

OVOC

Performance Monitoring Guide

Version 7.6



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Related Documentation

Document Name
Mediant 500 MSBR User's Manual
Mediant 500L MSBR User's Manual
Mediant 500L Gateway and E-SBC User's Manual
Mediant 800B Gateway and E-SBC User's Manual
Mediant 800B MSBR User's Manual
Mediant 1000B Gateway and E-SBC User's Manual

Document Name
Mediant 1000B MSBR User's Manual
Mediant 2600 E-SBC User's Manual
Mediant 3000 User's Manual
Mediant 4000 SBC User's Manual
Mediant 9000 SBC User's Manual
Mediant Software SBC User's Manual
One Voice Operations Center IOM Manual
AudioCodes One Voice Operations Center Product Description
One Voice Operations Center User's Manual
Device Manager Pro Administrator's Manual
Device Manager Express Administrator's Manual
One Voice Operations Center Security Guidelines
One Voice Operations Center Integration with Northbound Interfaces
Device Manager for Third-Party Vendor Products Administrator's Manual
Device Manager Agent Installation and Configuration Guide
ARM User's Manual

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Table of Contents

1	Introduction	1
2	Configuring Performance Monitoring Thresholds	4
3	System	6
	acPMDSPUtil	6
4	SBC	7
	SBC Call Stats	7
	acPMChannelsPerCoder	7
	acPMSBCAsr	8
	acPMSBCNer	9
	acPMSBCAcd	9
	acPMSBCInCaps	10
	acPMSBCOutCaps	11
	acPMSIPSBCEmptyCalls	11
	acPMSBCInAttemptedCalls	12
	acPMSBCOutAttemptedCalls	12
	acPMSBCInEstablishedCalls	13
	acPMSBCOutEstablishedCalls	14
	acPMSBCMediaBrokenConnectionCalls	14
	acPMSBCInShortCallsTable	15
	acPMSBCOutShortCalls	15
	SBC Quality Stats	16
	acPMModuleRTTPPacketLossRx	16
	acPMModuleRTTPPacketLossTxTable	17
	acPMModulePacketDelay	17
	acPMModulePacketJitter	18
	SBC Other Stats	19
	acPMSBCMediaLegs	19
	acPMSBCTranscodingSessions	19
	acPMSBCRegisteredUsers	20
	acPMSBCInAttemptedRegistrations	21
	acPMSBCOutAttemptedRegistrations	21
	acPMSBCIPGroupInSuccessfulRegistrations	22
	acPMSBCOutSuccessfulRegistrations	23
	SBC Failure Stats	23
	acPMSBCInUserDefinedFailures	23
	acPMSBCOutUserDefinedFailures	25
5	Gateway	27
	Gateway Stats	27
	acPMSIPAttemptedCalls	27
	acPMSIPCallDuration	27
	acPMSIPEstablishedCallsTable	28
	acPMSIPFaxAttemptedCalls	29

acPMSIPFaxSuccessCalls	29
acPMSIPForwardedCalls	30
Gateway Call Failures	31
acPMSIPNoMatchCalls	31
acPMSIPBusyCalls	31
acPMSIPNoAnswerCalls	32
acPMSIPNoRouteCalls	33
acPMSIPFailCallsTable	33
acPMSIPNoResourcesCalls	34
6 IP Group	36
IP Group Call Stats	36
acPMSIPIPGroupInviteDialogs	36
acPMSIPIPGroupInInviteDialogsTable	36
acPMSIPIPGroupOutInviteDialogs	37
acPMSBCIPGroupAsr	38
acPMSBCIPGroupNer	38
acPMSBCIPGroupAcd	39
acPMSBCIPGroupInCaps	39
acPMSBCIPGroupOutCaps	40
acPMSBCIPGroupInAttemptedCalls	41
acPMSBCIPGroupOutAttemptedCalls	41
acPMSBCIPGroupInEstablishedCalls	42
acPMSBCIPGroupOutEstablishedCalls	42
acPMSBCIPGroupMediaBrokenConnectionCalls	43
acPMSBCIPGroupInShortCalls	44
acPMSBCIPGroupOutShortCallsTable	44
IP Group Other Stats	45
acPMSIPIPGroupSubscribeDialogs	45
acPMSIPIPGroupInSubscribeDialogs	46
acPMSIPIPGroupOutSubscribeDialogsTable	46
acPMSIPIPGroupDialogsTable	47
acPMSBCIPGroupInAttemptedRegistrations	47
acPMSBCIPGroupOutAttemptedRegistrations	48
acPMSBCIPGroupInSuccessfulRegistrations	49
acPMSBCIPGroupOutSuccessfulRegistrations	49
IP Group Failure Stats	50
acPMSBCIPGroupInUserDefinedFailures	50
acPMSBCIPGroupOutUserDefinedFailures	51
7 Trunk Group	53
Trunk Group Call Stats	53
acPMSIPTTrunkGroupCallDuration	53
Trunk Group Call Failures	53
acPMSIPTTrunkGroupNoResourcesCalls	53
Trunk Group Trunk Stats	54
acPMSIPTTrunkGroupUtilization	54

acPMSIPTTrunkGroupPercentageUtilization	55
acPMSIPTTrunkGroupAllTrunksBusy	56
acPMSIPTTrunkGroupAllTrunksBusyPercentage	56
8 SRD	58
SRD Call Stats	58
acPMSBCSrdAsr	58
acPMSBCSrdNer	58
acPMSBCSrdAcd	59
acPMSIPSRDInviteDialogs	60
acPMSBCSrdInCaps	60
acPMSBCOutCaps	61
acPMSBCSRDInAttemptedCalls	61
acPMSBCSRDOutAttemptedCalls	62
acPMSBCInEstablishedCalls	63
acPMSBCSRDOutEstablishedCallsTable	63
acPMSBCSRDMediaBrokenConnectionCalls	64
acPMSBCSRDInShortCalls	65
acPMSBCSRDOutShortCalls	65
SRD Other Stats	66
acPMSIPSRDDialogsTable	66
acPMSBCSRDInAttemptedRegistrations	67
acPMSBCSRDOutAttemptedRegistrations	67
acPMSBCSRDInSuccessfulRegistrationsTable	68
acPMSBCSRDOutSuccessfulRegistrationsTable	68
SRD Failure Stats	69
acPMSBCSRDInUserDefinedFailures	69
acPMSBCSRDOutUserDefinedFailures	71

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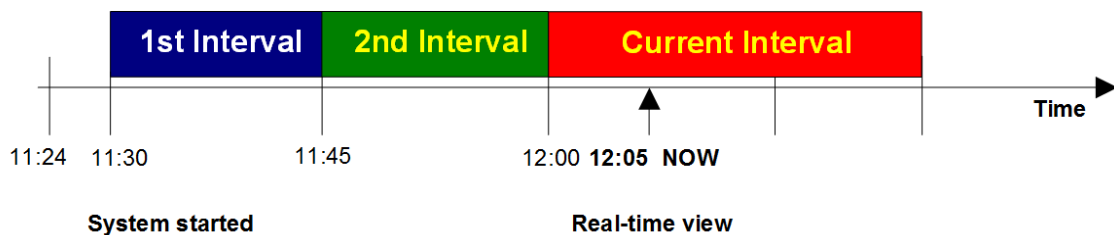
1 Introduction

This manual describes the performance monitoring parameters that can be configured in the OVOC Web interface. Performance Monitoring analysis is one of the tools that can be used by OVOC operators for network planning and administration in the OVOC topology. PM helps the system architect design a better network. PM helps operators discover malfunctioning devices before they start causing a problem on the production network. This monitoring involves the collection of high-level historic data polled from the managed entities (System, SBC, Gateway, IP Group, Trunk Group and SRD). Data files can be exported to an XML file, retrieved from the NBIF directory and then opened in third-party applications for analysis. Threshold monitors raise alarms when a threshold is exceeded and clear them when the PMs value falls below the defined low threshold value (see [Configuring Performance Monitoring Thresholds](#) on page 4 for more information).

The system provides two types of performance measurements:

- **Gauges:** Gauges represent the current state of a PM parameter in the system. Gauges, unlike counters, can decrease in value, and like counters, can increase. The gauges calculates the minimum, average and maximum values for each PM.
- **Counters:** Counters always increase in value and are cumulative. Counters, unlike gauges, never decrease in value unless the system is reset. The counters are then zeroed.

Performance measurements are managed through an SNMP or REST interface (this document is for managing Performance Monitors with an SNMP interface). These measurements are polled at 15 minute intervals. History PM Measurements supply statistical data of the PM entity during the last interval period as shown in the figure below.



History Performance is measured in a constant time interval of 15 minutes to which all elements in the network are synchronized. Intervals commence precisely every 15 minutes, for example, 12:00:00, 12:15:00, 12:30:00, 12:45:00, etc. This allows synchronization of several management systems to the same interval time frame. Note that the first interval after start-up is always shorter (in the example above, the first interval only lasts 6 minutes - so that a new interval can start exactly on the 15 minute interval, in this case 11:30:00). During the initial start-up interval i.e. 6 minutes in the example above, polling is not performed.

The table below details each field included in the table descriptions for each Performance Monitoring parameter.

Table 1-1: Information Included in Each PM

PM Field	Details
Group Display Name	The navigation path of the PM group. For example, SBC > Call Stats
MIB Name	The name of the associated MIB object
Description	Explanation of the Performance Monitor functionality.

PM Field	Details
Display Name	<p>Name of the Performance Monitor as it appears in the OVOC Web Performance Monitoring Profile and Performance Monitoring output.</p> <p>For User defined Performance monitors, the following syntax is used: <Failure Type>User Defined Failures <Rule Number_1-26></p> <p>Where <Rule Number_1-26> indicates the rule ID for up to 26 user-defined Performance Monitoring (PM) SNMP MIB rules for SBC calls.</p>
Enabled in Factory Default PM Template	Indicates whether the Performance Monitor is enabled in the PM Factory default template that is automatically assigned to a new tenant.
PM Type (Counter or Gauge)	Indicates whether the PM is a counter or gauge.
<p>Value</p> <p>The following syntax format is displayed in the MIB browser for the polled PM: <MIB Name>Val</p> <ul style="list-style-type: none"> ■ For User defined Performance monitors: <MIB Name><Rule Number_1-26>Val 	Indicates the counter value.
<p>Max</p> <p>The following syntax format is displayed in the MIB browser for the polled PM: <MIB Name>Max<PM Name></p>	Indicates the maximum gauge value.
<p>Min</p> <p>The following syntax format is displayed in the MIB browser for the polled PM: <MIB Name>Min<PM Name></p>	Indicates the minimum gauge value.
<p>Average</p> <p>The following syntax format is displayed in the MIB browser for the polled PM: <MIB Name>Average<PM Name></p>	Indicates the average gauge value.
Aggregation Support	Indicates whether performance monitoring parameter can be aggregated.
MIB Version Support	Indicates from which gateway/SBC device version performance monitoring is supported.

PM Field	Details
Additional Info	Describes additional information regarding the performance monitor. For example, in the Coders Table (acPMChannelsPerCoder) describes the full list of supported coders. For PSTN calls, indicates whether both call legs are supported i.e. Tel-to-IP and IP-to-Tel calls.



For further information on SNMP MIBs, refer to the SNMP Reference Guide for Gateways-SBCs-MSBRs.

2 Configuring Performance Monitoring Thresholds

Thresholds can be configured for Performance Monitoring parameters using the device INI file.



- PM thresholds cannot be configured using the OVOC Web interface nor are they displayed.
- The 15 minute polling interval cannot be changed.

The SNMP trap event `acPerformanceMonitoringThresholdCrossing` is sent every time the threshold of a Performance Monitored object is crossed. The severity field is 'indeterminate' when the crossing is above the threshold and 'cleared' when it returns to below the threshold. The trap's 'source varbind' indicates the object for which the threshold is crossed. To enable this feature, load an ini file to the device with the following parameter setting:

```
PM_EnableThresholdAlarms = 1
```

Once enabled, you can also disable the sending of this trap per performance monitoring MIB, or change its default low and high threshold values. This can be done through SNMP or ini file. To configure this through ini file, use the following syntax:

```
PM_<MIB Source Name><_Index> = '<Enable or Disable>,<Low Threshold>,<High Threshold>,<Interval>'
```

where:

- <MIB Source Name> is the source name of the MIB, for example, `PM_TrunkUtilization`, `PM_NetUtilKBytes`, and `PM_gwSBCAttemptedCalls`.
- <_Index> is optional and is used to indicate the performance monitoring MIB index, for example, a specific Trunk. To indicate all indices, omit it.
- <Enable or Disable> enables (1) or disables (0) this feature for the specific performance monitoring MIB.
- <Low Threshold> is the low-threshold value.
- <High Threshold> is the high-threshold value.
- <Interval> is the measuring interval, which is always fixed at 15 minutes. Therefore, this value must always be configured as 15.

Below shows two ini file configuration examples for the `acPMSIPIPGroupOutInviteDialogsTable` performance monitoring MIB (OID 1.3.6.1.4.1.5003.10.8.2.52.35):

- The feature is enabled, the low threshold is 10 outgoing INVITE dialogs per IP Group, the high threshold is 18, and the interval length is 15 minutes:
`PM_gwIPGroupOutINVITEDialogs = '1,10,18,15'`
- The feature is disabled:
`PM_gwIPGroupOutINVITEDialogs = '0,10,18,15'`



In the above example, the corresponding MIB name for the PM_gwIPGroupOutINVITEDialogs source name is acPMSIPIPGroupOutInviteDialogs. For determining the corresponding source name of the MIB whose threshold you wish to configure, refer to the SNMP Reference Guide for Gateways-SBCs-MSBRs.

If you download (save) the device's ini file, it includes all SNMP performance monitoring MIBs whose thresholds (low and/or high) you have changed from default. To apply these same threshold values to other devices, load the file to the other devices.

3 System

This section describes the DSP system utility Performance Monitoring parameter.

acPMDSPUtil

PM Field	Details
Group Display Name	System > System Stats
MIB Name	acPMDSPUtil
Description	
Display Name	DSP Util
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min <MIB Name>Min<PM Name>	Yes
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	No
MIB Version Support	Version 7.2
Additional Info	Not Available

4 SBC

This section describes the SBC performance monitoring parameters.

SBC Call Stats

This section describes SBC Call Statistics Performance Monitoring parameters.

acPMChannelsPerCoder

PM Field	Details
Group Display Name	SBC > Call Stats
MIB Name (parent MIB)	acPMChannelsPerCoder
Description	Indicates the number of active channels per coder. For SNMP, the MIB displays the coder as an enum: G711=0; G723=1; G728=2; G729a=3; G729e=4; AMR=5; G729EV=6; EG711=7; EVRC=8; unknownCoder=9; G726=10; RTA=11; SILK=12; AMR=13;G722=14; G727=15; GSM=16;QCELP=17 VOXADPCM=18; iLBC=19; SPEEX=20
Display Name	<Coder Name> Active Calls
Enabled in Factory Default PM Template	Yes
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max< Coder Name>	Yes
Min <MIBname> Min<Coder Name>	Yes
Average	Yes

PM Field	Details
<MIBname> Average<Coder Name>	
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info (separate PM for each coder)	G711;G723;G728;G729a;G729e;AMR;EVRC;G729EV;EG711;G726;RTA;SILK;ARMWB;G722;G727;GSM;QCELP;VOXADPCM;ILBC;SPEEX

acPMSBCAsr

PM Field	Details
Group Display Name	SBC > Call Stats
MIB Name	acPMSBCAsr
Description	Indicates the Answer-seizure Ratio (ASR) for all (global) entities (i.e., all IP Groups and SRDs).
Display Name	ASR
Enabled in Factory Default PM Template	Yes
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min <MIB Name>Min<PM Name>	Yes
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	No
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSBCNer

PM Field	Details
Group Display Name	SBC > Call Stats
MIB Name	acPMSBCNer
Description	Indicates the Network Effectiveness Ratio (NER) for all (global) entities (i.e., all IP Groups and SRDs).
Display Name	NER
Enabled in Factory Default PM Template	Yes
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min <MIB Name>Min<PM Name>	Yes
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	No
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSBCAcD

PM Field	Details
Group Display Name	SBC > Call Stats
MIB Name	acPMSBCAcD
Description	Indicates the Average Call Duration (ACD) for all (global) entities (i.e., all IP Groups and SRDs).
Display Name	ACD
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Gauge
Value	No
Max	Yes

PM Field	Details
<MIB Name>Max<PM Name>	
Min <MIB Name>Min<PM Name>	Yes
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	No
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSBCInCaps

PM Field	Details
Group Display Name	SBC > Call Stats
MIB Name	acPMSBCInCaps
Description	Indicates the number of incoming calls per second.
Display Name	IN CAPS
Enabled in Factory Default PM Template	Yes
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min <MIB Name>Min<PM Name>	Yes
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSBCOutCaps

PM Field	Details
Group Display Name	SBC > Call Stats
MIB Name	acPMSBCOutCaps
Description	Indicates the number of outgoing calls per second.
Display Name	OUT CAPS
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min	No
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSIPSBCAttemptedCalls

PM Field	Details
Group Display Name	SBC > Call Stats
MIB Name	acPMSIPSBCAttemptedCalls
Description	Indicates the number of attempted SBC calls.
Display Name	Attempted Calls
Enabled in Factory Default PM Template	Yes
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No

PM Field	Details
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCInAttemptedCalls

PM Field	Details
Group Display Name	SBC > Call Stats
MIB Name	acPMSBCInAttemptedCalls
Description	Indicates the total number of attempted incoming SBC calls.
Display Name	In Attempted Calls
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCOutAttemptedCalls

PM Field	Details
Group Display Name	SBC > Call Stats
MIB Name	acPMSBCOutAttemptedCalls
Description	Indicates the total number of attempted outgoing SBC calls.
Display Name	Out Attempted Calls

PM Field	Details
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCInEstablishedCalls

PM Field	Details
Group Display Name	SBC > Call Stats
MIB Name	acPMSBCInEstablishedCalls
Description	Indicates the total number of incoming established SBC calls.
Display Name	In Established Calls
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCOutEstablishedCalls

PM Field	Details
Group Display Name	SBC > Call Stats
MIB Name	acPMSBCOutEstablishedCalls
Description	Indicates the total number of outgoing established SBC calls.
Display Name	Out Established Calls
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCMediaBrokenConnectionCalls

PM Field	Details
Group Display Name	SBC > Call Stats
MIB Name	acPMSBCMediaBrokenConnectionCalls
Description	Indicates the total number of established calls that were disconnected because no RTP packets (media) were received for a user-defined period (configured by the BrokenConnectionEventTimeout parameter).
Display Name	Media Broken Connection Calls
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes

PM Field	Details
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCInShortCallsTable

PM Field	Details
Group Display Name	SBC > Call Stats
MIB Name	acPMSBCInShortCalls
Description	Indicates the total number of incoming calls whose duration was less than the value configured by the ShortCallSeconds parameter.
Display Name	In Short Calls
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCOutShortCalls

PM Field	Details
Group Display Name	SBC > Call Stats
MIB Name	acPMSBCOutShortCalls

PM Field	Details
Description	Indicates the total number of outgoing calls whose duration was less than the value configured by the ShortCallSeconds parameter.
Display Name	Out Short Calls
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

SBC Quality Stats

This section describes SBC Quality Statistics performance monitoring parameters.

acPMModuleRTPPacketLossRx

PM Field	Details
Group Display Name	SBC > Quality Stats
MIB Name	PMModuleRTPPacketLossRx
Description	Indicates the Rx RTP packet loss (reported by RTCP), during the time interval.
Display Name	Rx RTP Packet Loss
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min	No

PM Field	Details
<MIB Name>Min<PM Name>	
Average <MIB Name>Average<PM Name>	No
Aggregation Support	No
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMModuleRTPPacketLossTxTable

PM Field	Details
Group Display Name	SBC > Quality Stats
MIB Name	acPMModuleRTPPacketLossTx
Description	Indicates the Tx RTP packet loss (reported by RTCP), during the time Interval.
Display Name	Tx RTP Packet Loss
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min	No
Average	No
Aggregation Support	No
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMModulePacketDelay

PM Field	Details
Group Display Name	SBC > Quality Stats
MIB Name	acPMModulePacketDelay

PM Field	Details
Description	Indicates the RTP packet delay during the collection time interval.
Display Name	RTP delay
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min <MIB Name>Min<PM Name>	Yes
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	No
MIB Version Support	Version 7.2
Additional Info	-

acPMModulePacketJitter

PM Field	Details
Group Display Name	SBC > Quality Stats
MIB Name	acPMModulePacketJitter
Description	Indicates the RTP packet jitter during the collection time interval.
Display Name	RTP jitter
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min <MIB Name>Min<PM Name>	Yes
Average <MIB Name>Average<PM Name>	Yes

PM Field	Details
Aggregation Support	No
MIB Version Support	Version 7.2
Additional Info	Not Applicable

SBC Other Stats

This section describes SBC Other Stats performance monitoring parameters.

acPMSBCMediaLegs

PM Field	Details
Group Display Name	SBC > Other Stats
MIB Name	acPMSBCMediaLegs
Description	Indicates the number of media (RTP) session resources currently utilized.
Display Name	Media Legs
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min <MIB Name>Min<PM Name>	Yes
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSBCTranscodingSessions

PM Field	Details
Group Display Name	SBC > Other Stats
MIB Name	acPMSBCTranscodingSessions

PM Field	Details
Description	Indicates the number of transcoding sessions
Display Name	Transcoding Sessions
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Gauge
Value <MIB Name>Val	No
Max <MIB Name>Max<PM Name>	Yes
Min <MIB Name>Min<PM Name>	Yes
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSBCRegisteredUsers

PM Field	Details
Group Display Name	SBC > Other Stats
MIB Name	acPMSBCRegisteredUsers
Description	Indicates the number of registered users. Increments for each registered user and decrements when they deregister.
Display Name	Registered Users
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min <MIB Name>Min<PM Name>	Yes
Average	Yes

PM Field	Details
<MIB Name>Average<PM Name>	
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSBCInAttemptedRegistrations

PM Field	Details
Group Display Name	SBC > Other Stats
MIB Name	acPMSBCInAttemptedRegistrations
Description	Indicates the number of incoming attempted SBC registrations.
Display Name	In Attempted Registrations
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCOutAttemptedRegistrations

PM Field	Details
Group Display Name	SBC > Other Stats
MIB Name	acPMSBCOutAttemptedRegistrations
Description	Indicates the number of outgoing attempted SBC registrations.
Display Name	Out Attempted Registrations

PM Field	Details
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCIPGroupInSuccessfulRegistrations

PM Field	Details
Group Display Name	IP Group > Other Stats
MIB Name	acPMSBCIPGroupInSuccessfulRegistrations
Description	Indicates the number of successful incoming registrations per IP Group.
Display Name	In Successful Registrations
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCOutSuccessfulRegistrations

PM Field	Details
Group Display Name	SBC > Other Stats
MIB Name	acPMSBCOutSuccessfulRegistrations
Description	Indicates the number of outgoing successful registrations.
Display Name	Out Successful Registrations
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

SBC Failure Stats

This section describes SBC Failure Stats performance monitoring parameters.

acPMSBCInUserDefinedFailures

PM Field	Details
Group Display Name	SBC > Failure Stats
MIB Name	acPMSBCInUserDefinedFailures<Rule Number_1-26>

PM Field	Details
Description	Indicates the number of incoming failure responses per SBC. This MIB lets you configure up to 26 user-defined Performance Monitoring (PM) SNMP MIB rules for SBC calls. Each rule represents a group of 6 MIBs that counts the number of specified SIP failure responses (e.g., SIP 403 and 504) and/or specified responses generated internally by the device (e.g., CAC limit reached or NER threshold crossed). The PMs can be configured to count the responses due to sent SIP INVITE or REGISTER (for SBC User Info and Accounts registrations) messages. In other words, these PMs only count calls that fail before they can be established. • The PMs only count original responses and not responses that you may have manipulated using Message Manipulation rules. For example, if you have configured a user-defined PM to count SIP 408 responses and you have a Message Manipulation rule that changes SIP 403 responses into SIP 408, the PM will not include these manipulated responses in its' count. The PMs consider incoming SIP CANCEL messages as SIP 487 responses. • The PMs don't count SIP BYE requests.
Display Name	In User Defined Failures <Rule Number_1-26>
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name><Rule Number_1-26>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCOutUserDefinedFailures

PM Field	Details
Group Display Name	SBC > Failure Stats
MIB Name	acPMSBCOutUserDefinedFailures<Rule Number_1-26>
Description	<p>Indicates the number of outgoing failure responses per SBC. This MIB lets you configure up to 26 user-defined Performance Monitoring (PM) SNMP MIB rules for SBC calls. Each rule represents a group of 6 MIBs that counts the number of specified SIP failure responses (e.g., SIP 403 and 504) and/or specified responses generated internally by the device (e.g., CAC limit reached or NER threshold crossed). The PMs can be configured to count the responses due to sent SIP INVITE or REGISTER (for SBC User Info and Accounts registrations) messages. In other words, these PMs only count calls that fail before they can be established.</p> <ul style="list-style-type: none"> • The PMs only count original responses and not responses that you may have manipulated using Message Manipulation rules. For example, if you have configured a user-defined PM to count SIP 408 responses and you have a Message Manipulation rule that changes SIP 403 responses into SIP 408, the PM will not include these manipulated responses in its' count. The PMs consider incoming SIP CANCEL messages as SIP 487 responses. • The PMs don't count SIP BYE requests.
Display Name	Out User Defined Failures <Rule Number_1-26>
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes

PM Field	Details
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

5 Gateway

Delete this text and replace it with your own content.

Gateway Stats

This section describes Gateway Stats performance monitoring parameters.

acPMSIPAttemptedCalls

PM Field	Details
Group Display Name	Gateway > Call Stats
MIB Name	acPMSIPAttemptedCalls
Description	Indicates the number of attempted calls (Index 1) during last interval.
Display Name	Tel to IP Call Attempts IP to Tel Call Attempts
Enabled in Factory Default PM Template	Yes
PM Type (Counter or Gauge)	Counter
Value <MIB Name>ValTel2IP <MIB Name>ValIP2Tel	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Tel2IP;IP2Tel

acPMSIPCallDuration

PM Field	Details
Group Display Name	Gateway > Call Stats
MIB Name	acPMSIPCallDuration
Description	Indicates the call duration of established calls during last interval.

PM Field	Details
Display Name	<ul style="list-style-type: none"> ■ Tel to IP Call Duration [sec] ■ IP to Tel Call Duration [sec]
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>MaxTel2IP <MIB Name>MaxIP2Tel	Yes
Min <MIB Name>MinTel2IP <MIB Name>MinIP2Tel	Yes
Average <MIB Name>AverageTel2IP <MIB Name>AverageIP2Tel	Yes
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Tel2IP;IP2Tel

acPMSIPEstablishedCallsTable

PM Field	Details
Group Display Name	Gateway > Call Stats
MIB Name	acPMSIPEstablishedCalls
Description	Indicates the number of established calls during last interval.
Display Name	<ul style="list-style-type: none"> ■ Tel to IP Established Calls ■ IP to Tel Established Calls
Enabled in Factory Default PM Template	Yes
PM Type (Counter or Gauge)	Counter
Value <MIB Name>VallTel2IP <MIB Name>VallIP2Tel	Yes
Max	No
Min	No

PM Field	Details
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Tel2IP;IP2Tel

acPMSIPFaxAttemptedCalls

PM Field	Details
Group Display Name	Gateway > Call Stats
MIB Name	acPMSIPFaxAttemptedCalls
Description	Indicates the number of attempted fax calls
Display Name	<ul style="list-style-type: none"> ■ Tel to IP Fax Call Attempts ■ IP-to-Tel Fax Call Attempts
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>ValTel2IP" <MIB Name>ValIP2Tel"	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Tel2IP;IP2Tel

acPMSIPFaxSuccessCalls

PM Field	Details
Group Display Name	Gateway > Call Stats
MIB Name	acPMSIPFaxSuccessCalls
Description	Indicates the number of successfully established fax calls

PM Field	Details
Display Name	<ul style="list-style-type: none"> ■ Tel to IP Successful Fax Calls ■ IP to Tel Successful Fax Calls
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>ValTel2IP <MIB Name>ValIP2Tel	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Tel2IP;IP2Tel

acPMSIPForwardedCalls

PM Field	Details
Group Display Name	Gateway > Call Stats
MIB Name	acPMSIPForwardedCalls
Description	Indicates the number of calls that were terminated due to a call forward during last interval.
Display Name	<ul style="list-style-type: none"> ■ Tel to IP Calls Terminated due to Forward ■ IP to Tel Calls Terminated due to Forward
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>ValTel2IP" <MIB Name>ValIP2Tel	Yes
Max	No
Min	No
Average	No

PM Field	Details
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Tel2IP;IP2Tel

Gateway Call Failures

This section describes the Gateway Call Failures performance monitoring parameters.

acPMSIPNoMatchCalls

PM Field	Details
Group Display Name	Gateway > Call Failures
MIB Name	acPMSIPNoMatchCalls
Description	Indicates the number of calls that failed due to mismatched media server capabilities for calls, during last interval.
Display Name	<ul style="list-style-type: none"> ■ Tel to IP Failed Calls due to No Matched Capabilities ■ IP to Tel Failed Calls due to No Matched Capabilities
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>ValTel2IP <MIB Name>ValIP2Tel	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Tel2IP;IP2Tel

acPMSIPBusyCalls

PM Field	Details
Group Display Name	Gateway > Call Failures

PM Field	Details
MIB Name	acPMSIPBusyCalls
Description	Indicates the number of calls that failed as a result of a busy line, during last interval.
Display Name	<ul style="list-style-type: none"> ■ Tel to IP Calls Terminated due to a Busy Line ■ IP to Tel Calls Terminated due to a Busy Line
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>ValTel2IP <MIB Name>ValIP2Tel	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Tel2IP;IP2Tel

acPMSIPNoAnswerCalls

PM Field	Details
Group Display Name	Gateway > Call Failures
MIB Name	acPMSIPNoAnswerCalls
Description	Indicates the number of calls that weren't answered during last interval.
Display Name	<ul style="list-style-type: none"> ■ Tel to IP Calls Terminated due to No Answer ■ IP to Tel Calls Terminated due to No Answer
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>ValTel2IP <MIB Name>ValIP2Tel	Yes

PM Field	Details
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Tel2IP;IP2Tel

acPMSIPNoRouteCalls

PM Field	Details
Group Display Name	Gateway > Call Failures
MIB Name	acPMSIPNoRouteCalls
Description	Indicates the number of calls whose destinations weren't found during last interval.
Display Name	<ul style="list-style-type: none"> ■ Tel to IP Failed Calls due to No Route ■ IP to Tel Failed Calls due to No Route
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>ValTel2IP <MIB Name>ValIP2Tel	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Tel2IP;IP2Tel

acPMSIPFailCallsTable

PM Field	Details
Group Display Name	Gateway > Call Failures
MIB Name	acPMSIPFailCalls

PM Field	Details
Description	This counter is incremented as a result of calls that fail due to reasons not covered by the other counters during last interval.
Display Name	<ul style="list-style-type: none"> ■ Tel to IP Failed Calls due to Other Reasons ■ IP to Tel Failed Calls due to Other Reasons
Enabled in Factory Default PM Template	Yes
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Tel2IP;IP2Tel

acPMSIPNoResourcesCalls

PM Field	Details
Group Display Name	Gateway > Call Failures
MIB Name	acPMSIPNoResourcesCalls
Description	Indicates the number of calls that failed due to unavailable resources or a media server lock during last interval.
Display Name	<ul style="list-style-type: none"> ■ Tel to IP Failed Calls due to No Resources ■ IP to Tel Failed Calls due to No Resources
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>ValTel2IP <MIB Name>ValIP2Tel	Yes

PM Field	Details
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Tel2IP;IP2Tel

6 IP Group

This section describes the IP Group performance monitoring parameters.

IP Group Call Stats

This section describes the IP Group Call Stats.

acPMSIIPGroupInviteDialogs

PM Field	Details
Group Display Name	IP Group > Call Stats
MIB Name	acPMSIIPGroupInviteDialogs
Description	Indicates the number of INVITE dialogs per IP Group.
Display Name	Invite Dialogs
Enabled in Factory Default PM Template	Yes
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min <MIB Name>Min<PM Name>	Yes
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSIIPGroupInInviteDialogsTable

PM Field	Details
Group Display Name	IP Group > Call Stats
MIB Name	acPMSIIPGroupInInviteDialogs
Description	Indicates the number of incoming calls (SIP INVITE) per IP Group
Display Name	In Invite Dialogs

PM Field	Details
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min <MIB Name>Min<PM Name>	Yes
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSIPIPGroupOutInviteDialogs

PM Field	Details
Group Display Name	IP Group > Call Stats
MIB Name	acPMSIPIPGroupOutInviteDialogs
Description	Indicates the number of outgoing calls (SIP INVITE) per IP Group.
Display Name	Out Invite Dialogs
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min <MIB Name>Min<PM Name>	Yes
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSBCIPGroupAsr

PM Field	Details
Group Display Name	IP Group > Call Stats
MIB Name	acPMSBCIPGroupAsr
Description	Indicates ASR per IP Group.
Display Name	ASR
Enabled in Factory Default PM Template	Yes
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min <MIB Name>Min<PM Name>	Yes
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	No
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSBCIPGroupNer

PM Field	Details
Group Display Name	IP Group > Call Stats
MIB Name	acPMSBCIPGroupNer
Description	Indicates NER per IP Group
Display Name	NER
Enabled in Factory Default PM Template	Yes
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min <MIB Name>Min<PM Name>	Yes

PM Field	Details
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	No
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSBCIPGroupAcd

PM Field	Details
Group Display Name	IP Group > Call Stats
MIB Name	acPMSBCIPGroupAcd
Description	Indicates ACD per IP Group.
Display Name	ACD
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min <MIB Name>Min<PM Name>	Yes
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	No
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSBCIPGroupInCaps

PM Field	Details
Group Display Name	IP Group > Call Stats
MIB Name	acPMSBCIPGroupInCaps
Description	Indicates the number of CPS for incoming SBC calls per IP Group

PM Field	Details
Display Name	IN CAPS
Enabled in Factory Default PM Template	Yes
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min	No
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSBCIPGroupOutCaps

PM Field	Details
Group Display Name	IP Group > Call Stats
MIB Name	acPMSBCIPGroupOutCaps
Description	Indicates the number of CPS for outgoing SBC calls per IP Group.
Display Name	OUT CAPS
Enabled in Factory Default PM Template	Yes
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min	No
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSBCIPGroupInAttemptedCalls

PM Field	Details
Group Display Name	IP Group > Call Stats
MIB Name	acPMSBCIPGroupInAttemptedCalls
Description	Indicates the number of attempted incoming SBC calls per IP Group.
Display Name	In Attempted Calls
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCIPGroupOutAttemptedCalls

PM Field	Details
Group Display Name	IP Group > Call Stats
MIB Name	acPMSBCIPGroupOutAttemptedCalls
Description	Indicates the number of attempted outgoing SBC calls per IP Group.
Display Name	Out Attempted Calls
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No

PM Field	Details
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCIPGroupInEstablishedCalls

PM Field	Details
Group Display Name	IP Group > Call Stats
MIB Name	acPMSBCIPGroupInEstablishedCalls
Description	Indicates the number of incoming established SBC calls per IP Group.
Display Name	In Established Calls
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCIPGroupOutEstablishedCalls

PM Field	Details
Group Display Name	IP Group > Call Stats
MIB Name	acPMSBCIPGroupOutEstablishedCalls
Description	Indicates the number of outgoing established SBC calls per IP Group.
Display Name	Out Established Calls
Enabled in Factory Default PM Template	No

PM Field	Details
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCIPGroupMediaBrokenConnectionCalls

PM Field	Details
Group Display Name	IP Group > Call Stats
MIB Name	acPMSBCIPGroupMediaBrokenConnectionCalls
Description	Indicates the number of established calls per IP Group that were disconnected because no RTP packets (media) were received for a user-defined period (configured by the BrokenConnectionEventTimeout parameter).
Display Name	Media Broken Connection Calls
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCIPGroupInShortCalls

PM Field	Details
Group Display Name	IP Group > Call Stats
MIB Name	acPMSBCIPGroupInShortCalls
Description	Indicates the number of incoming calls per IP Group, whose duration was less than the value configured by the ShortCallSeconds parameter.
Display Name	In Short Calls
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCIPGroupOutShortCallsTable

PM Field	Details
Group Display Name	IP Group > Call Stats
MIB Name	acPMSBCIPGroupOutShortCalls
Description	Indicates the number of outgoing calls per IP Group, whose duration was less than the value configured by the ShortCallSeconds parameter.
Display Name	Out Short Calls
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes

PM Field	Details
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

IP Group Other Stats

This section describes IP Group Other Stats performance monitoring parameters.

acPMSIIPGroupSubscribeDialogs

PM Field	Details
Group Display Name	IP Group > Other Stats
MIB Name	acPMSIIPGroupSubscribeDialogs
Description	Indicates the number of all SUBSCRIBE dialogs (initiated by SIP:SUBSCRIBE) currently being handled by the SBC, per IP Group.
Display Name	Subscribe Dialogs
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min <MIB Name>Min<PM Name>	Yes
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSIIPGroupInSubscribeDialogs

PM Field	Details
Group Display Name	IP Group > Other Stats
MIB Name	acPMSIIPGroupInSubscribeDialogs
Description	Indicates the number of incoming SUBSCRIBE dialogs per IP Group.
Display Name	In Subscribe Dialogs
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min <MIB Name>Min<PM Name>	Yes
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSIIPGroupOutSubscribeDialogsTable

PM Field	Details
Group Display Name	IP Group > Other Stats
MIB Name	acPMSIIPGroupOutSubscribeDialogs
Description	Indicates the number of outgoing SUBSCRIBE dialogs per IP Group.
Display Name	Out Subscribe Dialogs
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min	Yes

PM Field	Details
<MIB Name>Min<PM Name>	
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSIIPGroupDialogsTable

PM Field	Details
Group Display Name	IP Group > Other Stats
MIB Name	acPMSIIPGroupDialogs
Description	Indicates the number of all dialogs currently being handled by the SBC per IP Group.
Display Name	Dialogs
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Gauge
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSBCIPGroupInAttemptedRegistrations

PM Field	Details
Group Display Name	IP Group > Other Stats
MIB Name	acPMSBCIPGroupInAttemptedRegistrations

PM Field	Details
Description	Indicates the number of incoming attempted user registrations per IP Group.
Display Name	In Attempted Registrations
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCIPGroupOutAttemptedRegistrations

PM Field	Details
Group Display Name	IP Group > Other Stats
MIB Name	acPMSBCIPGroupOutAttemptedRegistrations
Description	Indicates the number of outgoing attempted user registrations per IP Group.
Display Name	Out Attempted Registrations
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCIPGroupInSuccessfulRegistrations

PM Field	Details
Group Display Name	IP Group > Other Stats
MIB Name	acPMSBCIPGroupInSuccessfulRegistrations
Description	Indicates the number of successful incoming registrations per IP Group.
Display Name	In Successful Registrations
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCIPGroupOutSuccessfulRegistrations

PM Field	Details
Group Display Name	IP Group > Other Stats
MIB Name	acPMSBCIPGroupOutSuccessfulRegistrations
Description	Indicates the number of successful outgoing registrations per IP Group.
Display Name	Out Successful Registrations
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No

PM Field	Details
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

IP Group Failure Stats

This section describes IP Group Failure Stats performance monitoring parameters.

acPMSBCIPGroupInUserDefinedFailures

PM Field	Details
Group Display Name	IP Group > Failure Stats
MIB Name	acPMSBCIPGroupInUserDefinedFailures<Rule Number_1-26>
Description	Indicates the number of incoming failure responses per IP Group. This MIB lets you configure up to 26 user-defined Performance Monitoring (PM) SNMP MIB rules for SBC calls. Each rule represents a group of 6 MIBs that counts the number of specified SIP failure responses (e.g., SIP 403 and 504) and/or specified responses generated internally by the device (e.g., CAC limit reached or NER threshold crossed). The PMs can be configured to count the responses due to sent SIP INVITE or REGISTER (for SBC User Info and Accounts registrations) messages. In other words, these PMs only count calls that fail before they can be established. • The PMs only count original responses and not responses that you may have manipulated using Message Manipulation rules. For example, if you have configured a user-defined PM to count SIP 408 responses and you have a Message Manipulation rule that changes SIP 403 responses into SIP 408, the PM will not include these manipulated responses in its' count. The PMs consider incoming SIP CANCEL messages as SIP 487 responses. • The PMs don't count SIP BYE requests.
Display Name	In User Defined Failures <Rule Number_1-26>
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value	Yes

PM Field	Details
<MIB Name><Rule Number_1-26>Val	
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCIPGroupOutUserDefinedFailures

PM Field	Details
Group Display Name	IP Group > Failure Stats
MIB Name	acPMSBCIPGroupOutUserDefinedFailures<Rule Number_1-26>
Description	<p>Indicates the number of outgoing failure responses per IP Group. This MIB lets you configure up to 26 user-defined Performance Monitoring (PM) SNMP MIB rules for SBC calls. Each rule represents a group of 6 MIBs that counts the number of specified SIP failure responses (e.g., SIP 403 and 504) and/or specified responses generated internally by the device (e.g., CAC limit reached or NER threshold crossed). The PMs can be configured to count the responses due to sent SIP INVITE or REGISTER (for SBC User Info and Accounts registrations) messages. In other words, these PMs only count calls that fail before they can be established. The PMs only count original responses and not responses that you may have manipulated using Message Manipulation rules. For example, if you have configured a user-defined PM to count SIP 408 responses and you have a Message Manipulation rule that changes SIP 403 responses into SIP 408, the PM will not include these manipulated responses in its' count. The PMs consider incoming SIP CANCEL messages as SIP 487 responses. • The PMs don't count SIP BYE requests.</p>
Display Name	Out User Defined Failures <Rule Number_1-26>
Enabled in Factory Default PM Template	No

PM Field	Details
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

7 Trunk Group

This section describes the Trunk Group performance monitoring parameters.

Trunk Group Call Stats

This section describes Trunk Group Call Stats performance monitoring statistics.

acPMSIPTrunkGroupCallDuration

PM Field	Details
Group Display Name	Trunk Group > Call Stats
MIB Name	acPMSIPTrunkGroupCallDuration
Description	Indicates the average call duration (in seconds) of calls per trunk group.
Display Name	Call Duration (sec)
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min <MIB Name>Min<PM Name>	Yes
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Not Applicable

Trunk Group Call Failures

Delete this text and replace it with your own content.

acPMSIPTrunkGroupNoResourcesCalls

PM Field	Details
Group Display Name	Trunk Group > Call Failures
MIB Name	acPMSIPTrunkGroupNoResourcesCalls

PM Field	Details
Description	Indicates the number of calls that could not be established due to unavailable device resources (e.g., no free channels) per Trunk Group.
Display Name	No Resources Calls
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Not Applicable

Trunk Group Trunk Stats

This section describes Trunk Group Stats performance monitoring parameters.

acPMSIPTrunkGroupUtilization

PM Field	Details
Group Display Name	Trunk Group > Trunk Stats
MIB Name	acPMSIPTrunkGroupUtilization
Description	Indicates the number of channels currently in use (busy) per trunk group. For example, if the device has 240 channels and the threshold is set to 106, if the number of concurrent busy channels exceeds 106, this threshold alarm is sent. Note that if a trunk is in LOF state, this MIB counts only the channels that are used.
Display Name	Utilization (channels)
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Gauge

PM Field	Details
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min <MIB Name>Min<PM Name>	Yes
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSIPTTrunkGroupPercentageUtilization

PM Field	Details
Group Display Name	Trunk Group > Trunk Stats
MIB Name	acPMSIPTTrunkGroupPercentageUtilization
Description	Indicates the percentage (, if the number of concurrent busy channels exceeds 90 (i.e., 180 channels), this threshold alarm is sent.
Display Name	Utilization (%)
Enabled in Factory Default PM Template	Yes
PM Type (Counter or Gauge)	Gauge
Value <MIB Name>Val	No
Max <MIB Name>Max<PM Name>	Yes
Min <MIB Name>Min<PM Name>	Yes
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSIPTrunkGroupAllTrunksBusy

PM Field	Details
Group Display Name	Trunk Group > Trunk Stats
MIB Name	acPMSIPTrunkGroupAllTrunksBusy
Description	Indicates the duration (in seconds) that all channels of a specific trunk group were concurrently busy, if this scenario occurs. For example, if trunk group #3 has 200 channels and all these were concurrently busy for 60 seconds, then this MIB will display 60 for this trunk group. Note that trunks that are out of service or not configured (set to NONE) are considered "busy" in this calculation.
Display Name	All Trunks Busy Time (sec)
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSIPTrunkGroupAllTrunksBusyPercentage

PM Field	Details
Group Display Name	Trunk Group > Trunk Stats
MIB Name	acPMSIPTrunkGroupAllTrunksBusyPercentage
Description	Indicates the percentage ((i.e., 6 minutes / 15 minutes * 100). In other words, all trunks of the trunk group were simultaneously busy for 40 of the time during this 15-minute interval.
Display Name	All Trunks Busy (%)
Enabled in Factory Default PM Template	Yes

PM Field	Details
PM Type (Counter or Gauge)	Gauge
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	No
MIB Version Support	Version 7.2
Additional Info	Not Applicable

8 SRD

Delete this text and replace it with your own content.

SRD Call Stats

This section describes SRD Call Stats Performance Monitoring parameters.

acPMSBCSrdAsr

PM Field	Details
Group Display Name	SRD > Call Stats
MIB Name	acPMSBCSrdAsr
Description	Indicates ASR per SRD.
Display Name	ASR
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min <MIB Name>Min<PM Name>	Yes
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	No
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSBCSrdNer

PM Field	Details
Group Display Name	SRD > Call Stats
MIB Name	acPMSBCSrdNer
Description	Indicates NER per SRD.
Display Name	NER
Enabled in Factory Default PM Template	No

PM Field	Details
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min <MIB Name>Min<PM Name>	Yes
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	No
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSBCSrdAcCd

PM Field	Details
Group Display Name	SBC > Call Stats
MIB Name	acPMSBCSrdAcCd
Description	Indicates ACD per SRD.
Display Name	ACD
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min <MIB Name>Min<PM Name>	Yes
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	No
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSIPSRDInviteDialogs

PM Field	Details
Group Display Name	SRD > Call Stats
MIB Name	acPMSIPSRDInviteDialogs
Description	Indicates the number of all calls (initiated by SIP:INVITE) currently being handled by the SBC per SRD.
Display Name	Invite Dialogs
Enabled in Factory Default PM Template	Yes
PM Type (Counter or Gauge)	Gauge
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSBCSrdInCaps

PM Field	Details
Group Display Name	SRD > Call Stats
MIB Name	acPMSBCSrdInCaps
Description	Indicates the number of CPS for incoming SBC calls per SRD.
Display Name	IN CAPS
Enabled in Factory Default PM Template	Yes
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min	No

PM Field	Details
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSBCOutCaps

PM Field	Details
Group Display Name	SBC > Call Stats
MIB Name	acPMSBCOutCaps
Description	Indicates the number of outgoing calls per second.
Display Name	OUT CAPS
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Gauge
Value	No
Max <MIB Name>Max<PM Name>	Yes
Min	No
Average <MIB Name>Average<PM Name>	Yes
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSBCSRDInAttemptedCalls

PM Field	Details
Group Display Name	SRD > Call Stats
MIB Name	acPMSBCSRDInAttemptedCalls
Description	Indicates the number of incoming attempted calls per SRD.

PM Field	Details
Display Name	In Attempted Calls
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCSRDOutAttemptedCalls

PM Field	Details
Group Display Name	SRD > Call Stats
MIB Name	acPMSBCSRDOutAttemptedCalls
Description	Indicates the number of outgoing attempted calls per SRD.
Display Name	acPMSBCSRDOutAttemptedCalls
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCInEstablishedCalls

PM Field	Details
Group Display Name	SBC > Call Stats
MIB Name	acPMSBCInEstablishedCalls
Description	Indicates the total number of incoming established SBC calls.
Display Name	In Established Calls
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCSRDOutEstablishedCallsTable

PM Field	Details
Group Display Name	
MIB Name	acPMSBCSRDOutEstablishedCalls
Description	Indicates the number of outgoing calls per SRD that were established.
Display Name	Out Established Calls

PM Field	Details
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max <MIB Name>Max<PM Name>	No
Min <MIB Name>Min<PM Name>	No
Average <MIB Name>Average<PM Name>	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCSRDMediaBrokenConnectionCalls

PM Field	Details
Group Display Name	SRD > Call Stats
MIB Name	acPMSBCSRDMediaBrokenConnectionCalls
Description	Indicates the number of established calls per SRD that were disconnected because no RTP packets (media) were received for a user-defined period (configured by the BrokenConnectionEventTimeout parameter).
Display Name	Media Broken Connection Calls
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200

PM Field	Details
Additional Info	Not Applicable

acPMSBCSRDInShortCalls

PM Field	Details
Group Display Name	SRD > Call Stats
MIB Name	acPMSBCSRDInShortCalls
Description	Indicates the number of incoming calls per SRD, whose duration was less than the value configured by the ShortCallSeconds parameter.
Display Name	In Short Calls
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCSRDOutShortCalls

PM Field	Details
Group Display Name	SRD > Call Stats
MIB Name	acPMSBCSRDOutShortCalls
Description	Indicates the number of outgoing calls per SRD, whose duration was less than the value configured by the ShortCallSeconds parameter.
Display Name	Out Short Calls
Enabled in Factory Default PM Template	No

PM Field	Details
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

SRD Other Stats

This section describes SRD Other Stats Performance Monitoring parameters.

acPMSIPSRDDialogsTable

PM Field	Details
Group Display Name	SRD > Other Stats
MIB Name	acPMSIPSRDDialogs
Description	Indicates the number of all dialogs currently being handled by the SBC per SRD.
Display Name	Dialogs
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Gauge
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2
Additional Info	Not Applicable

acPMSBCSRDIInAttemptedRegistrations

PM Field	Details
Group Display Name	SRD > Other Stats
MIB Name	acPMSBCSRDIInAttemptedRegistrations
Description	Indicates the number of incoming attempted user registrations per SRD.
Display Name	In Attempted Registrations
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCSRDOutAttemptedRegistrations

PM Field	Details
Group Display Name	SRD > Other Stats
MIB Name	acPMSBCSRDOutAttemptedRegistrations
Description	Indicates the number of outgoing attempted user registrations per SRD.
Display Name	Out Attempted Registrations
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max <MIB Name>Max<PM Name>	No
Min <MIB Name>Min<PM Name>	No

PM Field	Details
Average <MIB Name>Average<PM Name>	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCSRDInSuccessfulRegistrationsTable

PM Field	Details
Group Display Name	SRD > Other Stats
MIB Name	acPMSBCSRDInSuccessfulRegistrations
Description	Indicates the number of incoming successful registrations per SRD.
Display Name	acPMSBCSRDInSuccessfulRegistrations
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCSRDOutSuccessfulRegistrationsTable

PM Field	Details
Group Display Name	SRD > Other Stats
MIB Name	acPMSBCSRDOutSuccessfulRegistrations
Description	Indicates the number of outgoing successful registrations per SRD.
Display Name	Out Successful Registrations

PM Field	Details
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name>Val	Yes
Max <MIB Name>Max<PM Name>	No
Min <MIB Name>Min<PM Name>	No
Average <MIB Name>Average<PM Name>	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

SRD Failure Stats

This section describes SRD Failure Stats Performance Monitoring parameters.

acPMSBCSRDInUserDefinedFailures

PM Field	Details
Group Display Name	SRD > Failure Stats
MIB Name	acPMSBCSRDInUserDefinedFailures<Rule Number_1-26>

PM Field	Details
Description	Indicates the number of incoming failure responses per SRD. This MIB lets you configure up to 26 user-defined Performance Monitoring (PM) SNMP MIB rules for SBC calls. Each rule represents a group of 6 MIBs that counts the number of specified SIP failure responses (e.g., SIP 403 and 504) and/or specified responses generated internally by the device (e.g., CAC limit reached or NER threshold crossed). The PMs can be configured to count the responses due to sent SIP INVITE or REGISTER (for SBC User Info and Accounts registrations) messages. In other words, these PMs only count calls that fail before they can be established. • The PMs only count original responses and not responses that you may have manipulated using Message Manipulation rules. For example, if you have configured a user-defined PM to count SIP 408 responses and you have a Message Manipulation rule that changes SIP 403 responses into SIP 408, the PM will not include these manipulated responses in its' count. The PMs consider incoming SIP CANCEL messages as SIP 487 responses. • The PMs don't count SIP BYE requests.
Display Name	In User Defined Failures <Rule Number_1-26>
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name><Rule Number_1-26>Val	Yes
Max	No
Min	No
Average	No
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

acPMSBCSRDOutUserDefinedFailures

PM Field	Details
Group Display Name	SRD > Failure Stats
MIB Name	acPMSBCSRDOutUserDefinedFailures<Rule Number_1-26>
Description	<p>Indicates the number of outgoing failure responses per SRD. This MIB lets you configure up to 26 user-defined Performance Monitoring (PM) SNMP MIB rules for SBC calls. Each rule represents a group of 6 MIBs that counts the number of specified SIP failure responses (e.g., SIP 403 and 504) and/or specified responses generated internally by the device (e.g., CAC limit reached or NER threshold crossed). The PMs can be configured to count the responses due to sent SIP INVITE or REGISTER (for SBC User Info and Accounts registrations) messages. In other words, these PMs only count calls that fail before they can be established. • The PMs only count original responses and not responses that you may have manipulated using Message Manipulation rules. For example, if you have configured a user-defined PM to count SIP 408 responses and you have a Message Manipulation rule that changes SIP 403 responses into SIP 408, the PM will not include these manipulated responses in its' count. The PMs consider incoming SIP CANCEL messages as SIP 487 responses. • The PMs don't count SIP BYE requests.</p>
Display Name	Out User Defined Failures <Rule Number_1-26>
Enabled in Factory Default PM Template	No
PM Type (Counter or Gauge)	Counter
Value <MIB Name><Rule Number_1-26>Val	Yes
Max <MIB Name>Max<PM Name>	No
Min <MIB Name>Min<PM Name>	No
Average <MIB Name>Average<PM Name>	No

PM Field	Details
Aggregation Support	Yes
MIB Version Support	Version 7.2.200
Additional Info	Not Applicable

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