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.vismEcanEnabled">2</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.vismEcanREC">2</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.vismEcanTail">32</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.vismCompCnfVAD">2</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsxlTxDigitOrder">1</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsxlRemoteRingback">1</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsxlRingingTO">200</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsxlRingBackTO">200</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsxlBusyTO">25</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsxlReorderTO">25</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsxlDialTO">20</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsxlStutterDialTO">20</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsxlOffHookAlertTO">5</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.redSeverity">2</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.rAISeverity">5</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.nEAlarmUpCount">8</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.nEAlarmDownCount">2</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.nEAlarmThreshold">2000</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.fEAlarmUpCount">8</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.fEAlarmDownCount">2</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-
MIB.fEAlarmThreshold">2000</OA></MO></BULKACTION>

```

## ModifyDS1Line

The following table describes the attribute(s) associated with the ModifyDS1Line action.

*Table 6-25 ModifyDS1Line Attributes*

CLI	MIB attributes	Mandatory/Optional	Value
Cnfln	SNMP:CISCO-MGX82XX-DSX1-MIB.lineNum (Repeated)	Mandatory	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.lineCoding	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.lineLength	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.lineXmtClockSource	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.lineType	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.lineLoopbackCodeDetecti on	Optional	Integer

Table 6-25 ModifyDS1Line Attributes (continued)

CLI	MIB attributes	Mandatory/Optional	Value
Cnftrunkcond	SNMP:CISCO-MGX82XX-DSX1-MIB.lineNum (Repeated)	Mandatory	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.vismTrunkConditionEnable	Optional	Integer
Cnflntoneplan	SNMP:CISCO-MGX82XX-DSX1-MIB.lineNum (Repeated)	Mandatory	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsx1TonePlanRegion	Optional	Display String
	SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsx1TonePlanVersion	Optional	Integer
Cnfalm	SNMP:CISCO-MGX82XX-DSX1-MIB.lineNum (Repeated)	Mandatory	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.redSeverity	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.rAISeverity	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.nEAlarmUpCount	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.nEAlarmDownCount	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.nEAlarmThreshold	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.fEAlarmUpCount	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.fEAlarmDownCount	Optional	Integer
cnfecanenable	SNMP:CISCO-MGX82XX-DSX1-MIB.vismEcanEnabled	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.vismEcanREC	Optional	Integer
cnfecantail	SNMP:CISCO-MGX82XX-DSX1-MIB.vismEcanTail	Optional	Integer
Cnfcompvad	SNMP:CISCO-MGX82XX-DSX1-MIB.vismCompCnfVAD	Optional	Integer
cnflndigitorder	SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsx1TxDigitOrder	Optional	Integer
cnflnringback	SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsx1RemoteRingback	Optional	Integer
cnflntonetimeout	SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsx1RemoteRingback	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsx1RingingTO	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsx1RingBackTO	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsx1BusyTO	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsx1ReorderTO	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsx1DialTO	Optional	Integer
	SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsx1StutterDialTO	Optional	Integer
SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsx1OffHookAlertTO	Optional	Integer	

**Example:**

```

BULKACTION
cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>ModifyDS1LineAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.lineNum">1</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.lineCoding">2</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.lineLength">11</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.lineXmtClockSource">1</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.lineType">1</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.lineLoopbackCodeDetection">2</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.vismLineNum">1</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.vismTrunkConditionEnable">1</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.vismDsxlTonePlanRegion">Japan</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-
MIB.vismDsxlTonePlanVersion">1</OA></MO></BULKACTION>

```

## DeleteDS1Line

The following table describes the attribute(s) associated with the DeleteDS1Line action.

*Table 6-26 DeleteDS1Line Attributes*

CLI	MIB attributes	Mandatory/Optional	Value Type
delln	SNMP:CISCO-MGX82XX-DSX1-MIB.lineNum	Mandatory	Integer

**Example:**

```

BULKACTION
cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>DeleteDS1LineAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="SNMP:CISCO-MGX82XX-DSX1-MIB.lineNum">6</OA></MO></BULKACTION>

```

## AddEndpoints

The following table describes the attribute(s) associated with the AddEndpoints action.

*Table 6-27 AddEndpoints Attributes*

CLI	MIB attributes	Mandatory/Optional	Value
Addendpts	LocalDB:Cmgmvmodule.startEndPointNumber	Mandatory	Integer
	LocalDB:Cmgmvmodule.startDs1LineNumber	Mandatory	Integer
	LocalDB:Cmgmvmodule.startDs0Number	Mandatory	Integer
	LocalDB:Cmgmvmodule.TotalEndpoints	Mandatory	Integer
	LocalDB:Cmgmvmodule.ds1LineType	Mandatory	Integer
Cnfcasendpt	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasVariantName	Optional	String
Cnfcasparamsource	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasParameterSource	Optional	Integer
cnfcasonhooktime	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasOnHookMinMakeTime	Optional	Integer
cnfcasoffhooktime	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasOffHookMinMakeTime	Optional	Integer
cnfcaswinktime	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasWinkMinMakeTime	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasWinkMaxMakeTime	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasWinkBreakTime	Optional	Integer
cnfcasglaretime	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasGlareTime	Optional	Integer
cnfcasguardtime	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasGaurdTime	Optional	Integer
cnfcasdialdelay	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasDelayImmedStart	Optional	Integer
Cnfcasflashtime	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasMinDelayDialTime	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasFlashMaxMakeTime	Optional	Integer
cnfcascode	SNMP:CISCO-WAN-AXIPOP-MIB.ds0IdleCode	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.ds0SeizedCode	Optional	Integer
Cnfdsoflocalcas	SNMP:CISCO-WAN-AXIPOP-MIB.ds0InsertLocalCas	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.ds0LocalCasPattern	Optional	Integer
Cnfcasglareattrib	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasGlarePolicy	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasDirectionality	Optional	Integer
Cnfcaspackage	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasIncomingMgcpPackage	Optional	String
	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasOutgoingMgcpPackage	Optional	String
Cnfdsofloop	SNMP:CISCO-WAN-AXIPOP-MIB.ds0LoopbackCommand	Optional	Integer
Cnfdsofmusicthreshold	SNMP:CISCO-WAN-AXIPOP-MIB.ds0MusicThreshold	Optional	Integer
Cnfdsofgain	SNMP:CISCO-WAN-AXIPOP-MIB.ds0InputGain	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.ds0OutputAttenuation	Optional	Integer

**Example:**

```

BULKACTION
cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>AddEndpointsAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="LocalDB:Cmgmvmodule.startEndPointNumber">1</OA><OA
name="LocalDB:Cmgmvmodule.startDs1LineNumber">6</OA><OA
name="LocalDB:Cmgmvmodule.startDs0Number">1</OA><OA
name="LocalDB:Cmgmvmodule.TotalEndpoints">24</OA><OA
name="LocalDB:Cmgmvmodule.ds1LineType">1</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasParameterSource">1</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasOnHookMinMakeTime">100</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasOffHookMinMakeTime">100</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasWinkMinMakeTime">100</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasWinkMaxMakeTime">100</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasWinkBreakTime">100</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasGlareTime">100</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasGaurdTime">100</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasDelayImmedStart">300</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasMinDelayDialTime">100</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasFlashMaxMakeTime">1400</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0IdleCode">0</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0SeizedCode">15</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0InsertLocalCas">1</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0LocalCasPattern">15</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasGlarePolicy">1</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasDirectionality">1</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasIncomingMgcpPackage">A</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasOutgoingMgcpPackage">A</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0LoopbackCommand">1</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0InputGain">0</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0OutputAttenuation">0</OA></MO><BULKACTION>

```

PTC will not send the above MIB attributes to Cisco MGM. The following attributes will be sent to Cisco MGM as part of this action:

- StartEndPointNumber
- LineNum
- StartDs0Number
- TotalEndpoints

Cisco MGM should generate the above MIB attributes based on the input parameters to Cisco MGM and add the required number of end points in one action.

To put it in simple terms, the requirement on Cisco MGM is to simulate the “addendpts” cli of VISM.

## ModifyEndPoints

The following table describes the attribute(s) associated with the ModifyEndPoints action.

*Table 6-28 ModifyEndPoints Attributes*

CLI	MIB attributes	Mandatory/Optional	Value
Cnfcasendpt	LocalDB:Cmgmvmodule.startDs1LineNumber	Mandatory	Integer
	LocalDB:Cmgmvmodule.startDs0Number	Mandatory	Integer
	LocalDB:Cmgmvmodule.TotalEndPoints	Mandatory	Integer
	LocalDB:Cmgmvmodule.ds1LineType	Mandatory	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasVariantName	Optional	String
Cnfcasparamsource	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasParameterSource	Optional	Integer
cnfcasonhooktime	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasOnHookMinMakeTime	Optional	Integer
cnfcasoffhooktime	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasOffHookMinMakeTime	Optional	Integer
cnfcaswinktime	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasWinkMinMakeTime	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasWinkMaxMakeTime	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasWinkBreakTime	Optional	Integer
cnfcasglaretime	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasGlareTime	Optional	Integer
cnfcasguardtime	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasGaurdTime	Optional	Integer
cnfcasdialdelay	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasDelayImmedStart	Optional	Integer
Cnfcasflashtime	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasMinDelayDialTime	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasFlashMaxMakeTime	Optional	Integer
Cnfcascode	SNMP:CISCO-WAN-AXIPOP-MIB.ds0IdleCode	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.ds0SeizedCode	Optional	Integer
Cnfdsolocalcas	SNMP:CISCO-WAN-AXIPOP-MIB.ds0InsertLocalCas	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.ds0LocalCasPattern	Optional	Integer
Cnfcasglareattrib	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasGlarePolicy	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasDirectionality	Optional	Integer
Cnfcaspackage	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasIncomingMgcpPackage	Optional	String
	SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasOutgoingMgcpPackage	Optional	String
Cnfdsoloop	SNMP:CISCO-WAN-AXIPOP-MIB.ds0LoopbackCommand	Optional	Integer
Cnfdsomusicthreshold	SNMP:CISCO-WAN-AXIPOP-MIB.ds0MusicThreshold	Optional	Integer
Cnfdsogain	SNMP:CISCO-WAN-AXIPOP-MIB.ds0InputGain	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.ds0OutputAttenuation	Optional	Integer

**Example:**

```

BULKACTION
cmgm:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>ModifyEndPointsAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgm:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="LocalDB:Cmgmvmodule.startDs1LineNumber">6</OA><OA
name="LocalDB:Cmgmvmodule.startDs0Number">1</OA><OA
name="LocalDB:Cmgmvmodule.TotalEndPoints">24</OA><OA
name="LocalDB:Cmgmvmodule.ds1LineType">1</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasParameterSource">1</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasOnHookMinMakeTime">100</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasOffHookMinMakeTime">100</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasWinkMinMakeTime">100</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasWinkMaxMakeTime">100</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasWinkBreakTime">100</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasGlareTime">100</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasGaurdTime">100</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasDelayImmedStart">300</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasMinDelayDialTime">100</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasFlashMaxMakeTime">1400</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0IdleCode">0</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0SeizedCode">15</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0InsertLocalCas">1</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0LocalCasPattern">15</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasGlarePolicy">1</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasDirectionality">1</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasIncomingMgcpPackage">A</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0CasOutgoingMgcpPackage">A</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0LoopbackCommand">1</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.ds0InputGain">0</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.
ds0OutputAttenuation">0</OA></MO><BULKACTION>

```

PTC will not send the `dsx0VismCnfTable.ds0IfIndex` MIB attributes to Cisco MGM. The following attributes will be sent to Cisco MGM as part of this action:

- StartLineNumber
- StartDS0Number
- TotalEndPoints

Cisco MGM should generate the above MIB attributes based on the input parameters to Cisco MGM and modify the required number of end points in one action.

## DeleteEndPoints

The following table describes the attribute(s) associated with the DeleteEndPoints action.

*Table 6-29 DeleteEndPoints Attributes*

CLI	MIB attributes	Mandatory/Optional	Value Type
Delendpts	LocalDB:Cmgmvmodule.startEndPointNumber	Mandatory	Integer
	LocalDB:Cmgmvmodule.TotalEndPoints	Mandatory	Integer

### Example:

```
BULKACTION
cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>DeleteEndPointsAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="LocalDB:Cmgmvmodule.startEndPointNumber">25</OA><OA
name="LocalDB:Cmgmvmodule.TotalEndPoints">24</OA></MO></BULKACTION>
```

PTC will not send the above MIB attributes to Cisco MGM. The following attributes will be sent to Cisco MGM as part of this action:

- StartEndPointNumber
- TotalEndPoints

Cisco MGM should generate the above MIB attributes based on the input parameters to Cisco MGM and delete the required number of end points in one action.

To put it in simple terms, the requirement on Cisco MGM is to simulate the “delendpts” cli of VISM.



## VismInitialConfig

The following table describes the attribute(s) associated with the VismInitialConfig action.

*Table 6-30 VismInitialConfig Attributes*

CLI	MIB attributes	Mandatory/Optional	Value Type
Addport	< No attribute need to be input >	N/A	N/A
Addrscrptn	SNMP:CISCO-WAN-AXIPOP-MIB.vismResPartCtrlrNum	Optional	Integer
Cnfvismip	SNMP:CISCO-WAN-AXIPOP-MIB.vismIpAddress	Optional	IpAddress
	SNMP:CISCO-WAN-AXIPOP-MIB.vismSubNetMask	Optional	IpAddress
	SNMP:CISCO-WAN-AXIPOP-MIB.vismBearerIpAddress	Optional	IpAddress
	SNMP:CISCO-WAN-AXIPOP-MIB.vismBearerSubNetMask	Optional	IpAddress
Cnfxgcpbt	SNMP:CISCO-WAN-AXIPOP-MIB.vismXgcpBearerNetworkType	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismXgcpBearerVCType	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismXgcpBearerConnectionType	Optional	Integer
cnfcac + cnfcacparams + cnfconcacparams + cnfvbdpol	SNMP:CISCO-WAN-AXIPOP-MIB.vismCacEnable	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismVADTolerance	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismVADDutyCycle	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismCnfChanNum	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismChanVADTolerance	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismChanVADDutyCycle	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismCacRejectionPolicy	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismCarrierLossPolicy	Optional	Integer
cnfgwis	SNMP:CISCO-WAN-MG-MIB.mgAdministrativeStateControl	Optional	Integer

### Example:

```

BULKACTION
cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>VismInitialConfigAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmv:/CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismResPartCtrlrNum">2</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismIpAddress">10.52.5.1</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismSubNetMask">255.255.255.0</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismBearerIpAddress">0.0.0.0</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismBearerSubNetMask">255.255.255.0</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismXgcpBearerNetworkType">1</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismXgcpBearerVCType">1</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismXgcpBearerConnectionType">3</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismCacEnable">1</OA><OA name="SNMP:CISCO-WAN-
MG-MIB.mgAdministrativeStateControl">3</OA></MO></BULKACTION>

```

## AddPVC

The following table describes the attribute(s) associated with the AddPVC action.

*Table 6-31 AddPVC Attributes*

CLI	MIB attributes	Mandatory/Optional	Value Type
Addcon	SNMP:CISCO-WAN-AXIPOP-MIB.vismCnfChanNum	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismChanPreference	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismChanPvcType	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismChanApplication	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismConnPCR	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismMastership	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismConnServiceType	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismChanScrIngress	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismChanMbsIngress	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismRemoteVpi	Optional	Integer
	SNMP:CISCO-WAN-AXIPOP-MIB.vismRemoteVci	Optional	Integer
	LocalDB:Cmgmvmodule.pxm1PortNumber (POP1)	Optional	Integer
	LocalDB:BASIS-GENERIC-MIB.moduleSlotNumber (POP2)	Optional	Integer
	LocalDB:Cmgmvmodule.backCardNumber (POP2)	Optional	Integer
	SNMP:CISCO-MGX8800-IF-MAPPING-MIB.cmimIfNumber (POP2)	Optional	Integer
SNMP:CISCO-MGX8800-IF-MAPPING-MIB.cmimIfType (POP2)	Optional	Integer	

### Example:

```

BULKACTION
cmgmV: /CMGM_Site_cyberwerx/172.18.101.80/VISM_PR_Slot_11
<BULKACTION><ACTIONNAME>AddPVCAction</ACTIONNAME><MO
identity="CMGMVVISM"><OA
name="PATH">cmgmV: /CMGM_Site_default/172.18.101.80/VISM_PR_Slot_11</OA><OA
name="LocalDB:BASIS-GENERIC-MIB.moduleSlotNumber">7</OA><OA
name="LocalDB:Cmgmvmodule.backCardNumber">2</OA><OA
name="SNMP:CISCO-MGX8800-IF-MAPPING-MIB.cmimIfNumber">1</OA><OA
name="SNMP:CISCO-MGX8800-IF-MAPPING-MIB.cmimIfType">4</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismCnfChanNum">132</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismRemoteVpi">1</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismRemoteVci">132</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismChanPreference">1</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismChanPvcType">2</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismChanApplication">2</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismConnPCR">50</OA><OA
name="SNMP:CISCO-WAN-AXIPOP-MIB.vismMastership">1</OA></MO></BULKACTION>

```

# Trap Handling

## Trap Mapping

The Cisco Media Gateway Manager 3.0/3.0.1 trap mapping rules are found in the following directory:

`CEMF_ROOT/config/cmgmvCtrl/trapMappingFiles`



**Note**

Replace *CEMF\_ROOT* with the name of the directory where Cisco EMF is installed.

Upon receipt of a trap, the following tasks are performed based on the contents of the trap mapping files:

- Severity mapping
- Object class mapping
- Object mapping
- Varbind morphing

Alarms raised on an appropriate Cisco Media Gateway Manager 3.0/3.0.1 object may be viewed in the Cisco EMF Event Browser. All traps from the Cisco MGX 8000 have a trap severity in the varbinds (moduleTrapAlarmSeverity is defined in the BASIS-GENERIC-MIB). The severity of the trap is mapped to a Cisco EMF severity according to the data in the following table.

*Table 6-32 Trap Severity Mapping*

Cisco EMF Alarm Severity	Associated Event Color	MGX 8000 Trap Severity Value
Minor	Yellow	minor (1)
Major	Orange	major (2)
Critical	Red	critical (4)
Warning	Cyan	error (5) warning (6) notice (7)
Informational	White	info (8) dont-Care (3)

## Clear Correlation Rules

Cisco Media Gateway Manager 3.0/3.0.1 includes clear correlation rules. Clear correlation rules automatically clear traps listed in the Event Browser when the specified criteria is met. Files describing clear correlation rules for each supported packages are available in the following directory:

```
CEMF_ROOT/config/dataload/clearCorrelationRules/
```

For a complete listing of the traps and associated clear correlation rules Cisco Media Gateway Manager 3.0/3.0.1 supports, see the following file:

```
CEMF_ROOT/config/dataload/clearCorrelationRules/cmgmvclearCorrelations
```

For a complete listing of the traps and associated clear correlation rules Cisco BTS supports, see the following file:

```
CEMF_ROOT/config/dataload/clearCorrelationRules/btsClearCorrelations
```

**Note**

---

Replace *CEMF\_ROOT* in the previous statements with the name of the directory where Cisco EMF is installed.

---

Alarms not found in the clear correlation files are not cleared automatically and require manual clearing.