Cisco ASR 5000 Series SNMP MIB Reference

Version 10.0

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About this Guide

This document pertains to features and functionality that run on and/or that are related to the Cisco® ASR 5000 Chassis, formerly the Starent Networks ST40.

Conventions Used

The following tables describe the conventions used throughout this documentation.

Icon	Notice Type	Description
	Information Note	Provides information about important features or instructions.
	Caution	Alerts you of potential damage to a program, device, or system.
	Warning	Alerts you of potential personal injury or fatality. May also alert you of potential electrical hazards.
	Electro-Static Discharge (ESD)	Alerts you to take proper grounding precautions before handling a product.

Typeface Conventions	Description
Text represented as a `screen display`	This typeface represents displays that appear on your terminal screen, for example: `Login:`
Text represented as **`commands`**	This typeface represents commands that you enter, for example: **`show ip access-list`** This document always gives the full form of a command in lowercase letters. Commands are not case sensitive.
Text represented as a **`command`** *`variable`*	This typeface represents a variable that is part of a command, for example: **`show card`** *`slot_number`* slot_number is a variable representing the desired chassis slot number.
Text represented as menu or sub-menu names	This typeface represents menus and sub-menus that you access within a software application, for example: Click the File menu, then click New

Command Syntax Conventions	Description
{ **`keyword`** or *`variable`* }	Required keywords and variables are surrounded by grouped brackets. Required keywords and variables are those components that are required to be entered as part of the command syntax.

Command Syntax Conventions	Description
[**keyword** or *variable*]	Optional keywords or variables, or those that a user may or may not choose to use, are surrounded by square brackets.
|	With some commands there may be a group of variables from which the user chooses one. These are called alternative variables and are documented by separating each variable with a vertical bar (also known as a pipe filter). Pipe filters can be used in conjunction with required or optional keywords or variables. For example: **{ nonce | timestamp }** OR [**count** *number_of_packets* | **size** *number_of_bytes*]

Contacting Customer Support

Use the information in this section to contact customer support.

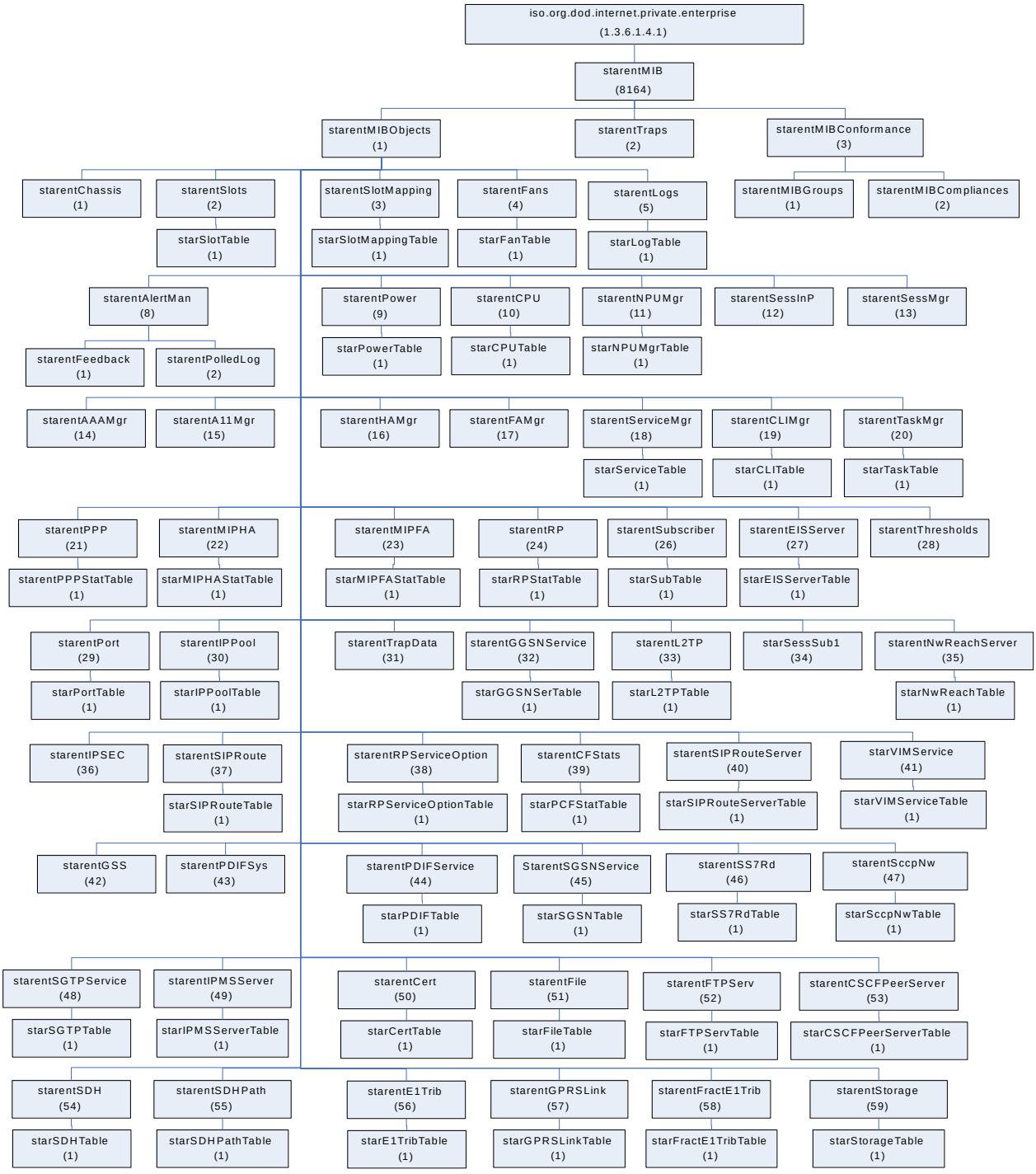
For New Customers: Refer to the support area of http://www.cisco.com for up-to-date product documentation or to submit a service request. A valid username and password is required to this site. Please contact your local sales or service representative for additional information.

For Existing Customers with support contracts through Starent Networks: Refer to the support area of https://support.starentnetworks.com/ for up-to-date product documentation or to submit a service request. A valid username and password is required to this site. Please contact your local sales or service representative for additional information.

IMPORTANT: For warranty and repair information, please be sure to include the Return Material Authorization (RMA) tracking number on the outside of the package.

Chapter 1
Starent Chassis MIB

The following figure displays the hierarchical structure of the management information base (MIB) for the core platform.


iso.org.dod.internet.private.enterprise
(1.3.6.1.4.1)
starentMIB
(8164)
starentMIBObjects
(1)
starentTraps
(2)
starentMIBConformance
(3)
starentChassis
(1)
starentSlots
(2)
starSlotTable
(1)
starentSlotMapping
(3)
starSlotMappingTable
(1)
starentFans
(4)
starFanTable
(1)
starentLogs
(5)
starLogTable
(1)
starentMIBGroups
(1)
starentMIBCompliances
(2)
starentAlertMan
(8)
starentFeedback
(1)
starentPolledLog
(2)
starentPower
(9)
starPowerTable
(1)
starentCPU
(10)
starCPUTable
(1)
starentNPUMgr
(11)
starNPUMgrTable
(1)
starentSessInP
(12)
starentSessMgr
(13)
starentAAAMgr
(14)
starentA11Mgr
(15)
starentHAMgr
(16)
starentFAMgr
(17)
starentServiceMgr
(18)
starServiceTable
(1)
starentCLIMgr
(19)
starCLITable
(1)
starentTaskMgr
(20)
starTaskTable
(1)
starentPPP
(21)
starentPPPStatTable
(1)
starentMIPHA
(22)
starMIPHAStatTable
(1)
starentMIPFA
(23)
starMIPFAStatTable
(1)
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(24)
starRPStatTable
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(26)
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(28)
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(30)
starIPPoolTable
(1)
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(31)
starentGGSNService
(32)
starGGSNSerTable
(1)
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(33)
starL2TPTable
(1)
starSessSub1
(34)
starentNwReachServer
(35)
starNwReachTable
(1)
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(36)
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(37)
starSIPRouteTable
(1)
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(38)
starRPServiceOptionTable
(1)
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(39)
starPCFStatTable
(1)
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(40)
starSIPRouteServerTable
(1)
starVIMService
(41)
starVIMServiceTable
(1)
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(42)
starentPDIFSys
(43)
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(44)
starPDIFTable
(1)
StarentSGSNService
(45)
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(1)
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(46)
starSS7RdTable
(1)
starentSccpNw
(47)
starSccpNwTable
(1)
starentSGTPService
(48)
starSGTPTable
(1)
starentIPMSServer
(49)
starIPMSServerTable
(1)
starentCert
(50)
starCertTable
(1)
starentFile
(51)
starFileTable
(1)
starentFTPServ
(52)
starFTPServTable
(1)
starentCSCFPeerServer
(53)
starCSCFPeerServerTable
(1)
starentSDH
(54)
starSDHTable
(1)
starentSDHPath
(55)
starSDHPathTable
(1)
starentE1Trib
(56)
starE1TribTable
(1)
starentGPRSLink
(57)
starGPRSLinkTable
(1)
starentFractE1Trib
(58)
starFractE1TribTable
(1)
starentStorage
(59)
starStorageTable
(1)

MIB Textual Conventions

The following are the supported MIB Objects and Notifications. Not all entries are supported on all platforms. Some may return a different output than expected.

Object: **StarentSlotType**

Object ID: N/A

Syntax: Describes the type of a slot. Each slot in the chassis is build to contain specific type(s) of cards. Only a card of one of the appropriate types can be put into a specific slot.

Enumeration:
unknown(1)
pactac(2)
spc(3)
lc(4)
rcc(5)
spio(6)

Object: **StarentCardType**

Object ID: N/A

Description: Describes the type of a card. Each type represents a physically different card which would have a unique part number.

Syntax: Integer

Enumeration:
none(1)
unknown(2)
spc(3)
pac(4)
spio(5)
rcc(6)
lceth(7)
lcgeth(8)
lcds3
tac(10)
Icoc3(11)
Icoc12(12)

smc(13)
psc(14)
lcqgeth(15)
lctgeth(16)
vmc(17)
vpc(18)
vlceth1p(19)

Object: StarentVersionNum

Object ID: N/A

Description: Contains the system version identification string.

Syntax: Octet String (0.. 256)

Object: StarRelayState

Object ID: N/A

Description: The state of a Central Office (CO) relay.

Syntax: Integer

Enumeration:
off(1)
on(2)
unknown(3)

Object: StarLongDurTimeoutAction

Object ID: N/A

Description: The action taken by the system upon detection of a long-duration session.

Syntax: INTEGER

Enumeration:
unknown(0)
detection(1)
disconnection(2)
notapplicable(3)
dormantdisconnection(4)
dormantdetection(5)

Object:	**StarShortName**
Object ID:	N/A
Description:	short identification string. Follows the same conventions as the DisplayString TEXTUAL-CONVENTION.
Syntax:	Octet String (1..32)

Object:	**StarShortID**
Object ID:	N/A
Description:	An abbreviated form for identifying a service, composed of the first 8 characters of the context name, and the first 8 characters of a service name, separated by (:)
Syntax:	OCTET STRING(1..17)

Object:	**StarMediumID**
Object ID:	N/A
Description:	An abbreviated form for identifying a context-specific object, composed of the first 8 characters of the context name, and the first 16 characters of the object name, separated by (:)
Syntax:	OCTET STRING (SIZE (1..25))

Object:	**StarQOSTPAction**
Object ID:	N/A
Description:	Traffic Policing Action
Syntax:	INTEGER
Enumeration:	unknown(0) notapplicable(1) transmit(2) drop(3) loweripprecedence(4)

Object:	**StarOSPFNeighborState**
Object ID:	N/A

Description:	OSPF Neighbor State
Syntax:	INTEGER
Enumeration:	unknown(0), down(1), attempt(2), init(3), twoway(4), exstart(5), exchange(6), loading(7), full(8)

starentMIB(8164).starentMIBObjects(1).starentChassis(1)

Object: starChassisCriticalCO

Object ID:	enterprises.8164.1.1.1
Description:	The current state of the Critical Central Office (CO) relay.
Syntax:	StarRelayState
Access:	Read-only

Object: starChassisMajorCO

Object ID:	enterprises.8164.1.1.2
Description:	The current state of the Major Central Office (CO) relay.
Syntax:	StarRelayState
Access:	Read-only

Object: starChassisMinorCO

Object ID:	enterprises.8164.1.1.3
Description:	

The current state of the Minor Central Office (CO) relay.

Syntax: StarRelayState

Access: Read-only

Object: starChassisAction

Object ID: enterprises.8164.1.1.5

Description: Trigger to perform certain system-wide operations. noaction (1) performs no operation. It is the normal value received when this attribute is read. testled (2) triggers a test of all of the LEDs in the system. aco (3) triggers the Alarm Cut-Off, which shuts off all of the Central Office (CO) audible/visual relays. reset (4) triggers a system-wide restart. It will completely disrupt service on the device.

Syntax: Integer

Access: Read-write

Enumeration: noaction(1)
testled(2)
aco(3)
reset(4)

Object: starTimeTicks

Object ID: enterprises.8164.1.1.6

Description: The number of system clock ticks since the last system Epoch. One system clock tick is 10 milliseconds.

Syntax: Unsigned32

Access: Read-only

Object: starChassisAudibleAlarm

Object ID: enterprises.8164.1.1.7

Description: The current state of the chassis Audible Alarm.

Syntax: StarRelayState

Access: Read-only

Object:	starChassisUTCTime
Object ID:	enterprises.8164.1.1.8
Description:	The current time on the chassis, in UTC format
Syntax:	DateAndTime
Access:	Read-only

Object:	starChassisLocalTime
Object ID:	enterprises.8164.1.1.9
Description:	The current time on the chassis, converted to the local time zone
Syntax:	DateAndTime
Access:	Read-only

Object:	starChassisType
Object ID:	enterprises.8164.1.1.10
Description:	The physical chassis type
Syntax:	Integer
Access:	Read-only
Enumeration:	unknown(0) ST16(1) ST40(2) XT2(3) st20(4)

Object:	starChassisDescription
Object ID:	enterprises.8164.1.1.11
Description:	Chassis description
Syntax:	DisplayString
Access:	

Read-Only

Object: starChassisSWRevision

Object ID: enterprises.8164.1.1.12

Description: Software revision

Syntax: DisplayString

Access: Read-Only

starChassisPeakMemoryUsage

enterprises.8164.1.1.13

Description: The system level peak memory usage, in kilobytes, rounded down (i.e. 1023 bytes = 0kilobytes)

Syntax: Integer32(1..2097152)

Access: Read-Only

starentMIB(8164).starentMIBObjects(1).starentSlots(2)

Object: starSlotTable

Object ID: enterprises.8164.1.2.1

Description: A table containing information on all of the slots.

Syntax: Sequence of StarSlotEntry

Access: Not-accessible

Object: starSlotEntry

Object ID: enterprises.8164.1.2.1.1

Description: Information about a particular slot.

Syntax: StarSlotEntry

Access: Not-accessible

Sequence:
starSlotNum
starSlotType
starCardType
starCardOperState
starCardAdminState
starCardRevision
starCardLastStateChange
starCardMode
starCardDesiredMode
starCardPacStandbyPriority
starCardLock
starCardHaltIssued
starCardRebootPending
starCardUsable
starCardSinglePOF
starCardAttachment
starCardTemperature
starSlotVoltage1dot5
starSlotVoltage1dot5LowThresh
starSlotVoltage1dot5HighThresh
starSlotVoltage1dot8
starSlotVoltage1dot8LowThresh
starSlotVoltage1dot8HighThresh
starSlotVoltage2dot5
starSlotVoltage2dot5LowThresh
starSlotVoltage2dot5HighThresh
starSlotVoltage3dot3
starSlotVoltage3dot3LowThresh
starSlotVoltage3dot3HighThresh
starSlotVoltage5dot0
starSlotVoltage5dot0LowThresh
starSlotVoltage5dot0HighThresh
starSlotNumPorts
starSlotVoltageState
starSlotNumCpu

starSlotNum

Object ID: enterprises.8164.1.2.1.1.1

Description: The slot number.

Syntax: Integer32(1..48)

Access: Not-accessible

Object: starSlotType

Object ID: enterprises.8164.1.2.1.1.2

Description: The type of the slot.

Syntax: StarentSlotType

Access: Read-only

Object: starCardType

Object ID: enterprises.8164.1.2.1.1.3

Description: The type of the card which is plugged into a slot.

Syntax: StarentCardType

Access: Read-only

Object: starCardOperState

Object ID: enterprises.8164.1.2.1.1.4

Description: The current operational state of the card.

Syntax: Integer

Access: Read-only

Enumeration: unknown(1)
empty(2)
offline(3)
booting(4)

ready(5)
standby(6)
active(7)
migratefrom(8)
migrateto(9)

Object: starCardAdminState

Object ID: enterprises.8164.1.2.1.1.5

Description: The current administrative state of the card.

Syntax: Integer

Access: Read-only

Enumeration: unknown(1)
enabled(2)
disabled(3)

Object: starCardRevision

Object ID: enterprises.8164.1.2.1.1.6

Description: The revision number of the card that is physically present in this slot.

Syntax: StarentVersionNum

Access: Read-only

Object: starCardLastStateChange

Object ID: enterprises.8164.1.2.1.1.7

Description: The time when the last state change occurred for this row. A manager could poll this variable to determine if information has changed.

Syntax: DateAndTime

Access: Read-only

Object: starCardMode

Object ID: enterprises.8164.1.2.1.1.8

Description: The desired mode of the card. This field is applicable only to slots which can contain PAC/PSC and TAC cards. The active(4) value is obsolete and has been replaces with activepac(5) and activetac(6).

Syntax: Integer

Access: Read-only

Enumeration: unknown(1)
notapplicable(2)
standby(3)
active(4)
activepac(5)
activetac(6)
activepsc(7)
activevpc(8)

Object: starCardPacStandbyPriority

Object ID: enterprises.8164.1.2.1.1.9

Description: Specifies the standby priority of the packet accelerator card.

Syntax: Gauge32

Access: Read-only

Object: starCardHaltIssued

Object ID: enterprises.8164.1.2.1.1.10

Description: Only applicable to SPC cards.

Syntax: Integer

Access: Read-only

Enumeration: notapplicable(1)
yes(2)
no(3)

Object: starCardLock

Object ID:

enterprises.8164.1.2.1.1.11

Description: Identifies if the card lock is currently engaged. A value of locked(2) means that the lock is engaged, and thus the card could not be removed from the chassis. A value of unlocked(3) means that the lock is not engaged, and an operator could remove the card from the chassis. A value of unknown(1) should represent that there is no card physically in the slot.

Syntax: Integer

Access: Read-only

Enumeration: unknown(1)
locked(2)
unlocked(3)

Object: starCardRebootPending

Object ID: enterprises.8164.1.2.1.1.12

Description: Identifies if a reboot operation is currently pending for this card.

Syntax: Integer

Access: Read-only

Enumeration: no(1)
yes(2)

Object: starCardUsable

Object ID: enterprises.8164.1.2.1.1.13

Description: Indicates if the card is currently usable.

Syntax: Integer

Access: Read-only

Enumeration: no(1)
yes(2)

Object: starCardSinglePOF

Object ID: enterprises.8164.1.2.1.1.14

Description: Identifies if this card represents a single point of failure (POF). A value of no(1) indicates that this card is supported by a redundant card which can take over in the event of a failure. A value of yes(2) indicates that this card does not have a redundant partner, and that a failure of this card could result in service interruption.

Syntax: Integer

Access: Read-only

Enumeration: notapplicable(1)
no(2)
yes(3)

Object: starCardAttachment

Object ID: enterprises.8164.1.2.1.1.15

Description: Identifies if the card is currently attached to another card (a PAC/PSC attached to a line card, or visa versa, for example)

Syntax: Integer

Access: Read-only

Enumeration: connected(1)
unconnected(2)

Object: starCardTemperature

Object ID: enterprises.8164.1.2.1.1.16

Description: The temperature, in degrees Celsius, as measured on the card. A value of 0 indicates that the temperature cannot be read, or that the card is not present. The maximum measurable temperature is 70 C.

Syntax: Gauge32

Access: Read-only

Object: starSlotVoltage1dot5

Object ID: enterprises.8164.1.2.1.1.20

Description: The current voltage, in millivolts, of the nominal 1.5V power supply. The working range for this card is the range defined by variables starSlotVoltage1dot5LowThresh

and starSlotVoltage1dot5HighThresh. A value of 0 indicates that the voltage cannot be read, or that the card is not present.

Syntax: Gauge32

Access: Read-only

IMPORTANT: This alarm is obsolete. System uses starSlotVoltageState alarm for this notification.

Object: starSlotVoltage1dot5LowThresh

Object ID: enterprises.8164.1.2.1.1.21

Description: The voltage level, in millivolts, which is the lowest allowable value for the nominal 1.5V power supply. A value of 0 indicates that there is no card present.

Syntax: Gauge32

Access: Read-only

IMPORTANT: This alarm is obsolete. System uses starSlotVoltageState alarm for this notification.

Object: starSlotVoltage1dot5HighThresh

Object ID: enterprises.8164.1.2.1.1.22

Description: The voltage level, in millivolts, which is the highest allowable value for the nominal 1.5V power supply. A value of 0 indicates that there is no card present.

Syntax: Gauge32

Access: Read-only

IMPORTANT: This alarm is obsolete. System uses starSlotVoltageState alarm for this notification.

Object: starSlotVoltage1dot8

Object ID: enterprises.8164.1.2.1.1.23

Description:

The current voltage, in millivolts, of the nominal 1.8V power supply. The working range for this card is the range defined by variables starSlotVoltage1dot8LowThresh and starSlotVoltage1dot8HighThresh. A value of 0 indicates that the voltage cannot be read, or that the card is not present.

Syntax: Gauge32

Access: Read-only

IMPORTANT: This alarm is obsolete. System uses starSlotVoltageState alarm for this notification.

Object: starSlotVoltage1dot8LowThresh

Object ID: enterprises.8164.1.2.1.1.24

Description: The voltage level, in millivolts, which is the lowest allowable value for the nominal 1.8V power supply. A value of 0 indicates that there is no card present.

Syntax: Gauge32

Access: Read-only

IMPORTANT: This alarm is obsolete. System uses starSlotVoltageState alarm for this notification.

Object: starSlotVoltage1dot8HighThresh

Object ID: enterprises.8164.1.2.1.1.25

Description: The voltage level, in millivolts, which is the highest allowable value for the nominal 1.8V power supply. A value of 0 indicates that there is no card present.

Syntax: Gauge32

Access: Read-only

IMPORTANT: This alarm is obsolete. System uses starSlotVoltageState alarm for this notification.

Object: starSlotVoltage2dot5

Object ID: enterprises.8164.1.2.1.1.26

Description: The current voltage, in millivolts, of the nominal 2.5V power supply. The working range for this card is the range defined by variables starSlotVoltage2dot5LowThresh and starSlotVoltage2dot5HighThresh. A value of 0 indicates that the voltage cannot be read, or that the card is not present.

Syntax: Gauge32

Access: Read-only

IMPORTANT: This alarm is obsolete. System uses starSlotVoltageState alarm for this notification.

Object: starSlotVoltage2dot5LowThresh

Object ID: enterprises.8164.1.2.1.1.27

Description: The voltage level, in millivolts, which is the lowest allowable value for the nominal 2.5V power supply. A value of 0 indicates that there is no card present.

Syntax: Gauge32

Access: Read-only

IMPORTANT: This alarm is obsolete. System uses starSlotVoltageState alarm for this notification.

Object: starSlotVoltage2dot5HighThresh

Object ID: enterprises.8164.1.2.1.1.28

Description: The voltage level, in millivolts, which is the highest allowable value for the nominal 2.5V power supply. A value of 0 indicates that there is no card present.

Syntax: Gauge32

Access: Read-only

IMPORTANT: This alarm is obsolete. System uses starSlotVoltageState alarm for this notification.

Object: starSlotVoltage3dot3

Object ID: enterprises.8164.1.2.1.1.29

Description: The current voltage, in millivolts, of the nominal 3.3V power supply. The working range for this card is the range defined by variables starSlotVoltage3dot3LowThresh and starSlotVoltage3dot3HighThresh. A value of 0 indicates that the voltage cannot be read, or that the card is not present.

Syntax: Gauge32

Access: Read-only

IMPORTANT: This alarm is obsolete. System uses starSlotVoltageState alarm for this notification.

Object: starSlotVoltage3dot3LowThresh

Object ID: enterprises.8164.1.2.1.1.30

Description: The voltage level, in millivolts, which is the lowest allowable value for the nominal 3.3V power supply. A value of 0 indicates that there is no card present.

Syntax: Gauge32

Access: Read-only

IMPORTANT: This alarm is obsolete. System uses starSlotVoltageState alarm for this notification.

Object: starSlotVoltage3dot3HighThresh

Object ID: enterprises.8164.1.2.1.1.31

Description: The voltage level, in millivolts, which is the highest allowable value for the nominal 3.3V power supply. A value of 0 indicates that there is no card present.

Syntax: Gauge32

Access: Read-only

IMPORTANT: This alarm is obsolete. System uses starSlotVoltageState alarm for this notification.

Object: starSlotVoltage5dot0

Object ID: enterprises.8164.1.2.1.1.32

Description: The current voltage, in millivolts, of the nominal 5.0V power supply. The working range for this card is the range defined by variables starSlotVoltage5dot0LowThresh and starSlotVoltage5dot0HighThresh. A value of 0 indicates that the voltage cannot be read, or that the card is not present.

Syntax: Gauge32

Access: Read-only

IMPORTANT: This alarm is obsolete. System uses starSlotVoltageState alarm for this notification.

Object: starSlotVoltage5dot0LowThresh

Object ID: enterprises.8164.1.2.1.1.33

Description: The voltage level, in millivolts, which is the lowest allowable value for the nominal 5.0V power supply. A value of 0 indicates that there is no card present.

Syntax: Gauge32

Access: Read-only

IMPORTANT: This alarm is obsolete. System uses starSlotVoltageState alarm for this notification.

Object: starSlotVoltage5dot0HighThresh

Object ID: enterprises.8164.1.2.1.1.34

Description: The voltage level, in millivolts, which is the highest allowable value for the nominal 5.0V power supply. A value of 0 indicates that there is no card present.

Syntax: Gauge32

Access: Read-only

IMPORTANT: This alarm is obsolete. System uses starSlotVoltageState alarm for this notification.

Object: starSlotNumPorts

Object ID: enterprises.8164.1.2.1.1.35

Description: Number of data ports on this card. This value will be 0 for cards that no not contain ports, such as SPC/PAC/TAC cards, or for slots which do not contain a card.

Syntax: Gauge32

Access: Read-only

IMPORTANT: This alarm is obsolete.

Object: starSlotAction

Object ID: enterprises.8164.1.2.1.1.36

Description: Trigger to perform certain slot operations. noaction(1) performs no operation. It is the normal value received when this attribute is read. reset(2) causes the slot to be reset.

Syntax: Integer

Access: Read-write

Enumeration: noaction(1)
reset(2)

Object: starSlotVoltageState

Object ID: enterprises.8164.1.2.1.1.37

Description: The state of the voltage supplies on the card. A value of unknown(0) means that the state cannot be identified; normal(1) represents a properly functioning card; outofrange(2) indicates that one or more voltage sources are not within their specified operating range.

Syntax: Integer

Access: Read-only

Enumeration: unknown(0)
normal(1)
outfrange(2)

Object: starSlotNumCpu

Object ID: enterprises.8164.1.2.1.1.38

Description: The number of general purpose CPU on this card.

Syntax: Integer32

Access: Read-only

starentMIB(8164).starentMIBObjects(1).starentSlotMapping(3)

Object: starSlotMappingTable

Object ID: enterprises.8164.1.3.1

Description: A table identifying all of the slot mappings.

Syntax: Sequence of StarSlotMappingEntry

Access: Not-accessible

Object: starSlotMappingEntry

Object ID: enterprises.8164.1.3.1.1

Description: Information about a particular slot mapping.

Syntax: StarSlotMappingEntry

Access: Not-accessible

Sequence:

starSlotMappingNum	Index
starSlotMappingType	
starSlotMappingRCCNum	
starSlotMappingToSlot	

Object: starSlotMappingNum

Object ID: enterprises.8164.1.3.1.1.1

Description: The slot number. This always represents a slot in the back of the chassis.

Syntax: Integer32(17..48)

Access:

Not-accessible

Description: The slot number. This always represents a slot in the back of the chassis.

Object: starSlotMappingType

Object ID: enterprises.8164.1.3.1.1.2

Description: The type of the slot mapping. The value none(1) represents that there is no mapping, which typically represents that there is no card present in this slot.

Syntax: Integer

Access: Read-only

Enumeration: unknown(1)
none(2)
direct(3)
rcc(4)
cross(5)

Object: starSlotMappingRCCNum

Object ID: enterprises.8164.1.3.1.1.3

Description: Identifies which RCC card is responsible for this mapping. This value is only valid if the value of starSlotMappingType is rcc(3).

Syntax: Integer32(0..2)

Access: Read-only

Object: starSlotMappingToSlot

Object ID: enterprises.8164.1.3.1.1.4

Description: The slot number this slot is mapped to. This always represents a slot in the front of the chassis.

Syntax: Integer32(1..16)

Access: Read-only

starentMIB(8164).starentMIBObjects(1).starentFans(4)

Object: starFanTable

Object ID: enterprises.8164.1.4.1

Description: A table containing information on all of the fan controllers.

Syntax: Sequence of StarFanEntry

Access: Not-accessible

Object: starFanEntry

Object ID: enterprises.8164.1.4.1.1

Description: Information about a particular fan controller.

Syntax: StarFanEntry

Access: Not-accessible

Sequence: starFanNum Index
starFanLocation
starFanStatus
starFanSpeed

Object: starFanNum

Object ID: enterprises.8164.1.4.1.1.1

Description: The fan controller number.

Syntax: Integer32(1..2)

Access: Not-accessible

Object: starFanLocation

Object ID: enterprises.8164.1.4.1.1.2

Description: The physical location of the fan controller.

Syntax: Integer

Access: Read-only

Enumeration: upper(1)
lower(2)

Object: starFanStatus

Object ID: enterprises.8164.1.4.1.1.3

Description: A bitmask representing the status of the fan tray. A normal, properly functioning fan tray would show 0x101 (257 decimal), meaning it is present (0x100) and all fans are working (0x1).

Syntax: Integer32

Access: Read-only

Enumeration: 0x01 All Fans Good
0x02 Multiple Fans Bad
0x04 Single Fan Bad
0x08 HB Error
0x10 COM A Error
0x20 COM B Error
0x40 COMM Error
0x80 Not Present
0x100 Present
0x200 Filter Clogged
0x400 State Unknown

Object: starFanSpeed

Object ID: enterprises.8164.1.4.1.1.4

Description: The speed of the fans controlled by this fan controller. The values represent the percentage that the speed is running relative to the maximum possible speed, speed100(12)

Syntax: Integer

Access: Read-only

Enumeration: unknown(1)

speed50(2)
speed55(3)
speed60(4)
speed65(5)
speed70(6)
speed75(7)
speed80(8)
speed85(9)
speed90(10)
speed95(11)
speed100(12)

starentMIB(8164).starentMIBObjects(1).starentLogs(5)

The objects in this table are not accessible via SNMP. They are intended for use within traps.

Object:	**starLogTable**
Object ID:	enterprises.8164.1.5.1
Description:	A table containing information about all of the system logs.
Syntax:	Sequence of StarLogEntry
Access:	Not-accessible

Object:	**starLogEntry**	
Object ID:	enterprises.8164.1.5.1.1	
Description:	Information about a particular system log.	
Syntax:	StarLogEntry	
Access:	Not-accessible	
Sequence:	starLogName	Index
	starLogCurSize	
	starLogMaxSize	
	starLogText	

Object:	**starLogName**
Object ID:	enterprises.8164.1.5.1.1.1
Description:	The name of the system log.
Syntax:	StarShortName
Access:	Not-accessible

Object:	**starLogCurSize**
Object ID:	enterprises.8164.1.5.1.1.2
Description:	The size, in bytes, of this log.
Syntax:	Gauge32
Access:	Read-only

Object:	**starLogMaxSize**
Object ID:	enterprises.8164.1.5.1.1.3
Description:	The maximum size, in bytes, of this log.
Syntax:	Gauge32
Access:	Read-only

Object:	**starLogText**
Object ID:	enterprises.8164.1.5.1.1.4
Description:	For use in LogMsg trap.
Syntax:	Octet String (SIZE (1..512))
Access:	Read-only

starentMIB(8164).starentMIBObjects(1).starentAlertMan(8)

starentMIB(8164).starentMIBObjects(1).starentAlertMan(8)

starentFeedback(1)

Object:	**starMaxAlertsPerTime**
Object ID:	enterprises.8164.1.8.1.1
Description:	The maximum number of SNMP Traps which will be sent within the time period specified by starWindowTime.
Syntax:	Gauge32
Access:	Read-only

Object:	**starWindowTime**
Object ID:	enterprises.8164.1.8.1.2
Description:	The amount of time, in seconds, within which no more than starMaxAlertsPerTime SNMP Traps will be sent.
Syntax:	Unsigned32
Access:	Read-only

Object:	**starAlertSendingEnabled**
Object ID:	enterprises.8164.1.8.1.3
Description:	Shows if SNMP traps are currently enabled or disabled. Traps are disabled when more than starMaxAlertsPerTime traps are sent within the starWindowTime time period. A value of true(1) indicates that traps will still be sent. A value of false(2) indicates that traps are no longer being generated
Syntax:	TruthValue
Access:	Read-only

starentMIB(8164).starentMIBObjects(1).starentPower(9)

Object: **starPowerTable**

Object ID: enterprises.8164.1.9.1

Description: A table containing information about all power filters.

Syntax: Sequence of StarPowerEntry

Access: Not-accessible

Object: **starPowerEntry**

Object ID: enterprises.8164.1.9.1.1

Description: Information about a particular power filter.

Syntax: StarPowerEntry

Access: Not-accessible

Sequence: starPowerNumber Index
starPowerState

Object: **starPowerNumber**

Object ID: enterprises.8164.1.9.1.1.1

Description: The identifying number for this power filter.

Syntax: Integer

Access: Not-accessible

Enumeration: powerA(1)
powerB(2)

Object: **starPowerState**

Object ID: enterprises.8164.1.9.1.1.2

Description: The state of the power filter. The value active(1) means that the power filter is present and operational. The value failed(2) means that the power filter is present, but not

operational. The value not-present(3) means that the power filter is not physically present in the system.

Syntax: Integer

Access: Read-only

Enumeration: active(1)
failed(2)
notpresent(3)

starentMIB(8164).starentMIBObjects(1).starentCPU(10)

Object: starCPUTable

Object ID: enterprises.8164.1.10.1

Description: A table containing information about all CPUs

Syntax: Sequence of StarCPUEntry

Access: Not-accessible

Object: starCPUEntry

Object ID: enterprises.8164.1.10.1.1

Description: Information about a particular CPU.

Syntax: StarCPUEntry

Access: Not-accessible

Sequence: starCPUSlot Index
starCPUNumber Index
starCPUUser
starCPUSystem
starCPUIdle
starCPUIO
starCPURQ
starCPULoad1Min

starCPULoad5Min

starCPULoad15Min

starCPUMemTotal

starCPUMemUsed

starCPUNumProcesses

starCPUMemCached

Object: **starCPUSlot**

Object ID: enterprises.8164.1.10.1.1.1

Description: The slot number of the card holding this CPU.

Syntax: Integer32(1..16)

Access: Not-accessible

Object: **starCPUNumber**

Object ID: enterprises.8164.1.10.1.1.2

Description: The CPU number within this card. Numbers begin at 0.

Syntax: Integer32(0..3)

Access: Not-accessible

Object: **starCPUUser**

Object ID: enterprises.8164.1.10.1.1.3

Description: Percentage of the CPU spent running user processes. starCPUUser is the percentage value times 100; for example, 2.3% would be represented as 230

Syntax: Integer32(1..10000)

Access: Read-only

Object: **starCPUSystem**

Object ID: enterprises.8164.1.10.1.1.4

Description: Percentage of the CPU spent running system processes. starCPUSystem is the percentage value times 100; for example, 2.3% would be represented as 230.

Syntax:

Integer32(1..10000)

Access: Read-only

Object: starCPUIdle

Object ID: enterprises.8164.1.10.1.1.6

Description: Percentage of the CPU spent idle. starCPUIdle is the percentage value times 100; for example, 2.3% would be represented as 230.

Syntax: Integer32(1..10000)

Access: Read-only

Object: starCPUIO

Object ID: enterprises.8164.1.10.1.1.7

Description: Percentage of the CPU spent running Input/Output processes. starCPUIO is the percentage value times 100; for example, 2.3% would be represented as 230.

Syntax: Integer32(1..10000)

Access: Read-only

Object: starCPURQ

Object ID: enterprises.8164.1.10.1.1.8

Description: Percentage of the CPU spent running IRQ processes. starCPURQ is the percentage value times 100; for example, 2.3% would be represented as 230.

Syntax: Integer32(1..10000)

Access: Read-only

Object: starCPULoad1Min

Object ID: enterprises.8164.1.10.1.1.11

Description: The average CPU load over the last minute. The CPU load is defined to be the number of processes who are ready to run. starCPULoad1Min is the average number of processes times 100; for example, 2.45 would be represented as 245.

Syntax: Integer32(1..1000000000)

Access: Read-only

Object: starCPULoad5Min

Object ID: enterprises.8164.1.10.1.1.12

Description: The average CPU load over the last 5 minutes. The CPU load is defined to be the number of processes who are ready to run. starCPULoad5Min is the average number of processes times 100; for example, 2.45 would be represented as 245.

Syntax: Integer32(1..1000000000)

Access: Read-only

Object: starCPULoad15Min

Object ID: enterprises.8164.1.10.1.1.13

Description: The average CPU load over the last 15 minutes. The CPU load is defined to be the number of processes who are ready to run. starCPULoad15Min is the average number of processes times 100; for example, 2.45 would be represented as 245.

Syntax: Integer32(1..1000000000)

Access: Read-only

Object: starCPUMemTotal

Object ID: enterprises.8164.1.10.1.1.14

Description: The total amount of memory dedicated to this CPU, in kilobytes.

Syntax: Integer32(1..2097152)

Access: Read-only

Object: starCPUMemUsed

Object ID: enterprises.8164.1.10.1.1.15

Description: The total amount of memory consumed by this CPU, in kilobytes.

Syntax: Integer32(1..2097152)

Access: Read-only

Object:	starCPUNumProcesses
Object ID:	enterprises.8164.1.10.1.1.16
Description:	The total number of processes which exist on this CPU.
Syntax:	Integer32(1..4096)
Access:	Read-only

Object:	starCPUMemCached
Object ID:	enterprises.8164.1.10.1.1.17
Description:	The total amount of memory consumed by the (reusable) memory cache on this CPU, in kilobytes
Syntax:	Integer32(1..2097152)
Access:	Read-only

starentMIB(8164).starentMIBObjects(1).starentNPUMgr(11)

The objects in this table are not accessible via SNMP. They are intended for use within traps.

Object:	starNPUMgrTable
Object ID:	enterprises.8164.1.11.1
Description:	A table containing information about all NPU Managers.
Syntax:	Sequence of StarNPUMgrEntry
Access:	Not-accessible

Object:	starNPUMgrEntry
Object ID:	enterprises.8164.1.11.1.1
Description:	Information about a particular NPU Manager.
Syntax:	StarNPUMgrEntry
Access:	

	Not-accessible
Sequence:	starNPUMgrNumber

Object: starNPUMgrNumber

Object ID:	enterprises.8164.1.11.1.1.1
Description:	The identity of this NPU.
Syntax:	Integer32(1..65535)
Access:	Not-accessible

starentMIB(8164).starentMIBObjects(1).starentSessInP(12)

Object: starSessInProgCalls

Object ID:	enterprises.8164.1.12.1
Description:	The number of sessions currently in progress.
Syntax:	Gauge32
Access:	Read-only

Object: starSessInProgActiveCalls

Object ID:	enterprises.8164.1.12.2
Description:	The number of sessions with active calls.
Syntax:	Gauge32
Access:	Read-only

Object: starSessInProgDormantCalls

Object ID:	enterprises.8164.1.12.3
Description:	The number of sessions associated with dormant calls.
Syntax:	Gauge32

Access: Read-only

Object: starSessInProgArrived

Object ID: enterprises.8164.1.12.4

Description: The number of sessions in the arrived state.

Syntax: Gauge32

Access: Read-only

Object: starSessInProgLCPNeg

Object ID: enterprises.8164.1.12.5

Description: The number of sessions in the link control protocol negotiation state.

Syntax: Gauge32

Access: Read-only

Object: starSessInProgLCPUp

Object ID: enterprises.8164.1.12.6

Description: The number of sessions in the link control protocol up state.

Syntax: Gauge32

Access: Read-only

Object: starSessInProgAuthenticating

Object ID: enterprises.8164.1.12.7

Description: The number of sessions in the authenticating state.

Syntax: Gauge32

Access: Read-only

Object: starSessInProgAuthenticated

Object ID: enterprises.8164.1.12.8

Description: The number of sessions in the authenticated state.

Syntax: Gauge32

Access: Read-only

Object: starSessInProgIPCPUp

Object ID: enterprises.8164.1.12.9

Description: The number of sessions in the IP control protocol up state.

Syntax: Gauge32

Access: Read-only

Object: starSessInProgSIPConn

Object ID: enterprises.8164.1.12.10

Description: The number of sessions in the Simple IP connected state.

Syntax: Gauge32

Access: Read-only

Object: starSessInProgMIPConn

Object ID: enterprises.8164.1.12.11

Description: The number of sessions in the Mobile IP connected state.

Syntax: Gauge32

Access: Read-only

Object: starSessInProgDisc

Object ID: enterprises.8164.1.12.12

Description: The number of sessions in the disconnecting state.

Syntax: Gauge32

Access: Read-only

starentMIB(8164).starentMIBObjects(1).starentSessMgr(13)

Object: **starSessMgrCount**

Object ID: enterprises.8164.1.13.1

Description: The total number of session manager instances.

Syntax: Gauge32

Access: Read-only

Object: **starSessTtlArrived**

Object ID: enterprises.8164.1.13.2

Description: The total number of requested sessions.

Syntax: Gauge32

Access: Read-only

Object: **starSessTtlRejected**

Object ID: enterprises.8164.1.13.3

Description: The total number of rejected sessions.

Syntax: Gauge32

Access: Read-only

Object: **starSessTtlConnected**

Object ID: enterprises.8164.1.13.4

Description: The total number of sessions which were connected.

Syntax: Gauge32

Access: Read-only

Object:

starSessTtlAuthSucc

Object ID: enterprises.8164.1.13.5

Description: The total number of sessions where authentication was successful.

Syntax: Gauge32

Access: Read-only

Object: starSessTtlAuthFail

Object ID: enterprises.8164.1.13.6

Description: The total number of sessions which failed authentication.

Syntax: Gauge32

Access: Read-only

Object: starSessTtlLCPUp

Object ID: enterprises.8164.1.13.7

Description: The total number of sessions in the link control protocol in the up state.

Syntax: Gauge32

Access: Read-only

Object: starSessTtlIPCPUp

Object ID: enterprises.8164.1.13.8

Description: The total number of sessions in the IP control protocol up state.

Syntax: Gauge32

Access: Read-only

Object: starSessTtlSrcViol

Object ID: enterprises.8164.1.13.9

Description: The total number of sessions which had an invalid source.

Syntax:

Gauge32

Access: Read-only

Object: starSessTtlKeepFail

Object ID: enterprises.8164.1.13.10

Description: The total number of sessions which had a keep alive failure.

Syntax: Gauge32

Access: Read-only

Object: starSessTtlOctForwarded

Object ID: enterprises.8164.1.13.11

Description: The total number of octets forwarded (data + control).

Syntax: Counter32

Units: Megabytes

Access: Read-only

Object: starSessTtlRPRegAccept

Object ID: enterprises.8164.1.13.12

Description: The total number of Initial RRQ Accepted.

Syntax: Counter32

Access: Read-only

Object: starSessTtlRPRegAcceptInterPDSN

Object ID: enterprises.8164.1.13.13

Description: The total number of Inter PDSN Handoff RRQ Accepted.

Syntax: Counter32

Access: Read-only

Object:	starPPPCurrSessions
Object ID:	enterprises.8164.1.13.14
Description:	The current number of PPP sessions
Syntax:	Counter32
Access:	Read-only

Object:	starSessTtlTxBytes
Object ID:	enterprises.8164.1.13.15
Description:	The total number of bytes transmitted from mobiles
Syntax:	Counter32
Units:	Megabytes
Access:	Read-only

Object:	starSessTtlRxBytes
Object ID:	enterprises.8164.1.13.16
Description:	he total number of bytes received by mobiles
Syntax:	Counter32
Units:	Megabytes
Access:	Read-only

Object:	starSessTtlSIPTxBytes
Object ID:	enterprises.8164.1.13.17
Description:	The total number of bytes transmitted from mobiles using SIP
Syntax:	Counter32
Units:	Megabytes
Access:	Read-only

Object:	starSessTtlSIPRxBytes
Object ID:	enterprises.8164.1.13.18
Description:	The total number of bytes received by mobiles using SIP
Syntax:	Counter32
Units:	Megabytes
Access:	Read-only

Object:	starSessTtlMIPTxBytes
Object ID:	enterprises.8164.1.13.19
Description:	The total number of bytes transmitted from mobiles using MIP
Syntax:	Counter32
Units:	Megabytes
Access:	Read-only

Object:	starSessTtlMIPRxBytes
Object ID:	enterprises.8164.1.13.20
Description:	The total number of bytes received by mobiles using MIP
Syntax:	Counter32
Units:	Megabytes
Access:	Read-only

Object:	starSessTtlOctForwardedGB
Object ID:	enterprises.8164.1.13.21
Description:	The total number of octets forwarded (data + control)
Syntax:	Counter32
Units:	Gigabytes

Access: read-only

starentMIB(8164).starentMIBObjects(1).starentAAAMgr(14)

Object: starAAAMgrCount

Object ID: enterprises.8164.1.14.1

Description: The total number of AAA manager instances.

Syntax: Gauge32

Access: Read-only

Object: starAAATtlRequests

Object ID: enterprises.8164.1.14.2

Description: The total number of AAA requests.

Syntax: Gauge32

Access: Read-only

Object: starAAATtlAuthRequests

Object ID: enterprises.8164.1.14.3

Description: The total number of AAA authentication requests.

Syntax: Gauge32

Access: Read-only

Object: starAAATtlAcctRequests

Object ID: enterprises.8164.1.14.4

Description: The total number of AAA accounting requests.

Syntax: Gauge32

Access:

Read-only

Object: starAAACurRequests

Object ID: enterprises.8164.1.14.5

Description: The current number of AAA requests.

Syntax: Gauge32

Access: Read-only

Object: starAAACurAuthRequests

Object ID: enterprises.8164.1.14.6

Description: The current number of AAA authentication requests.

Syntax: Gauge32

Access: Read-only

Object: starAAACurAcctRequests

Object ID: enterprises.8164.1.14.7

Description: The current number of AAA accounting requests.

Syntax: Gauge32

Access: Read-only

Object: starAAATtlAcctSess

Object ID: enterprises.8164.1.14.8

Description: The total number of AAA accounting sessions.

Syntax: Gauge32

Access: Read-only

Object: starAAACurAcctSess

Object ID: enterprises.8164.1.14.9

Description:

The current number of accounting sessions

Syntax: Gauge32

Access: Read-only

Object: starAAATtlAuthSuccess

Object ID: enterprises.8164.1.14.10

Description: The total number of AAA authentication successes.

Syntax: Gauge32

Access: Read-only

Object: starAAATtlAuthFailure

Object ID: enterprises.8164.1.14.11

Description: The total number of AAA authentication failures.

Syntax: Gauge32

Access: Read-only

starentMIB(8164).starentMIBObjects(1).starentA11Mgr(15)

Object: starA11MgrCount

Object ID: enterprises.8164.1.15.1

Description: The total number of A11 manager instances.

Syntax: Gauge32

Access: Read-only

Object: starA11TtlArrived

Object ID: enterprises.8164.1.15.2

Description: The total number of A11 session requests.

Syntax: Gauge32

Access: Read-only

Object: starA11TtlRejected

Object ID: enterprises.8164.1.15.3

Description: The total number of rejected A11 sessions.

Syntax: Gauge32

Access: Read-only

Object: starA11TtlDemultiplexed

Object ID: enterprises.8164.1.15.4

Description: The total number of demultiplexed A11 sessions.

Syntax: Counter32

Access: Read-only

Object: starA11TtlDereg

Object ID: enterprises.8164.1.15.5

Description: The total number of A11 deregistrations.

Syntax: Counter32

Access: Read-only

Object: starA11CurActive

Object ID: enterprises.8164.1.15.6

Description: The current number of active A11 sessions.

Syntax: Gauge32

Access: Read-only

starentMIB(8164).starentMIBObjects(1).starentHAMgr(16)

Object: **starHAMgrCount**

Object ID: enterprises.8164.1.16.1

Description: The total number of home agent manager instances.

Syntax: Gauge32

Access: Read-only

Object: **starHATtlArrived**

Object ID: enterprises.8164.1.16.2

Description: The total number of home agent session requests.

Syntax: Counter32

Access: Read-only

Object: **starHATtlRejected**

Object ID: enterprises.8164.1.16.3

Description: The total number of rejected home agent sessions.

Syntax: Counter32

Access: Read-only

Object: **starHATtlDemultiplexed**

Object ID: enterprises.8164.1.16.4

Description: The total number of demultiplexed home agent sessions.

Syntax: Counter32

Access: Read-only

Object: **starHATtlDereg**

Object ID: enterprises.8164.1.16.5

Description: The total number of home agent deregistrations.

Syntax: Counter32

Access: Read-only

Object: starHACurActive

Object ID: enterprises.8164.1.16.6

Description: The current number of active home agent sessions.

Syntax: Gauge32

Access: Read-only

starentMIB(8164).starentMIBObjects(1).starentFAMgr(17)

Object: starFAMgrCount

Object ID: enterprises.8164.1.17.1

Description: The total number of foreign agent manager instances.

Syntax: Gauge32

Access: Read-only

Object: starFATtlArrived

Object ID: enterprises.8164.1.17.2

Description: The total number of foreign agent session requests.

Syntax: Counter32

Access: Read-only

Object: starFATtlRejected

Object ID: enterprises.8164.1.17.3

Description:

The total number of rejected foreign agent sessions.

Syntax: Counter32

Access: Read-only

Object: starFATtlDemultiplexed

Object ID: enterprises.8164.1.17.4

Description: The total number of demultiplexed foreign agent sessions.

Syntax: Counter32

Access: Read-only

Object: starFATtlDereg

Object ID: enterprises.8164.1.17.5

Description: The total number of foreign agent deregistrations.

Syntax: Counter32

Access: Read-only

Object: starFACurActive

Object ID: enterprises.8164.1.17.6

Description: The current number of active foreign agent sessions.

Syntax: Gauge32

Access: Read-only

starentMIB(8164).starentMIBObjects(1).starentService(18)

The objects in this table are not accessible via SNMP. They are intended for use within traps.

Object: starServiceTable

Object ID: enterprises.8164.1.18.1

Description:

A table containing information about all of the service managers.

Syntax: Sequence of StarSvcEntry

Access: Not-accessible

Object: starServiceEntry

Object ID: enterprises.8164.1.18.1.1

Description: Information about a particular service manager.

Syntax: StarSvcEntry

Access: Not-accessible

Sequence:

starServiceVpnID	Index
starServiceSvcID	Index
starServiceVpnName	
starServiceServName	
starServiceSubLimit	
starServiceSubCurrent	
starServiceType	
starServiceFAIpAddr	
starServiceHAIpAddr	

Object: starServiceVpnId

Object ID: enterprises.8164.1.18.1.1.1

Description: The internal identification of the VPN (context).

Syntax: Gauge32

Access: Not-accessible

Object: starServiceSvcID

Object ID: enterprises.8164.1.18.1.1.2

Description: The internal identification of the service, unique to the associated context.

Syntax: Gauge32

Access: Not-accessible

Object: starServiceVpnName

Object ID: enterprises.8164.1.18.1.1.3

Description: The name of the VPN (context).

Syntax: DisplayString

Access: Read-only

Object: starServiceServName

Object ID: enterprises.8164.1.18.1.1.4

Description: The name of the service.

Syntax: DisplayString

Access: Read-only

Object: starServiceSubLimit

Object ID: enterprises.8164.1.18.1.1.5

Description: The configured subscriber limit.

Syntax: Unsigned32

Access: Read-only

Object: starServiceSubCurrent

Object ID: enterprises.8164.1.18.1.1.6

Description: Current subscriber limit.

Syntax: Gauge32

Access: Read-only

Object: starServiceType

Object ID: enterprises.8164.1.18.1.1.7

Description: Service type.

Syntax: INTEGER

Access: Read-only

Enumeration: unknown(1)
pdsn(2)
ggsn(3)
ha(4)
fa(5)
l2tpserver(6)
lac(7)
lns(8)
closedrp(9
ecs(10)
cscf(11)
ipsg(12)
evdoreva(13)
pdif(15)
asnpc(16)
mipv6ha(17)
phsgw(18)
phspc(19)
sgsn(20)
gprs(21)
hsgw(22)
pgw(23)
sgw(24)
pdg(25)
standalonefa(26)
imsue(27)

Object: starServiceFAIpAddr

Object ID: enterprises.8164.1.18.1.1.8

Description: The IP address for an FA service. Where unknown or not applicable this will contain all zeroes.

Syntax: IpAddress

Access: Read-only

Object: starServiceHAIpAddr

Object ID: enterprises.8164.1.18.1.1.9

Description: The IP address for an HA service. Where unknown or not applicable this will contain all zeroes.

Syntax: IpAddress

Access: Read-only

starentMIB(8164).starentMIBObjects(1).starentCLIMgr(19)

The objects in this table are not accessible via SNMP. They are intended for use within traps.

Object: starCLITable

Object ID: enterprises.8164.1.19.1

Description: A table containing information about all interactive CLI sessions.

Syntax: Sequence of StarSvcEntry

Access: Not-accessible

Object: starCLIEntry

Object ID: enterprises.8164.1.19.1.1

Description: Information about a particular CLI session.

Syntax: StarSvcEntry

Access: Not-accessible

Sequence: starCLIID
starCLIUsername
starCLITtyname

starCLIPrivs
starCLIType
starCLIRemoteIpAddr
starCLIContext

Object: starCLIID

Object ID: enterprises.8164.1.19.1.1.1

Description: The internal identify of the CLI session.

Syntax: Gauge32

Access: Not-accessible

Object: starCLIUsername

Object ID: enterprises.8164.1.19.1.1.2

Description: The name of the user logged into the CLI sessions or ‘unknown’ if not known.

Syntax: DisplayString

Access: Read-only

Object: starCLITtyname

Object ID: enterprises.8164.1.19.1.1.3

Description: The name of the TTY device used for the CLI session.

Syntax: DisplayString

Access: Read-only

Object: starCLIPrivs

Object ID: enterprises.8164.1.19.1.1.4

Description: The CLI session privilege level.

Syntax: DisplayString

Access: Read-only

Object:

starCLIType

Object ID: enterprises.8164.1.19.1.1.5

Description: The CLI type; commandline(1) represents the normal interactive command line; ftp(2) represents an incoming FTP session.

Syntax: INTEGER

Access: Read-only

Enumeration: unknown(0)
commandline(1)
ftp(2)

Object: starCLIRemoteIPAddr

Object ID: enterprises.8164.1.19.1.1.6

Description: The remote IP address used to access this CLI session. Where unknown or not applicable (such as access through a serial port) this will be 0.

Syntax: IpAddress

Access: Read-only

Object: starCLIContext

Object ID: enterprises.8164.1.19.1.1.7

Description: The context (VPN) currently being viewed or managed by the CLI session.

Syntax: DisplayString

Access: Read-only

starentMIB(8164).starentMIBObjects(1).starentTaskMgr(20)

The objects in this table are not accessible via SNMP. They are intended for use within traps.

Object: starTaskTable

Object ID: enterprises.8164.1.20.1

Description:

A table containing information about all of the active tasks.

Syntax: Sequence of StarSvcEntry

Access: Not-accessible

Object: starTaskEntry

Object ID: enterprises.8164.1.20.1.1

Description: Information about a particular task.

Syntax: StarSvcEntry

Access: Not-accessible

Sequence:
starTaskFacility Index
starTaskInstance Index
starTaskFacilityName
starTaskCard
starTaskCPU

Object: starTaskFacility

Object ID: enterprises.8164.1.20.1.1.1

Description: The internal identify of the facility.

Syntax: Unsigned32

Access: Not-accessible

Object: starTaskInstance

Object ID: enterprises.8164.1.20.1.1.2

Description: The unique internal instance identifier for the task without a given facility.

Syntax: Unsigned32

Access: Read-only

Object: starTaskFacilityName

Object ID: enterprises.8164.1.20.1.1.3

Description: The name of the facility the task is associated with.

Syntax: DisplayString

Access: Read-only

Object: starTaskCard

Object ID: enterprises.8164.1.20.1.1.4

Description: The slot number of the card where the task is located.

Syntax: Unsigned32

Access: Read-only

Object: starTaskCPU

Object ID: enterprises.8164.1.20.1.1.5

Description: The CPU number where the task is running.

Syntax: Unsigned32

Access: Read-only

starentMIB(8164).starentMIBObjects(1).starentPPP(21)

Object: starPPPStatTable

Object ID: enterprises.8164.1.21.1

Description: A table containing PPP statistics.

Syntax: Sequence of StarPPPStatEntry

Access: Not-accessible

Object: starPPPStatEntry

Object ID: enterprises.8164.1.21.1.1

Description:

The statistics for an individual entry for a PPP context and service.

Syntax: StarPPPStatEntry

Access: Not-accessible

Sequence:

starPPPStatVpnID
starPPPStatSvcID Index (Implied)
starPPPStatVpnName
starPPPStatServName
starPPPStatInit
starPPPStatReneg
starPPPStatSuccess
starPPPStatFailed
starPPPStatReleased
starPPPStatReleasedLocal
starPPPStatReleasedRemote
starPPPStatLcpFailMaxRetry
starPPPStatLcpFailOption
starPPPStatIpcpFailMaxRetry
starPPPStatIpcpFailOption
starPPPStatCcpFail
starPPPStatAuthFail
starPPPStatLcpEntered
starPPPStatAuthEntered
starPPPStatIpcpEntered
starPPPStatRenegPdsn
starPPPStatRenegMobil
starPPPStatRenegAddrMismatch
starPPPStatRenegOther
starPPPStatChapAuthAttempt
starPPPStatPapAuthAttempt
starPPPStatMSChapAuthAttempt
starPPPStatChapAuthFail
starPPPStatPapAuthFail
starPPPStatMSChapAuthFail
starPPPStatStacComp
starPPPStatMppcComp

starPPPStatDeflComp
starPPPStatFscErrs
starPPPStatUnknProto
starPPPStatBadAddr
starPPPStatBadCtrl
starPPPStatVjComp
starPPPStatDiscLcpRemote
starPPPStatDiscRpRemote
starPPPStatDiscAdmin
starPPPStatDiscIdleTimeout
starPPPStatDiscAbsTimeout
starPPPStatDiscPPPKeepalive
starPPPStatDiscNoResource
starPPPStatDiscMisc
starPPPStatFailedReneg
starPPPStatLcpFailUnknown
starPPPStatIpcpFailUnknown
starPPPStatAuthAbort
starPPPStatLowerLayerDisc
starPPPStatLcpSuccess
starPPPStatAuthSuccess
starPPPStatRenegLowerLayerHandoff
starPPPStatRenegParamUpdate
starPPPStatChapAuthSuccess
starPPPStatPapAuthSuccess
starPPPStatMSChapAuthSuccess
starPPPStatChapAuthAbort
starPPPStatPapAuthAbort
starPPPStatMSChapAuthAbort
starPPPStatSessSkipAuth
starPPPStatNegComp
starPPPStatCCPNegFailComp
starPPPStatDiscLocalLowerLayer
starPPPStatDiscAddFlowFail
starPPPStatDiscMaxRetriesLCP
starPPPStatDiscMaxRetriesIPCP
starPPPStatDiscMaxSetupTimer

starPPPStatDiscInvalidDestVpn
starPPPStatDiscOptNegFailLCP
starPPPStatDiscOptNegFailIPCP
arPPPStatDiscNoRemoteIpAddr
starPPPStatDiscCallTypeDetectFail
starPPPStatDiscRemoteDiscUpLayer
starPPPStatDiscLongDuraTimeout
starPPPStatDiscAuthFail
starPPPStatLCPEchoTotalReq
starPPPStatLCPEchoReqResent
starPPPStatLCPEchoRepRecved
starPPPStatLCPEchoReqTimeout
starPPPStatRecvErrBadCtrlField
starPPPStatRecvErrBadPacketLen
starPPPStatRemoteTerm
starPPPStatMiscFail

Object: starPPPStatVpnID

Object ID: enterprises.8164.1.21.1.1.1

Description: The internal identification of the PPP VPN (context).

Syntax: Gauge32

Access: Not-accessible

Object: starPPPStatSvcID

Object ID: enterprises.8164.1.21.1.1.2

Description: The service identification is made up from first 8 chars of context name and first 8 chars of service name separated by (:).

Syntax: StarShortID

Access: Not-accessible

Object: starPPPStatVpnName

Object ID: enterprises.8164.1.21.1.1.3

Description:

The name of the PPP VPN (context).

Syntax: DisplayString

Access: Read-only

Object: starPPPStatServName

Object ID: enterprises.8164.1.21.1.1.4

Description: The name of the PPP service.

Syntax: DisplayString

Access: Read-only

Object: starPPPStatInit

Object ID: enterprises.8164.1.21.1.1.5

Description: The number of initialized PPP sessions for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatReneg

Object ID: enterprises.8164.1.21.1.1.6

Description: The number of PPP session renegotiations for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatSuccess

Object ID: enterprises.8164.1.21.1.1.7

Description: The number of PPP session negotiation successes for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object:	starPPPStatFailed
Object ID:	enterprises.8164.1.21.1.1.8
Description:	The number of PPP session negotiation failures for the associated VPN service.
Syntax:	Counter32
Access:	Read-only

Object:	starPPPStatReleased
Object ID:	enterprises.8164.1.21.1.1.9
Description:	The number of PPP sessions released for the associated VPN service.
Syntax:	Counter32
Access:	Read-only

Object:	starPPPStatReleasedLocal
Object ID:	enterprises.8164.1.21.1.1.10
Description:	The number of PPP sessions where the release was initiated locally for the associated VPN service.
Syntax:	Counter32
Access:	Read-only

Object:	starPPPStatReleasedRemote
Object ID:	enterprises.8164.1.21.1.1.11
Description:	The number of PPP session where the release was initiated remotely for the associated VPN service.
Syntax:	Counter32
Access:	Read-only

Object:	starPPPStatLcpFailMaxRetry
Object ID:	enterprises.8164.1.21.1.1.12

Description: The number of PPP sessions which failed to bring up the link control protocol due to excessive retries for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatLcpFailOption

Object ID: enterprises.8164.1.21.1.1.13

Description: The number of PPP sessions which failed to bring up the Link Control Protocol (LCP) due to an invalid option being received for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatIpcpFailMaxRetry

Object ID: enterprises.8164.1.21.1.1.14

Description: The number of PPP sessions which failed to start the IP Control Protocol (IPCP) due to excessive retries for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatIpcpFailOption

Object ID: enterprises.8164.1.21.1.1.15

Description: The number of PPP sessions which failed to start the IP Control Protocol due to an invalid option being received for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatCcpFail

Object ID: enterprises.8164.1.21.1.1.16

Description: The number of PPP sessions which failed to initialize the CCP.

Syntax: Counter32

Access: Read-only

Object: starPPPStatAuthFail

Object ID: enterprises.8164.1.21.1.1.17

Description: The number of PPP sessions which failed authentication for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatLcpEntered

Object ID: enterprises.8164.1.21.1.1.18

Description: The number of PPP sessions which successfully initialized the Link Control Protocol.

Syntax: Counter32

Access: Read-only

Object: starPPPStatAuthEntered

Object ID: enterprises.8164.1.21.1.1.19

Description: The number of PPP sessions which were successfully authenticated.

Syntax: Counter32

Access: Read-only

Object: starPPPStatIpcpEntered

Object ID: enterprises.8164.1.21.1.1.20

Description: The number of PPP sessions which successfully initialized the IP Control Protocol.

Syntax: Counter32

Access: Read-only

Object:

starPPPStatRenegPdsn

Object ID: enterprises.8164.1.21.1.1.21

Description: The number of PPP sessions which re-negotiated the PDSN service access.

Syntax: Counter32

Access: Read-only

Object: starPPPStatRenegMobil

Object ID: enterprises.8164.1.21.1.1.22

Description: The number of PPP sessions which re-negotiated the Mobile IP service access.

Syntax: Counter32

Access: Read-only

Object: starPPPStatRenegAddrMismatch

Object ID: enterprises.8164.1.21.1.1.23

Description: The number of PPP sessions which had an IP address mismatch during re-negotiation.

Syntax: Counter32

Access: Read-only

Object: starPPPStatRenegOther

Object ID: enterprises.8164.1.21.1.1.24

Description: The number of PPP sessions which failed renegotiation for reasons other than IP address mismatch.

Syntax: Counter32

Access: Read-only

Object: starPPPStatChapAuthAttempt

Object ID: enterprises.8164.1.21.1.1.25

Description: The number of PPP CHAP authentication attempts for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatPapAuthAttempt

Object ID: enterprises.8164.1.21.1.1.26

Description: The number of PPP PAP authentication attempts for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatMSChapAuthAttempt

Object ID: enterprises.8164.1.21.1.1.27

Description: The number of PPP MSCHAP authentication attempts for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatChapAuthFail

Object ID: enterprises.8164.1.21.1.1.28

Description: The number of PPP CHAP authentication attempt failures for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatPapAuthFail

Object ID: enterprises.8164.1.21.1.1.29

Description: The number of PPP PAP authentication failures for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object:

starPPPStatMSChapAuthFail

Object ID: enterprises.8164.1.21.1.1.30

Description: The number of PPP MSCHAP authentication failures for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatStacComp

Object ID: enterprises.8164.1.21.1.1.31

Description: The number of PPP sessions which had STAC compression enabled for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatMppcComp

Object ID: enterprises.8164.1.21.1.1.32

Description: The number of PPP sessions which had MPPC compression enabled for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatDeflComp

Object ID: enterprises.8164.1.21.1.1.33

Description: The number of PPP sessions which had DEFLATE compression enabled for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatFscErrs

Object ID: enterprises.8164.1.21.1.1.34

Description: The number of PPP forward sequence control errors in messaging.

Syntax: Counter32

Access: Read-only

Object: starPPPStatUnknProto

Object ID: enterprises.8164.1.21.1.1.35

Description: The number of PPP sessions which failed due to an unknown protocol received for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatBadAddr

Object ID: enterprises.8164.1.21.1.1.36

Description: The number of PPP sessions which failed due to a bad address being received for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatBadCtrl

Object ID: enterprises.8164.1.21.1.1.37

Description: The number of PPP sessions in which a bad control sequence was received.

Syntax: Counter32

Access: Read-only

Object: starPPPStatVjComp

Object ID: enterprises.8164.1.21.1.1.38

Description: The number of PPP sessions which had VJ header compression enabled for the associated VPN service.

Syntax:

Counter32

Access: Read-only

Object: starPPPStatDiscLcpRemote

Object ID: enterprises.8164.1.21.1.1.39

Description: The number of PPP sessions which were disconnected via the link control protocol from the remote end for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatDiscRpRemote

Object ID: enterprises.8164.1.21.1.1.40

Description: The number of PPP sessions which were disconnected by the remote via the R-P interface for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatDiscAdmin

Object ID: enterprises.8164.1.21.1.1.41

Description: The number of PPP sessions which were disconnected by a local administrator for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatDiscIdleTimeout

Object ID: enterprises.8164.1.21.1.1.42

Description: The number of PPP sessions disconnected due to session idle timer expiration for the associated VPN service.

Syntax: Counter32

Access:

Read-only

Object: starPPPStatDiscAbsTimeout

Object ID: enterprises.8164.1.21.1.1.43

Description: The number of PPP sessions disconnected due to the session absolute timer expiration for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatDiscPPPKeepalive

Object ID: enterprises.8164.1.21.1.1.44

Description: The number of PPP sessions disconnected due to PPP keep alive failure for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatDiscNoResource

Object ID: enterprises.8164.1.21.1.1.45

Description: The number of PPP sessions disconnected due to local resource shortage for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatDiscMisc

Object ID: enterprises.8164.1.21.1.1.46

Description: The number of PPP sessions disconnected due to any cause which does not match any other existing disconnect statistic for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object:

starPPPStatFailedReneg

Object ID: enterprises.8164.1.21.1.1.47

Description: The number of failed PPP renegotiations the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatLcpFailUnknown

Object ID: enterprises.8164.1.21.1.1.48

Description: The number of failed PPP LCP that are due to unknown reasons for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatIpcpFailUnknown

Object ID: enterprises.8164.1.21.1.1.49

Description: The number of failed PPP IPCP that are due to unknown reasons for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatAuthAbort

Object ID: enterprises.8164.1.21.1.1.50

Description: The number of aborted PPP authentications for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatLowerLayerDisc

Object ID: enterprises.8164.1.21.1.1.51

Description:

The number of Failed PPP session due to RP disconnect for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatLcpSuccess

Object ID: enterprises.8164.1.21.1.1.52

Description: The number of successful PPP LCPs for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatAuthSuccess

Object ID: enterprises.8164.1.21.1.1.53

Description: The number of successful PPP authentications for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatRenegLowerLayerHandoff

Object ID: enterprises.8164.1.21.1.1.54

Description: The number of PPP renegotiations for RP handoff for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatRenegParamUpdate

Object ID: enterprises.8164.1.21.1.1.55

Description: The number of PPP renegotiations for parameter update for the associated VPN service.

Syntax: Counter32

Access:

Read-only

Object: **starPPPStatChapAuthSuccess**

Object ID: enterprises.8164.1.21.1.1.56

Description: The number of successful PPP CHAP authentications for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: **starPPPStatPapAuthSuccess**

Object ID: enterprises.8164.1.21.1.1.57

Description: The number of successful PPP PAP authentications for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: **starPPPStatMSChapAuthSuccess**

Object ID: enterprises.8164.1.21.1.1.58

Description: The number of successful PPP MSCHAP authentications for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: **starPPPStatChapAuthAbort**

Object ID: enterprises.8164.1.21.1.1.59

Description: The number of aborted PPP CHAP authentications for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: **starPPPStatPapAuthAbort**

Object ID: enterprises.8164.1.21.1.1.60

Description: The number of aborted PPP PAP authentications for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatMSChapAuthAbort

Object ID: enterprises.8164.1.21.1.1.61

Description: The number of aborted PPP MSCHAP authentications for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatSessSkipAuth

Object ID: enterprises.8164.1.21.1.1.62

Description: The number of PPP sessions that skipped authentications for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatNegComp

Object ID: enterprises.8164.1.21.1.1.63

Description: The number of PPP sessions that negotiated compressions for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatCCPNegFailComp

Object ID: enterprises.8164.1.21.1.1.64

Description: The number of PPP sessions that failed compression negotiation for the associated VPN service.

Syntax:

Counter32

Access: Read-only

Object: starPPPStatDiscLocalLowerLayer

Object ID: enterprises.8164.1.21.1.1.65

Description: The number of disconnected PPP sessions due to local RP disconnect for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatDiscAddFlowFail

Object ID: enterprises.8164.1.21.1.1.66

Description: The number of disconnected PPP sessions due to failure in adding new flow for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatDiscMaxRetriesLCP

Object ID: enterprises.8164.1.21.1.1.67

Description: The number of disconnected PPP sessions due to max retries for LCP for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatDiscMaxRetriesIPCP

Object ID: enterprises.8164.1.21.1.1.68

Description: The number of disconnected PPP sessions due to max retries for IPCP for the associated VPN service.

Syntax: Counter32

Access:

Read-only

Object: starPPPStatDiscMaxSetupTimer

Object ID: enterprises.8164.1.21.1.1.69

Description: The number of disconnected PPP sessions due to max setup time out for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatDiscInvalidDestVpn

Object ID: enterprises.8164.1.21.1.1.70

Description: The number of disconnected PPP sessions due to invalid destination VPN for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatDiscOptNegFailLCP

Object ID: enterprises.8164.1.21.1.1.71

Description: The number of disconnected PPP sessions due to invalid destination VPN for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatDiscOptNegFailIPCP

Object ID: enterprises.8164.1.21.1.1.72

Description: The number of disconnected PPP sessions due to failed IPCP option negotiation for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object:

starPPPStatDiscNoRemoteIpAddr

Object ID:	enterprises.8164.1.21.1.1.73
Description:	The number of disconnected PPP sessions due to no remote IP address for the associated VPN service.
Syntax:	Counter32
Access:	Read-only

Object: **starPPPStatDiscCallTypeDetectFail**

Object ID:	enterprises.8164.1.21.1.1.74
Description:	The number of disconnected PPP sessions due to failure detecting call type for the associated VPN service.
Syntax:	Counter32
Access:	Read-only

Object: **starPPPStatDiscRemoteDiscUpLayer**

Object ID:	enterprises.8164.1.21.1.1.75
Description:	The number of disconnected PPP sessions due to failure detecting call type for the associated VPN service.
Syntax:	Counter32
Access:	Read-only

Object: **starPPPStatDiscLongDuraTimeout**

Object ID:	enterprises.8164.1.21.1.1.76
Description:	The number of disconnected PPP sessions due to long duration time out for the associated VPN service.
Syntax:	Counter32
Access:	Read-only

Object: **starPPPStatDiscAuthFail**

Object ID:

enterprises.8164.1.21.1.1.77

Description: The number of disconnected PPP sessions due to failed authentication for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatLCPEchoTotalReq

Object ID: enterprises.8164.1.21.1.1.78

Description: The total number of PPP LCP echo requests for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatLCPEchoReqResent

Object ID: enterprises.8164.1.21.1.1.79

Description: The total number of PPP LCP echo requests resent for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatLCPEchoRepRecved

Object ID: enterprises.8164.1.21.1.1.80

Description: The total number of PPP LCP echo replies received for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatLCPEchoReqTimeout

Object ID: enterprises.8164.1.21.1.1.81

Description: The total number of PPP LCP echo requests time out for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatRecvErrBadCtrlField

Object ID: enterprises.8164.1.21.1.1.82

Description: The total number of received PPP error due to bad control fields for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatRecvErrBadPacketLen

Object ID: enterprises.8164.1.21.1.1.83

Description: The total number of received PPP error due to bad packet length for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatRemoteTerm

Object ID: enterprises.8164.1.21.1.1.84

Description: The total number of PPP remote terminations for the associated VPN service.

Syntax: Counter32

Access: Read-only

Object: starPPPStatMiscFail

Object ID: enterprises.8164.1.21.1.1.85

Description: The number of miscellaneous PPP failures for the associated VPN service.

Syntax: Counter32

Access: Read-only

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Object: **starMIPHAStatTable**

Object ID: enterprises.8164.1.22.1

Description: A table containing MIP home agent statistics.

Syntax: Sequence of starMIPHAStatEntry

Access: Not-accessible

Object: **starMIPHAStatEntry**

Object ID: enterprises.8164.1.22.1.1

Description: The Mobile IP home agent statistics for a specific VPN (context) and service.

Syntax: starMIPHAStatEntry

Access: Not-accessible

Sequence:

starMIPHAStatVpnID	
starMIPHAStatSvcID	Index (Implied)
starMIPHAStatVpnName	
starMIPHAStatServName	
starMIPHADisconnects	
starMIPHAExpiry	
starMIPHADereg	
starMIPHAAdminDrop	
starMIPHARegRecvTotal	
starMIPHARegRecvInitial	
starMIPHARegRecvRenew	
starMIPHARegRecvDereg	
starMIPHARegAcceptTotal	
starMIPHARegAcceptReg,	
starMIPHARegAcceptRenew	
starMIPHARegAcceptDereg	
starMIPHARegDeniedTotal	
starMIPHARegDeniedInitial	

starMIPHARegDeniedRenew
starMIPHARegDeniedDereg
starMIPHARegReplyTotal
starMIPHARegReplyAcceptReg
starMIPHARegReplyAcceptDereg
starMIPHARegReplyDenied
starMIPHARegReplyBadReq
starMIPHARegReplyMismatchID
starMIPHARegReplyAdminProhib
starMIPHARegReplyUnspecErr,
starMIPHARegReplyNoResource
starMIPHARegReplyMnAuthFail
starMIPHARegReplyFAAuthFail
starMIPHARegReplySimulBind
starMIPHARegReplyUnknownHA
starMIPHARegReplyRevTunUnavail
starMIPHARegReplyRevTunMand
starMIPHARegReplyEncapUnavail
starMIPHARegReplySendError
starMIPHAStatFARevocations
starMIPHAStatRegAcceptHO
starMIPHAStatRegDeniedHO
starMIPHAStatRegDiscardTotal

Object: **starMIPHAStatVpnID**

Object ID: enterprises.8164.1.22.1.1.1

Description: The internal identification of the home agent Mobile IP VPN (context).

Syntax: Gauge32

Access: Read-only

Object: **starMIPHAStatSvcID**

Object ID: enterprises.8164.1.22.1.1.2

Description: The service identification is made up from first 8 chars of context name and first 8 chars of service name separated by (:).

Syntax: StarShortID

Access: Not-accessible

Object: starMIPHAStatVpnName

Object ID: enterprises.8164.1.22.1.1.3

Description: The name of the VPN (context).

Syntax: DisplayString

Access: Read-only

Object: starMIPHAStatServName

Object ID: enterprises.8164.1.22.1.1.4

Description: The Mobile IP home agent service name.

Syntax: DisplayString

Access: Read-only

Object: starMIPHAStatDisconnects

Object ID: enterprises.8164.1.22.1.1.5

Description: The number of session disconnects for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatExpiry

Object ID: enterprises.8164.1.22.1.1.6

Description: The number of session expirations for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: **starMIPHAStatDereg**

Object ID: enterprises.8164.1.22.1.1.7

Description: The number of session deregistrations for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: **starMIPHAStatAdminDrop**

Object ID: enterprises.8164.1.22.1.1.8

Description: The number of session disconnects due to administrator actions for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: **starMIPHAStatRegRecvTotal**

Object ID: enterprises.8164.1.22.1.1.9

Description: The number of session registrations received for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: **starMIPHAStatRegRecvInitial**

Object ID: enterprises.8164.1.22.1.1.10

Description: The number of initial session registrations received for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: **starMIPHAStatRegRecvRenew**

Object ID: enterprises.8164.1.22.1.1.11

Description: The number of session registration renewals received for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatRegRecvDereg

Object ID: enterprises.8164.1.22.1.1.12

Description: The number of session deregistrations received for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatRegAcceptTotal

Object ID: enterprises.8164.1.22.1.1.13

Description: The number of session registrations accepted for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatRegAcceptReg

Object ID: enterprises.8164.1.22.1.1.14

Description: The number of session registrations accepted for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatRegAcceptRenew

Object ID: enterprises.8164.1.22.1.1.15

Description: The number of session registration renewals accepted for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatRegAcceptDereg

Object ID: enterprises.8164.1.22.1.1.16

Description: The number of session deregistrations accepted for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatRegDeniedTotal

Object ID: enterprises.8164.1.22.1.1.17

Description: The number of session registrations denied for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatRegDeniedInitial

Object ID: enterprises.8164.1.22.1.1.18

Description: The number of session initial registrations denied for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatRegDeniedRenew

Object ID: enterprises.8164.1.22.1.1.19

Description:

The number of session registration renewals denied for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatRegDeniedDereg

Object ID: enterprises.8164.1.22.1.1.20

Description: The number of session deregistrations denied for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatRegReplyTotal

Object ID: enterprises.8164.1.22.1.1.21

Description: The total number of session registration replies for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatRegReplyAcceptReg

Object ID: enterprises.8164.1.22.1.1.22

Description: The number of session registration replies accepted indicating registration for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatRegReplyAcceptDereg

Object ID: enterprises.8164.1.22.1.1.23

Description: The number of session registration replies accepted indicating deregistration for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatRegReplyDenied

Object ID: enterprises.8164.1.22.1.1.24

Description: The number of session registration replies which were denied for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatRegReplyBadReq

Object ID: enterprises.8164.1.22.1.1.25

Description: The number of session registration replies indicating a bad request for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatRegReplyMismatchID

Object ID: enterprises.8164.1.22.1.1.26

Description: The number of session registration replies indicating an ID mismatch for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatRegReplyAdminProhib

Object ID: enterprises.8164.1.22.1.1.27

Description: The number of session registration replies indicating administrator prohibition for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatRegReplyUnspecErr

Object ID: enterprises.8164.1.22.1.1.28

Description: The number of session registration replies with an unspecified error for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatRegReplyNoResource

Object ID: enterprises.8164.1.22.1.1.29

Description: The number of session registration replies indicating no resources for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatRegReplyMnAuthFail

Object ID: enterprises.8164.1.22.1.1.30

Description: The number of session registration replies indicating mobile number authentication failure for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatRegReplyFAAuthFail

Object ID: enterprises.8164.1.22.1.1.31

Description: The number of session registration replies indicating a foreign agent authentication failure for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: **starMIPHAStatRegReplySimulBind**

Object ID: enterprises.8164.1.22.1.1.32

Description: The number of session registration replies indicating a simultaneous bind condition for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: **starMIPHAStatRegReplyUnknownHA**

Object ID: enterprises.8164.1.22.1.1.33

Description: The number of session registration replies indicating unknown home agent for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: **starMIPHAStatRegReplyRevTunUnavail**

Object ID: enterprises.8164.1.22.1.1.34

Description: The number of session registration replies indicating no reverse tunnel available for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: **starMIPHAStatRegReplyRevTunMand**

Object ID: enterprises.8164.1.22.1.1.35

Description: The number of session registration replies indicating reverse tunneling is mandatory for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: **starMIPHAStatRegReplyEncapUnavail**

Object ID: enterprises.8164.1.22.1.1.36

Description: The number of session registration replies indicating IP encapsulation was not available for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatRegReplySendError

Object ID: enterprises.8164.1.22.1.1.37

Description: The number of session registration replies indicating a send error occurred for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatFARevocations

Object ID: enterprises.8164.1.22.1.1.38

Description: The number of FA revocations for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatRegAcceptHO

Object ID: enterprises.8164.1.22.1.1.39

Description: The number of hand over session registrations accepted for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatRegDeniedHO

Object ID: enterprises.8164.1.22.1.1.40

Description:

The number of hand over session registrations denied for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPHAStatRegDiscardTotal

Object ID: enterprises.8164.1.22.1.1.41

Description: The number of session registrations discarded for the associated Mobile IP home agent VPN service.

Syntax: Counter32

Access: Read-only

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Object: starMIPFAStatTable

Object ID: enterprises.8164.1.23.1

Description: A table containing the Mobile IP Foreign Agent statistics.

Syntax: Sequence of starMIPFAStatEntry

Access: Not-accessible

Description: A table containing MIP FA statistics

Object: starMIPFAStatEntry

Object ID: enterprises.8164.1.23.1.1.

Description: The statistics for a specific foreign agent Mobile IP VPN (context) service.

Syntax: starMIPFAStatEntry

Access: Not-accessible

Sequence: starMIPFAStatVpnID

starMIPFAStatSvcID	Index (Implied)
starMIPFAStatVpnName	
starMIPFAStatServName	
starMIPFAAdvertSend	
starMIPFADiscExpiry	
starMIPFADiscDereg	
starMIPFADiscAdmin	
starMIPFAAuthAttempt	
starMIPFAAuthSuccess	
starMIPFAAuthFailure	
starMIPFARegRecvTotal	
starMIPFARegRecvInitial	
starMIPFARegRecvRenewal	
starMIPFARegRecvDereg	
starMIPFARegAcceptTotal	
starMIPFARegAcceptInitial	
starMIPFARegAcceptRenewal	
starMIPFARegAcceptDereg	
starMIPFARegDenTotal	
starMIPFARegDenInitial	
starMIPFARegDenRenewal	
starMIPFARegDenDereg	
starMIPFARegDiscardTotal	
starMIPFARegDiscardInitial	
starMIPFARegDiscardRenewal	
starMIPFARegDiscardDereg	
starMIPFARegRelayedTotal	
starMIPFARegRelayedInitial	
starMIPFARegRelayedRenewal	
starMIPFARegRelayedDereg	
starMIPFARegAuthFailTotal	
starMIPFARegAuthFailInitial	
starMIPFARegAuthFailRenewal	
starMIPFARegAuthFailDereg	
starMIPFARegDenPDSNTotal	
starMIPFARegDenPDSNInitial	
starMIPFARegDenPDSNRenewal	

starMIPFARegDenPDSNDereg
starMIPFARegDenHATotal
starMIPFARegDenHAInitial
starMIPFARegDenHARenewal
starMIPFARegDenHADereg
starMIPFARegDenPDSNUnspec
starMIPFARegDenPDSNTimeout
starMIPFARegDenPDSNAdmin
starMIPFARegDenPDSNResources
starMIPFARegDenPDSNMnAuth
starMIPFARegDenPDSNHAAuth
starMIPFARegDenPDSNTooLong
starMIPFARegDenPDSNBadReq
starMIPFARegDenPDSNEncapUnav
starMIPFARegDenPDSNRevTunUnav
starMIPFARegDenPDSNRevTunMand
starMIPFARegDenHAFAAuth
starMIPFARegDenHABadReq
starMIPFARegDenHAMismatchID
starMIPFARegDenHASimulBind
starMIPFARegDenHAUnknownHA
starMIPFARegDenHARevRunUnavail
starMIPFARegRplRcvTotal
starMIPFARegRplRcvTotalRly
starMIPFARegRplRcvErrors
starMIPFARegRplRcvInitial
starMIPFARegRplRcvInitialRly
starMIPFARegRplRcvRenewal
starMIPFARegRplRcvRenewalRly
starMIPFARegRplRcvDereg
starMIPFARegRplRcvDeregRly
starMIPFARegRplSentTotal
starMIPFARegRplSentAcceptReg
starMIPFARegRplSentAcceptDereg
starMIPFARegRplSentBadReq
starMIPFARegRplSentTooLong
starMIPFARegRplSentMnAuthFail

starMIPFARegRplSentHAAuthFail
starMIPFARegRplSentAdminProhib
starMIPFARegRplSentNoResources
starMIPFARegRplSentRevTunUnavail
starMIPFARegRplSentRevTunMand
starMIPFARegRplSentSendErrors
starMIPFAStatRegDenPDSNBadReply
starMIPFAStatRegDenPDSNMissNAI
starMIPFAStatRegDenPDSNMissHomeAgent
starMIPFAStatRegDenPDSNMissHomeAddr
starMIPFAStatRegDenPDSNUnknChallenge
starMIPFAStatRegDenPDSNMissChallenge
starMIPFAStatRegDenPDSNStaleChallenge
starMIPFAStatRegDenPDSNMNTooDistant
starMIPFAStatRegDenPDSNStyleUnavail
starMIPFAStatRegDenPDSNHANetUnreach
starMIPFAStatRegDenPDSNHAHostUnreach
starMIPFAStatRegDenPDSNHAPortUnreach
starMIPFAStatRegDenPDSNHAUnreach
starMIPFAStatRegDenPDSNInvCOA
starMIPFAStatRegReqSentInitTotal
starMIPFAStatRegReqSentInitResend
starMIPFAStatRegReqSentRenewTotal
starMIPFAStatRegReqSentRenewResend
starMIPFAStatRegReqSentDeregTotal
starMIPFAStatRegReqSentDeregResend
starMIPFAStatRegRplSentMNTooDistant
starMIPFAStatRegRplSentInvCOA
starMIPFAStatRegRplSentHANetUnreach
starMIPFAStatRegRplSentHAHostUnreach
starMIPFAStatRegRplSentHAPortUnreach
starMIPFAStatRegRplSentHAUnreach
starMIPFAStatRegRplSentRegTimeout
starMIPFAStatRegRplSentMissNAI
starMIPFAStatRegRplSentMissHomeAgent
starMIPFAStatRegRplSentMissHomeAddr
starMIPFAStatRegRplSentUnknChallenge

starMIPFAStatRegRplSentMissChallenge

starMIPFAStatRegRplSentStaleChallenge

starMIPFAStatRegRplSentBadReply

Object: **starMIPFAStatVpnID**

Object ID: enterprises.8164.1.23.1.1.1

Description: Internal identification of the foreign agent Mobile IP VPN (context).

Syntax: Gauge32

Access: Read-only

Object: **starMIPFAStatSvcID**

Object ID: enterprises.8164.1.23.1.1.2

Description: The service identification is made up from first 8 chars of context name and first 8 chars of service name separated by (:).

Syntax: StarShortID

Access: Not-accessible

Object: **starMIPFAStatVpnName**

Object ID: enterprises.8164.1.23.1.1.3

Description: The foreign agent mobile IP VPN (context) name.

Syntax: DisplayString

Access: Read-only

Object: **starMIPFAStatServName**

Object ID: enterprises.8164.1.23.1.1.4

Description: The Mobile IP foreign agent service name.

Syntax: DisplayString

Access: Read-only

Object:

starMIPFAStatAdvertSend

Object ID: enterprises.8164.1.23.1.1.5

Description: The number of advertisements sent for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatDiscExpiry

Object ID: enterprises.8164.1.23.1.1.6

Description: The number of session disconnects due to expiration for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatDiscDereg

Object ID: enterprises.8164.1.23.1.1.7

Description: The number of session disconnects due to deregistration requests for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatDiscAdmin

Object ID: enterprises.8164.1.23.1.1.8

Description: The number of session disconnects due to administrator action for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatAuthAttempt

Object ID:

enterprises.8164.1.23.1.1.9

Description: The number of session authentication attempts for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatAuthSuccess

Object ID: enterprises.8164.1.23.1.1.10

Description: The number of session authentication successes for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatAuthFailure

Object ID: enterprises.8164.1.23.1.1.11

Description: The number of session authentication failures for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRecvTotal

Object ID: enterprises.8164.1.23.1.1.12

Description: The total number of session registrations received for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRecvInitial

Object ID: enterprises.8164.1.23.1.1.13

Description:

The number of initial session registrations received for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRecvRenewal

Object ID: enterprises.8164.1.23.1.1.14

Description: The number of session registration renewals for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRecvDereg

Object ID: enterprises.8164.1.23.1.1.15

Description: The number of session deregistrations for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegAcceptTotal

Object ID: enterprises.8164.1.23.1.1.16

Description: The total number of session registrations accepted for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegAcceptInitial

Object ID: enterprises.8164.1.23.1.1.17

Description: The number of initial session registrations accepted for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegAcceptRenewal

Object ID: enterprises.8164.1.23.1.1.18

Description: The number of session registration renewals accepted for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegAcceptDereg

Object ID: enterprises.8164.1.23.1.1.19

Description: The number of session deregistrations accepted for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenTotal

Object ID: enterprises.8164.1.23.1.1.20

Description: The total number of session registrations denied for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenInitial

Object ID: enterprises.8164.1.23.1.1.21

Description: The number of initial session registrations denied for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenRenewal

Object ID: enterprises.8164.1.23.1.1.22

Description: The number of session registration renewals denied for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenDereg

Object ID: enterprises.8164.1.23.1.1.23

Description: The number of session deregistrations denied for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDiscardTotal

Object ID: enterprises.8164.1.23.1.1.24

Description: The total number of session registrations discarded for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDiscardInitial

Object ID: enterprises.8164.1.23.1.1.25

Description: The number of initial session registrations discarded for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: **starMIPFAStatRegDiscardRenewal**

Object ID: enterprises.8164.1.23.1.1.26

Description: The number of session registration renewals discarded for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: **starMIPFAStatRegDiscardDereg**

Object ID: enterprises.8164.1.23.1.1.27

Description: The number of session deregistrations discarded for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: **starMIPFAStatRegRelayedTotal**

Object ID: enterprises.8164.1.23.1.1.28

Description: The total number of session registrations relayed for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: **starMIPFAStatRegRelayedInitial**

Object ID: enterprises.8164.1.23.1.1.29

Description: The number of initial session registrations relayed for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: **starMIPFAStatRegRelayedRenewal**

Object ID: enterprises.8164.1.23.1.1.30

Description: The number of session registration renewals relayed for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRelayedDereg

Object ID: enterprises.8164.1.23.1.1.31

Description: The number of session deregistrations relayed for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegAuthFailTotal

Object ID: enterprises.8164.1.23.1.1.32

Description: The total number of session registration authentication failures for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegAuthFailInitial

Object ID: enterprises.8164.1.23.1.1.33

Description: The number of initial session registration failures for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegAuthFailRenewal

Object ID: enterprises.8164.1.23.1.1.34

Description: The number of session registration renewal failures for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegAuthFailDereg

Object ID: enterprises.8164.1.23.1.1.35

Description: The number of session deregistration authentication failures for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenPDSNTotal

Object ID: enterprises.8164.1.23.1.1.36

Description: The total number of PDSN session registrations denied for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenPDSNInitial

Object ID: enterprises.8164.1.23.1.1.37

Description: The number of initial PDSN session registrations denied for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenPDSNRenewal

Object ID: enterprises.8164.1.23.1.1.38

Description:

The number of PDSN session registration renewals denied for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenPDSNDereg

Object ID: enterprises.8164.1.23.1.1.39

Description: The number of PDSN session deregistrations denied for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenHATotal

Object ID: enterprises.8164.1.23.1.1.40

Description: The total number of session registrations denied by the home agent for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenHAInitial

Object ID: enterprises.8164.1.23.1.1.41

Description: The number of initial session registrations denied by the home agent for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenHARenewal

Object ID: enterprises.8164.1.23.1.1.42

Description: The number of session registration renewals denied by the home agent for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenHADereg

Object ID: enterprises.8164.1.23.1.1.43

Description: The number of session deregistrations denied by the home agent for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenPDSNUnspec

Object ID: enterprises.8164.1.23.1.1.44

Description: The number of PDSN session registrations denied for an unspecified reason for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenPDSNTimeout

Object ID: enterprises.8164.1.23.1.1.45

Description: The number of PDSN session registrations denied due to timer expiration for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenPDSNAdmin

Object ID: enterprises.8164.1.23.1.1.46

Description: The number of PDSN session registration denied due administrator prohibition for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenPDSNResources

Object ID: enterprises.8164.1.23.1.1.47

Description: The number of PDSN session registrations denied due to no resources for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenPDSNMnAuth

Object ID: enterprises.8164.1.23.1.1.48

Description: The number of PDSN session registrations denied due to mobile number authentication failure for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenPDSNHAAuth

Object ID: enterprises.8164.1.23.1.1.49

Description: The number of PDSN session registrations denied by the home agent for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenPDSNTooLong

Object ID: enterprises.8164.1.23.1.1.50

Description: The number of PDSN session registrations denied due to a life too lone indication for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object:	**starMIPFAStatRegDenPDSNBadReq**
Object ID:	enterprises.8164.1.23.1.1.51
Description:	The number of PDSN session registration denied due to a bad request indication for the associated Mobile IP foreign agent VPN service.
Syntax:	Counter32
Access:	Read-only

Object:	**starMIPFAStatRegDenPDSNEncapUnav**
Object ID:	enterprises.8164.1.23.1.1.52
Description:	The number of PDSN session registration denied due to no IP encapsulation available for the associated Mobile IP foreign agent VPN service.
Syntax:	Counter32
Access:	Read-only

Object:	**starMIPFAStatRegDeniedPDSNRevTunUnav**
Object ID:	enterprises.8164.1.23.1.1.53
Description:	The number of PDSN session registrations denied due to no reverse tunnel available for the associated Mobile IP foreign agent VPN service.
Syntax:	Counter32
Access:	Read-only

Object:	**starMIPFAStatRegDenPDSNRevTunMand**
Object ID:	enterprises.8164.1.23.1.1.54
Description:	The number of PDSN session registration denied due to reverse tunneling being mandatory for the associated Mobile IP foreign agent VPN service.
Syntax:	Counter32
Access:	Read-only

Object:	**starMIPFAStatRegDenHAFAAuth**

Object ID:	enterprises.8164.1.23.1.1.55
Description:	The number of session registrations denied by the home agent due to authentication failure for the associated Mobile IP foreign agent VPN service.
Syntax:	Counter32
Access:	Read-only

Object: starMIPFAStatRegDenHABadReq

Object ID:	enterprises.8164.1.23.1.1.56
Description:	The number of session registration denied by the home agent due to the request being invalid for the associated Mobile IP foreign agent VPN service.
Syntax:	Counter32
Access:	Read-only

Object: starMIPFAStatRegDenHAMismatchID

Object ID:	enterprises.8164.1.23.1.1.57
Description:	The number of session registrations denied by the home agent due to an ID mismatch for the associated Mobile IP foreign agent VPN service.
Syntax:	Counter32
Access:	Read-only

Object: starMIPFAStatRegDenHASimulBind

Object ID:	enterprises.8164.1.23.1.1.58
Description:	The number of session registrations denied by the home agent due to a simultaneous bind attempt for the associated Mobile IP foreign agent VPN service.
Syntax:	Counter32
Access:	Read-only

Object: starMIPFAStatRegDenHAUnknownHA

Object ID:	enterprises.8164.1.23.1.1.59

Description: The number of session registrations denied by the home agent for an unknown reason for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenHARevRunUnavail

Object ID: enterprises.8164.1.23.1.1.60

Description: The number of session registrations denied by the home agent due to no reverse tunnel being available for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplRcvTotal

Object ID: enterprises.8164.1.23.1.1.61

Description: The total number of session registration replies received for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplRcvTotalRly

Object ID: enterprises.8164.1.23.1.1.62

Description: The total number of session registration replies relayed for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplRcvErrors

Object ID: enterprises.8164.1.23.1.1.63

Description:

The number of session registration replies received indicating errors for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplRcvInitial

Object ID: enterprises.8164.1.23.1.1.64

Description: The number of initial session registration replies received for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplRcvInitialRly

Object ID: enterprises.8164.1.23.1.1.65

Description: The number of initial session registration replies relayed for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplRcvRenewal

Object ID: enterprises.8164.1.23.1.1.66

Description: The number of session registration renewal replies received for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplRcvRenewalRly

Object ID: enterprises.8164.1.23.1.1.67

Description: The number of session registration replies relayed received for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplRcvDereg

Object ID: enterprises.8164.1.23.1.1.68

Description: The number of session registration replies received indicating deregistration for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplRcvDeregRly

Object ID: enterprises.8164.1.23.1.1.69

Description: The number of session registration replies relayed indicating deregistration for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplSentTotal

Object ID: enterprises.8164.1.23.1.1.70

Description: The total number of session registration replies sent for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplSentAcceptReg

Object ID: enterprises.8164.1.23.1.1.71

Description: The number of session registration replies which were sent and accepted for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplSentAcceptDereg

Object ID: enterprises.8164.1.23.1.1.72

Description: The number of session registration replies which were sent and accepted indicating deregistration for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplSentBadReq

Object ID: enterprises.8164.1.23.1.1.73

Description: The number of session registration replies which were sent indicating the request was invalid for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplSentTooLong

Object ID: enterprises.8164.1.23.1.1.74

Description: The number of session registration replies which were sent indicating life too long for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplSentMnAuthFail

Object ID: enterprises.8164.1.23.1.1.75

Description: The number of session registration replies which were sent indicating mobile number authentication failure for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: **starMIPFAStatRegRplSentHAAuthFail**

Object ID: enterprises.8164.1.23.1.1.76

Description: The number of session registration replies which were sent indicating for home agent authentication failure the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: **starMIPFAStatRegRplSentAdminProhib**

Object ID: enterprises.8164.1.23.1.1.77

Description: The number of session registration replies which were sent indicating prohibited by the administrator for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: **starMIPFAStatRegRplSentNoResources**

Object ID: enterprises.8164.1.23.1.1.78

Description: The number of session registration replies which were sent indicating no resources available for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: **starMIPFAStatRegRplSentRevTunUnavail**

Object ID: enterprises.8164.1.23.1.1.79

Description: The number of session registration replies which were sent indicating no reverse tunnel available for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: **starMIPFAStatRegRplSentRevTunMand**

Object ID: enterprises.8164.1.23.1.1.80

Description: The number of session registration replies which were sent indicating reverse tunneling was mandatory for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplSentSendErrors

Object ID: enterprises.8164.1.23.1.1.81

Description: The number of session registration replies which were sent indicating there were errors in transmission for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenPDSNBadReply

Object ID: enterprises.8164.1.23.1.1.82

Description: The number of session registrations denied by PDSN due to bad reply from HA for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenPDSNMissNAI

Object ID: enterprises.8164.1.23.1.1.83

Description: The number of session registrations denied by PDSN due to missing NAI for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenPDSNMissHomeAgent

Object ID: enterprises.8164.1.23.1.1.84

Description: The number of session registrations denied by PDSN due to missing home agent for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenPDSNMissHomeAddr

Object ID: enterprises.8164.1.23.1.1.85

Description: The number of session registrations denied by PDSN due to missing home address for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenPDSNUnknChallenge

Object ID: enterprises.8164.1.23.1.1.86

Description: The number of session registrations denied by PDSN due to unknown challenge for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenPDSNMissChallenge

Object ID: enterprises.8164.1.23.1.1.87

Description: The number of session registrations denied by PDSN due to missing challenge for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenPDSNStaleChallenge

Object ID: enterprises.8164.1.23.1.1.88

Description:

The number of session registrations denied by PDSN due to stale challenge for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenPDSNMNTooDistant

Object ID: enterprises.8164.1.23.1.1.89

Description: The number of session registrations denied by PDSN due to MN too distant for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenPDSNStyleUnavail

Object ID: enterprises.8164.1.23.1.1.90

Description: The number of session registration denied by PDSN due to style not available for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenPDSNHANetUnreach

Object ID: enterprises.8164.1.23.1.1.91

Description: The number of session registrations denied by PDSN due to HA network unreachable for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenPDSNHAHostUnreach

Object ID: enterprises.8164.1.23.1.1.92

Description: The number of session registrations denied by PDSN due to HA host unreachable for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenPDSNHAPortUnreach

Object ID: enterprises.8164.1.23.1.1.93

Description: The number of session registrations denied by PDSN due to HA port unreachable for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenPDSNHAUnreach

Object ID: enterprises.8164.1.23.1.1.94

Description: The number of session registrations denied by PDSN due to HA unreachable for miscellaneous reasons for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegDenPDSNInvCOA

Object ID: enterprises.8164.1.23.1.1.95

Description: The number of session registrations denied by PDSN due to invalid COA for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegReqSentInitTotal

Object ID: enterprises.8164.1.23.1.1.96

Description: The number of initial session registrations for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegReqSentInitResend

Object ID: enterprises.8164.1.23.1.1.97

Description: The number of initial session registrations retried for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegReqSentRenewTotal

Object ID: enterprises.8164.1.23.1.1.98

Description: The number of renewal session registrations for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegReqSentRenewResend

Object ID: enterprises.8164.1.23.1.1.99

Description: The number of renewal session registrations retried for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegReqSentDeregTotal

Object ID: enterprises.8164.1.23.1.1.100

Description: The number of session deregistrations for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object:	starMIPFAStatRegReqSentDeregResend
Object ID:	enterprises.8164.1.23.1.1.101
Description:	The number of session deregistrations retried for the associated Mobile IP foreign agent VPN service.
Syntax:	Counter32
Access:	Read-only

Object:	starMIPFAStatRegRplSentMNTooDistant
Object ID:	enterprises.8164.1.23.1.1.102
Description:	The number of session registration reply that indicate MN too distant for the associated Mobile IP foreign agent VPN service.
Syntax:	Counter32
Access:	Read-only

Object:	starMIPFAStatRegRplSentInvCOA
Object ID:	enterprises.8164.1.23.1.1.103
Description:	The number of session registration reply that indicate invalid COA for the associated Mobile IP foreign agent VPN service.
Syntax:	Counter32
Access:	Read-only

Object:	starMIPFAStatRegRplSentHANetUnreach
Object ID:	enterprises.8164.1.23.1.1.104
Description:	The number of session registration reply that indicate HA network unreachable for the associated Mobile IP foreign agent VPN service.
Syntax:	Counter32
Access:	Read-only

Object:	starMIPFAStatRegRplSentHAHostUnreach

Object ID: enterprises.8164.1.23.1.1.105

Description: The number of session registration reply that indicate HA host unreachable for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplSentHAPortUnreach

Object ID: enterprises.8164.1.23.1.1.106

Description: The number of session registration reply that indicate HA port unreachable for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplSentHAUnreach

Object ID: enterprises.8164.1.23.1.1.107

Description: The number of session registration reply that indicate HA unreachable due to miscellaneous reasons for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplSentRegTimeout

Object ID: enterprises.8164.1.23.1.1.108

Description: The number of session registration reply that indicate registration time out for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplSentMissNAI

Object ID: enterprises.8164.1.23.1.1.109

Description: The number of session registration reply that indicate NAI missing for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplSentMissHomeAgent

Object ID: enterprises.8164.1.23.1.1.110

Description: The number of session registration reply that indicate HA missing for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplSentMissHomeAddr

Object ID: enterprises.8164.1.23.1.1.111

Description: The number of session registration reply that indicate home address missing for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplSentUnknChallenge

Object ID: enterprises.8164.1.23.1.1.112

Description: The number of session registration reply that indicate unknown challenge for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplSentMissChallenge

Object ID: enterprises.8164.1.23.1.1.113

Description:

The number of session registration reply that indicate challenge missing for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplSentStaleChallenge

Object ID: enterprises.8164.1.23.1.1.114

Description: The number of session registration reply that indicate stale challenge for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

Object: starMIPFAStatRegRplSentBadReply

Object ID: enterprises.8164.1.23.1.1.115

Description: The number of session registration reply that indicate bad reply for the associated Mobile IP foreign agent VPN service.

Syntax: Counter32

Access: Read-only

starentMIB(8164).starentMIBObjects(1).starentRP(24)

Object: starRPStatTable

Object ID: enterprises.8164.1.24.1

Description: A table containing the R-P interface statistics.

Syntax: Sequence of starMIPFAStatEntry

Access: Not-accessible

Description: A table containing MIP FA statistics

Object:

starRPStatEntry

Object ID: enterprises.8164.1.24.1.1

Description: The statistics for a specific R-P VPN (context) service.

Syntax: starRPStatEntry

Access: Not-accessible

Sequence: starRPStatVpnID
starRPStatSvcID Index (Implied)
starRPStatVpnName
starRPStatServName
starRPRegRecvTotal
starRPRegAcceptTotal
starRPRegDeniedTotal
starRPRegDiscardTotal
starRPRegAcceptInitial
starRPRegAcceptIntraPDSN
starRPRegAcceptInterPDSN
starRPRegDeniedInitial
starRPRegAcceptRenew
starRPRegDeniedRenew
starRPRegAcceptDereg
starRPRegDeniedDereg
starRPRegSendError
starRPRegHashError
starRPRegDecodeError
starRPRegUnhandled
starRPRegAirlinkSeqError
starRPRegDenyUnspec
starRPRegDenyAdminProhib
starRPRegDenyNoResource
starRPRegDenyAuth
starRPRegDenyMismatchID
starRPRegDenyBadRequest
starRPRegDenyUnknownPDSN
starRPRegDenyRevTunUnav

starRPRegDenyRevTunReq
starRPRegDenyUnrecogVend
starRPRegUpdTotal
starRPRegUpdAccept
starRPRegUpdDenied
starRPRegUpdUnack
starRPRegUpdTrans
starRPRegUpdRetrans
starRPRegUpdReceived
starRPRegUpdDiscard
starRPRegUpdSendError
starRPRegUpdUplyrInit
starRPRegUpdOther
starRPRegUpdHandoff
starRPRegUpdDenyUnspec
starRPRegUpdDenyAdminProhib
starRPRegUpdDenyAuth
starRPRegUpdDenyMismatchID
starRPRegUpdDenyBadRequest
starRPSecViolations
starRPSecBadAuth
starRPSecBadID
starRPSecBadSpi
starRPSecMissingMnHAAuth
starRPSecMissingRegUpdate
starRPRegRecvInitial
starRPRegAcceptActvStartIntraPDSN
starRPRegAcceptActvStopIntraPDSN
starRPRegRecvRenew
starRPRegActvStartRenew
starRPRegActvStopRenew
starRPRegRecvDereg
starRPRegAcceptActvStopDereg
starRPDiscSessAbsent
starRPDiscNoMemory
starRPDiscMalformed
starRPDiscAuthFail

starRPDiscInternalBounce

starRPDiscInpuQueueExceeded

starRPDiscMismatchedId

starRPDiscInvPacketLen

starRPDiscMisc

Object: **starRPStatVpnID**

Object ID: enterprises.8164.1.24.1.1.1

Description: The internal identification of the R-P VPN (context).

Syntax: Gauge32

Access: Read-only

Object: **starRPStatSvcID**

Object ID: enterprises.8164.1.24.1.1.2

Description: The service identification is made up from first 8 chars of context name and first 8 chars of service name separated by (:).

Syntax: StarShortID

Access: Not-accessible

Object: **starRPStatVpnName**

Object ID: enterprises.8164.1.24.1.1.3

Description: The R-P VPN (context) name.

Syntax: DisplayString

Access: Read-only

Object: **starRPStatServName**

Object ID: enterprises.8164.1.24.1.1.4

Description: The R-P service name.

Syntax: DisplayString

Access:

Read-only

Object: starRPRegRecvTotal

Object ID: enterprises.8164.1.24.1.1.5

Description: The total number of session registrations received for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegAcceptTotal

Object ID: enterprises.8164.1.24.1.1.6

Description: The total number of session registrations accepted for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegDeniedTotal

Object ID: enterprises.8164.1.24.1.1.7

Description: The total number of session registrations denied for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegDiscardTotal

Object ID: enterprises.8164.1.24.1.1.8

Description: The total number of session registrations discarded for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegAcceptInitial

Object ID: enterprises.8164.1.24.1.1.9

Description: The total number of initial session registrations accepted for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegAcceptIntraPDSN

Object ID: enterprises.8164.1.24.1.1.10

Description: The number of Intra-PDSN session registrations accepted for the associated R-P VPN service.

Syntax: Gauge32

Access: Read-only

IMPORTANT: Status of this alarm is obsolete.

Object: starRPRegAcceptInterPDSN

Object ID: enterprises.8164.1.24.1.1.11

Description: The number of Inter-PDSN session registrations accepted for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegDeniedInitial

Object ID: enterprises.8164.1.24.1.1.12

Description: The number of initial session registrations denied for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegAcceptRenew

Object ID: enterprises.8164.1.24.1.1.13

Description: The number of session registration renewals accepted for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegDeniedRenew

Object ID: enterprises.8164.1.24.1.1.14

Description: The number of session registration renewals denied for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegAcceptDereg

Object ID: enterprises.8164.1.24.1.1.15

Description: The number of session deregistrations accepted for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegDeniedDereg

Object ID: enterprises.8164.1.24.1.1.16

Description: The number of session deregistrations denied accepted for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegSendError

Object ID: enterprises.8164.1.24.1.1.17

Description: The number of session registrations with errors in transmission for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegHashError

Object ID: enterprises.8164.1.24.1.1.18

Description: The number of session registrations with hash errors for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegDecodeError

Object ID: enterprises.8164.1.24.1.1.19

Description: The number of session registrations with decode errors for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegUnhandled

Object ID: enterprises.8164.1.24.1.1.20

Description: The number of session registrations not processed for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegAirlinkSeqError

Object ID: enterprises.8164.1.24.1.1.21

Description: The number of session registrations with air link sequence errors for the associated R-P VPN service.

Syntax: Counter32

Access:

Read-only

Object: starRPRegDenyUnspec

Object ID: enterprises.8164.1.24.1.1.22

Description: The number of session registrations denied for an unspecified reason for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegDenyAdminProhib

Object ID: enterprises.8164.1.24.1.1.23

Description: The number of session registrations denied due to administrator prohibition for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegDenyNoResource

Object ID: enterprises.8164.1.24.1.1.24

Description: The number of session registrations denied due to no resources available for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegDenyAuth

Object ID: enterprises.8164.1.24.1.1.25

Description: The number of session registrations denied due to authentication failure for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object:

starRPRegDenyMismatchID

Object ID: enterprises.8164.1.24.1.1.26

Description: The number of session registrations denied due to an ID mismatch for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegDenyBadRequest

Object ID: enterprises.8164.1.24.1.1.27

Description: The number of session registrations denied due to the request being invalid for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegDenyUnknownPDSN

Object ID: enterprises.8164.1.24.1.1.28

Description: The number of session registrations denied due to the packet data service not being recognized for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegDenyRevTunUnav

Object ID: enterprises.8164.1.24.1.1.29

Description: The number of session registrations denied due to no reverse tunnel being available for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegDenyRevTunReq

Object ID:

enterprises.8164.1.24.1.1.30

Description: The number of session registrations denied due to reverse tunneling being mandatory for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegDenyUnrecogVend

Object ID: enterprises.8164.1.24.1.1.31

Description: The number of session registrations denied due to the vendor not being recognized for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegUpdTotal

Object ID: enterprises.8164.1.24.1.1.32

Description: The total number of session registration updates for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegUpdAccept

Object ID: enterprises.8164.1.24.1.1.33

Description: The number of session registration updates which were accepted for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegUpdDenied

Object ID: enterprises.8164.1.24.1.1.34

Description: The number of session registration updates denied for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegUpdUnack

Object ID: enterprises.8164.1.24.1.1.35

Description: The number of session registration updates which were not acknowledged for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegUpdTrans

Object ID: enterprises.8164.1.24.1.1.36

Description: The number of session registration updates sent for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegUpdRetrans

Object ID: enterprises.8164.1.24.1.1.37

Description: The number of session registration updates resent for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegUpdReceived

Object ID: enterprises.8164.1.24.1.1.38

Description: The number of session registration updates received for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object:	starRPRegUpdDiscard
Object ID:	enterprises.8164.1.24.1.1.39
Description:	The number of session registration updates discarded for the associated R-P VPN service.
Syntax:	Counter32
Access:	Read-only

Object:	starRPRegUpdSendError
Object ID:	enterprises.8164.1.24.1.1.40
Description:	The number of session registration updates with errors in transmission for the associated R-P VPN service.
Syntax:	Counter32
Access:	Read-only

Object:	starRPRegUpdUplyrInit
Object ID:	enterprises.8164.1.24.1.1.41
Description:	The number of session registration updates with up-link re-initializations.
Syntax:	Counter32
Access:	Read-only

Object:	starRPRegUpdOther
Object ID:	enterprises.8164.1.24.1.1.42
Description:	The number of session registration updates with a reason of ‘other’ for the associated R-P VPN service.
Syntax:	Counter32
Access:	Read-only

Object:	starRPRegUpdHandoff
Object ID:	

enterprises.8164.1.24.1.1.43

Description: The number of session registration updates due to a mobile hand-off for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegUpdDenyUnspec

Object ID: enterprises.8164.1.24.1.1.44

Description: The number of session registration updates denied for an unspecified reason for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegUpdDenyAdminProhib

Object ID: enterprises.8164.1.24.1.1.45

Description: The number of session registration updates denied due to administrator prohibition for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegUpdDenyAuth

Object ID: enterprises.8164.1.24.1.1.46

Description: The number of session registration updates denied due to authentication failure for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegUpdDenyMismatchID

Object ID: enterprises.8164.1.24.1.1.47

Description:

The number of session registration updates denied due to an ID mismatch for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegUpdDenyBadRequest

Object ID: enterprises.8164.1.24.1.1.48

Description: The number of session registration updates denied due to the request being invalid for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPSecViolations

Object ID: enterprises.8164.1.24.1.1.49

Description: The total number of session security violations for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPSecBadAuth

Object ID: enterprises.8164.1.24.1.1.50

Description: The total number of session security authentication violations for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPSecBadID

Object ID: enterprises.8164.1.24.1.1.51

Description: The total number of session security ID violations for the associated R-P VPN service.

Syntax: Counter32

Access:	Read-only

Object: starRPSecBadSpi

Object ID:	enterprises.8164.1.24.1.1.52
Description:	The total number of session security SPI violations for the associated R-P VPN service.
Syntax:	Counter32
Access:	Read-only

Object: starRPSecMissingMnHAAuth

Object ID:	enterprises.8164.1.24.1.1.53
Description:	The total number of session security missing mobile number home agent authentication violations for the associated R-P VPN service.
Syntax:	Counter32
Access:	Read-only

Object: starRPSecMissingRegUpdate

Object ID:	enterprises.8164.1.24.1.1.54
Description:	The total number of session missing registration update violations for the associated R-P VPN service.
Syntax:	Counter32
Access:	Read-only

Object: starRPRegRecvInitial

Object ID:	enterprises.8164.1.24.1.1.55
Description:	The total number of initial session registration for the associated R-P VPN service.
Syntax:	Counter32
Access:	Read-only

Object:

starRPRegAcceptActvStartIntraPDSN

Object ID: enterprises.8164.1.24.1.1.56

Description: The number of accepted registration request during intra-PDSN handoffs which contains active start for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegAcceptActvStopIntraPDSN

Object ID: enterprises.8164.1.24.1.1.57

Description: The number of accepted registration request during intraPDSN handoff which contains active stop for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegRecvRenew

Object ID: enterprises.8164.1.24.1.1.58

Description: The number of received renew registration request for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegActvStartRenew

Object ID: enterprises.8164.1.24.1.1.59

Description: The number of received renew registration request that contains active start for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegActvStopRenew

Object ID:

enterprises.8164.1.24.1.1.60

Description: The number of received renew registration request that contains active stop for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegRecvDereg

Object ID: enterprises.8164.1.24.1.1.61

Description: The number of received deregistration request for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPRegAcceptActvStopDereg

Object ID: enterprises.8164.1.24.1.1.62

Description: The number of accepted deregistration request that contains active stop for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPDiscSessAbsent

Object ID: enterprises.8164.1.24.1.1.63

Description: The number of registration request discarded due to no session for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPDiscNoMemory

Object ID: enterprises.8164.1.24.1.1.64

Description:

The number of registration request discarded due to no memory for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPDiscMalformed

Object ID: enterprises.8164.1.24.1.1.65

Description: The number of registration request discarded because malformed for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPDiscAuthFail

Object ID: enterprises.8164.1.24.1.1.66

Description: The number of registration request discarded because authentication failed for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPDiscInternalBounce

Object ID: enterprises.8164.1.24.1.1.67

Description: The number of registration request discarded because internal bounce for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPDiscInpuQueueExceeded

Object ID: enterprises.8164.1.24.1.1.68

Description: The number of registration request discarded because internal queue exceeded for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPDiscMismatchedId

Object ID: enterprises.8164.1.24.1.1.69

Description: The number of registration request discarded because mismatched ID for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPDiscInvPacketLen

Object ID: enterprises.8164.1.24.1.1.70

Description: The number of registration request discarded because invalid packet length for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

Object: starRPDiscMisc

Object ID: enterprises.8164.1.24.1.1.71

Description: The number of registration request discarded due to misc. reasons for the associated R-P VPN service.

Syntax: Counter32

Access: Read-only

starentMIB(8164).starentMIBObjects(1).starentSubscriber(26)

The objects in this table are not accessible via SNMP. They are intended for use within traps.

Object: starSubTable

Object ID:

enterprises.8164.1.26.1

Description: A table containing subscriber information.

Syntax: SEQUENCE OF starSubEntry

Access: Not-accessible

Object: starSubEntry

Object ID: enterprises.8164.1.26.1.1

Description: Information for a specific Subscriber.

Syntax: starSubEntry

Access: Not-accessible

Sequence: starSubContext
starSubMSID Index
starSubName Index
starSubTimerDuration
starSubLongDurTimeoutAction
starSubSetupTime
starSubHomeAddr
starSubHomeAddrv6

Object: starSubContext

Object ID: enterprises.8164.1.26.1.1.1

Description: The context the subscriber is in.

Syntax: DisplayString

Access: accessible-for-notify

Object: starSubMSID

Object ID: enterprises.8164.1.26.1.1.2

Description: The MSID of the subscriber.

Syntax: OCTET STRING (SIZE (1..16))

Access: Not-accessible

Object: starSubName

Object ID: enterprises.8164.1.26.1.1.3

Description: The name of the subscriber.

Syntax: OCTET STRING (SIZE (1..128))

Access: Not-accessible

Object: starSubTimerDuration

Object ID: enterprises.8164.1.26.1.1.4

Description: The length of the long-duration timer in seconds

Syntax: Unsigned32

Access: Read-only

Object: starSubLongDurTimeoutAction

Object ID: enterprises.8164.1.26.1.1.5

Description: he action taken by the system upon detection of a long-duration session.

Syntax: StarLongDurTimeoutAction

Access: Read-only

Object: starSubSetupTime

Object ID: enterprises.8164.1.26.1.1.6

Description: The time when the call was setup.

Syntax: DateAndTime

Access: Read-only

Object: starSubHomeAddr

Object ID: enterprises.8164.1.26.1.1.7

Description: The IPv4 home address.

Syntax: IPv4Address

Access: Read-only

Object: starSubHomeAddrv6

Object ID: enterprises.8164.1.26.1.1.8

Description: The IPv6 home address.

Syntax: IPv6Address

Access: Read-only

starentMIB(8164).starentMIBObjects(1).starentEISServer(27)

The objects in this table are not accessible via SNMP. They are intended for use within traps.

Object: starEISServerTable

Object ID: enterprises.8164.1.27.1

Description: A table containing EIS Server information.

Syntax: SEQUENCE OF StarEISServerEntry

Access: Not-accessible

Object: starEISServerEntry

Object ID: enterprises.8164.1.27.1.1

Description: Information for a specific EIS Server.

Syntax: StarEISServerEntry

Access: Not-accessible

Sequence: starEISServerVPNID Index
starEISServerAddr Index

starEISServerVPNName

Object: **starEISServerVPNID**

Object ID: enterprises.8164.1.27.1.1.1

Description: The VPN ID for the EIS Server.

Syntax: Gauge32

Access: Not-accessible

Object: **starEISServerAddr**

Object ID: enterprises.8164.1.27.1.1.2

Description: The IP Address for the EIS Server.

Syntax: IpAddress

Access: Not-accessible

Object: **starEISServerVPNName**

Object ID: enterprises.8164.1.27.1.1.3

Description: The VPN Name for this EIS Server.

Syntax: DisplayString

Access: Accessible-for-notify

starentMIB(8164).starentMIBObjects(1).starentThresholds(28)

The objects in this table are not accessible via SNMP. They are intended for use within traps.

Object: **starThreshMeasuredPct**

Object ID: enterprises.8164.1.28.1

Description: The measured value of a thresholded parameter.

Syntax: INTEGER32(0..100)

Access:

Accessible-for-notify

Object: starThreshPct

Object ID: enterprises.8164.1.28.2

Description: The configured value of a thresholded parameter.

Syntax: INTEGER32(0..100)

Access: Accessible-for-notify

Object: starThreshMeasuredInt

Object ID: enterprises.8164.1.28.3

Description: The measured value of a thresholded parameter.

Syntax: Guage32

Access: Accessible-for-notify

Object: starThreshInt

Object ID: enterprises.8164.1.28.4

Description: The configured value of a thresholded parameter.

Syntax: Unsigned32

Access: Accessible-for-notify

Object: starThreshMeasuredMB

Object ID: enterprises.8164.1.28.5

Description: The measured value of a thresholded parameter.

Syntax: Guard32

Units: Megabytes

Access: Accessible-for-notify

Object: starThreshMB

Object ID:

enterprises.8164.1.28.6

Description: The configured value of a thresholded parameter

Syntax: Unsigned32

Units: Megabytes

Access: Accessible-for-notify

Object: starThreshMeasuredGB

Object ID: enterprises.8164.1.28.7

Description: The configured value of a thresholded parameter.

Syntax: Gauge32

Units: Gigabytes

Access: Accessible-for-notify

Object: starThreshGB

Object ID: enterprises.8164.1.28.8

Description: The configured value of a thresholded parameter.

Syntax: Unsigned32

Units: Gigabytes

Access: Accessible-for-notify

starentMIB(8164).starentMIBObjects(1).starentPort(29)

Object: starPortTable

Object ID: enterprises.8164.1.29.1

Description: A table containing Port information.

Syntax: SEQUENCE OF starPortEntry

Access: Not-accessible

Object: starPortEntry

Object ID: enterprises.8164.1.29.1.1

Description: Information for a specific Port

Syntax: starPortEntry

Access: Not-accessible

Sequence:

starPortSlot Integer32
starPortNum integer32
starPortType INTEGER
starPortTypeDescr DisplayString
starPortAdminState INTEGER
starPortOperState INTEGER
starPortOperMode INTEGER
starPortLinkState INTEGER
starRedundantPortSlot integer32
starRedundantPortNum integer32
starPortRXByte Counter32
starPortTXByte Counter32
starPortRXFrames Counter32
starPortTXFrames Counter32
starPortRxDiscards Counter32
starPortTxDiscards Counter32
starPortRxErrors Counter32
starPortTxErrors Counter32

Object: starPortSlot

Object ID: enterprises.8164.1.29.1.1.1

Description: The Slot number for this port.

Syntax: Integer32(1..48)

Access: Not-accessible

Object: **starPortNum**

Object ID: enterprises.8164.1.29.1.1.2

Description: The Port number within this slot.

Syntax: Integer32(1..8)

Access: Not-accessible

Object: **starPortType**

Object ID: enterprises.8164.1.29.1.1.3

Description: The type of the port.

Syntax: INTEGER

Access: Read-only

Enumeration:
none(0)
ethernet10100(1)
ethernet1000dualmedia(2)
ethernet1000(3)
ds3(4)
oc3(5)
oc3atm(6)
ds3e(7)
rs232(8)
bits1e1(9)
virtualEthernet(10)

Object: **starPortTypeDescr**

Object ID: enterprises.8164.1.29.1.1.4

Description: A textual representation of the starPortType attribute

Syntax: DisplayString

Access: Read-only

Object:

starPortAdminState

Object ID: enterprises.8164.1.29.1.1.5

Description: The administrative start of the port

Syntax: INTEGER

Access: Read-only

Enumeration: unknown(0)
enabled(1)
disabled(2)

Object: starPortOperState

Object ID: enterprises.8164.1.29.1.1.6

Description: The operation status of the port

Syntax: INTEGER

Access: Read-only

Enumeration: unknown(0)
up(1)
down(2)
notapplicable(3)

Object: starPortOperMode

Object ID: enterprises.8164.1.29.1.1.7

Description: The operation mode of the port

Syntax: INTEGER

Access: Read-only

Enumeration: unknown(0)
active(1)
standby(2)

Object: starPortLinkState

Object ID: enterprises.8164.1.29.1.1.8

Description: The link status of the port

Syntax: INTEGER

Access: Read-only

Enumeration: unknown(0)
up(1)
down(2)

Object: starRedundantPortSlot

Object ID: enterprises.8164.1.29.1.1.9

Description: The slot number of the redundant port for the current port.

Syntax: Integer32(1..48)

Access: Read-only

Object: starRedundantPortNum

Object ID: enterprises.8164.1.29.1.1.10

Description: The port number of the redundant port for the current port

Syntax: Integer32(1..8)

Access: Read-only

Object: starPortRXBytes

Object ID: enterprises.8164.1.29.1.1.11

Description: The number of bytes successfully received, in megabytes.
For ports of type rs232(8) for bitst1e1(9) this value will always be zero.

Syntax: Counter32

Access: Read-only

Object: starPortTXBytes

Object ID: enterprises.8164.1.29.1.1.12

Description: The number of bytes successfully transmitted in megabytes. For ports of type rs232(8) for bitst1e1(9) this value will always be zero.

Syntax: Counter32

Access: Read-only

Object: starPortRXFrames

Object ID: enterprises.8164.1.29.1.1.13

Description: The number of frames successfully received, in thousands. For ports of type rs232(8) for bitst1e1(9) this value will always be zero and for ports of type oc3atm(5) and oc12atm(6) this is the count of cells received.

Syntax: Counter32

Access: Read-only

Object: starPortTXFrames

Object ID: enterprises.8164.1.29.1.1.14

Description: The number of frames successfully transmitted, in thousands. For ports of type rs232(8) for bitst1e1(9) this value will always be zero and for ports of type oc3atm(5) and oc12atm(6) this is the count of cells received..

Syntax: Counter32

Access: Read-only

Object: starPortRxDiscards

Object ID: enterprises.8164.1.29.1.1.15

Description: The number of inbound packets which were chosen to be discarded even though no errors had been detected to prevent their being deliverable to a higher-layer protocol. One possible reason for discarding such a packet could be to free up buffer space.

Syntax: Counter32

Access: read-only

Object:

starPortTxDiscards

Object ID:	enterprises.8164.1.29.1.1.16
Description:	The number of outbound packets which were chosen to be discarded even though no errors had been detected to prevent their being transmitted. One possible reason for discarding such a packet could be to free up buffer space.
Syntax:	Counter32
Access:	read-only

Object: starPortRxErrors

Object ID:	enterprises.8164.1.29.1.1.17
Description:	The number of inbound packets that contained errors preventing them from being deliverable to a higher-layer protocol.
Syntax:	Counter32
Access:	read-only

Object: starPortTxErrors

Object ID:	enterprises.8164.1.29.1.1.18
Description:	The number of outbound packets that could not be transmitted because of errors.
Syntax:	Counter32
Access:	read-only
Units:	Thousands

starentMIB(8164).starentMIBObjects(1).starentIPPool(30)

Object: starIPPoolTable

Object ID:	enterprises.8164.1.30.1
Description:	A table containing IP Pool information.
Syntax:	SEQUENCE OF StarIPPoolEntry

Access: Not-accessible

Object: starIPPoolEntry

Object ID: enterprises.8164.1.30.1.1

Description: Information for a specific IP Pool

Syntax: StarIPPoolEntry

Access: Not-accessible

Sequence:

starIPPoolVpnID	Gauge32
starIPPoolID	StarMediumID
starIPPoolContext	DisplayString
starIPPoolGroup	DisplayString
starIPPoolName	OCTET STRING
starIPPoolType	INTEGER
starIPPoolState	INTEGER
starIPPoolStartAddr	IpAddress
starIPPoolMaskorEndAddr	IpAddress
starIPPoolPriority	Integer32
starIPPoolUsed	Gauge32
starIPPoolHold	Gauge32
starIPPoolRelease	Gauge32
starIPPoolFree	Gauge32

Object: starIPPoolVpnID

Object ID: enterprises.8164.1.30.1.1.1

Description: The context ID for this pool.

Syntax: Gauge32

Access: Read-only

Object: starIPPoolID

Object ID: enterprises.8164.1.30.1.1.2

Description:

The service identification is made up from first 16 chars of context name and first 8 chars of pool name separated by (:).

Syntax: StarMediumID

Access: Not-accessible

Object: starIPPoolContext

Object ID: enterprises.8164.1.30.1.1.3

Description: The context for this pool.

Syntax: DisplayString

Access: Not-accessible

Object: starIPPoolGroup

Object ID: enterprises.8164.1.30.1.1.4

Description: The name of the group to which the IP pool belongs.

Syntax: DisplayString

Access: Not-accessible

Object: starIPPoolName

Object ID: enterprises.8164.1.30.1.1.5

Description: The name of the IP pool.

Syntax: OCTET STRING (SIZE (1..32))

Access: Not-accessible

Object: starIPPoolType

Object ID: enterprises.8164.1.30.1.1.6

Description: The type of the pool.

Syntax: INTEGER

Access: Read-only

Enumeration: unknown(0)
private(1)
public(2)
static(3)
resource(4),
nat(5)

Object: starIPPoolState

Object ID: enterprises.8164.1.30.1.1.7

Description: The state of the pool.

Syntax: INTEGER

Access: Read-only

Enumeration: unknown(0)
good(1)
pendingdelete(2)
alarm(3)
resize(4)
inactive(5)

Object: starIPPoolStartAddr

Object ID: enterprises.8164.1.30.1.1.8

Description: The start IP address of the pool.

Syntax: IpAddress

Access: Read-only

Object: starIPPoolMaskorEndAddr

Object ID: enterprises.8164.1.30.1.1.9

Description: The mask or end IP address of the pool.

Syntax: IpAddress

Access:

Read-only

Object: **starIPPoolPriority**

Object ID: enterprises.8164.1.30.1.1.10

Description: The priority of the pool.

Syntax: Integer32

Access: Read-only

Object: **starIPPoolUsed**

Object ID: enterprises.8164.1.30.1.1.11

Description: The number of IP addresses in USED state in the pool.

Syntax: Gauge32

Access: Read-only

Object: **starIPPoolHold**

Object ID: enterprises.8164.1.30.1.1.12

Description: The number of IP addresses in HOLD state in the pool.

Syntax: Gauge32

Access: Read-only

Object: **starIPPoolRelease**

Object ID: enterprises.8164.1.30.1.1.13

Description: The number of IP addresses in RELEASE state in the pool.

Syntax: Gauge32

Access: Read-only

Object: **starIPPoolFree**

Object ID: enterprises.8164.1.30.1.1.14

Description:

The number of IP addresses in FREE state in the pool.

Syntax: Gauge32

Access: Read-only

starentMIB(8164).starentMIBObjects(1).starentTrapData(31)

Object: starCongestionPolicy

Object ID: enterprises.8164.1.31.1

Description: The policy invoked for congestion events.

Syntax: INTEGER

Access: Not-accessible

Objects:
reject(1)
redirect(2)
drop(3)

Object: starCongestionResourceType

Object ID: enterprises.8164.1.31.2

Description: The resource type for a congestion event.

Syntax: INTEGER

Access: Not-accessible

Objects:
systemcpu(1)
servicecpu(2)
averagememory(3)
queuesize(4)
queuedelay(5)
license(6)
portutil(7)
rxportutill(8)
txportutil(9)
rxperportutil(10)
txperportutil(11)
servicecapacity(12)

Object:

starPTACConfig

Object ID: enterprises.8164.1.31.3

Description: The number of PACs/PSCs/TACs configured in the system.

Syntax: Integer32(0..14)

Access: Not-accessible

Object: starPTACActive

Object ID: enterprises.8164.1.31.4

Description: The number of PACs/PSCs/TACs active in the system.

Syntax: Integer32(0..14)

Access: Not-accessible

Object: starContextName

Object ID: enterprises.8164.1.31.5

Description: The name of a context configured on the system.

Syntax: DisplayString

Access: Not-accessible

Object: starInterfaceName

Object ID: enterprises.8164.1.31.6

Description: The name of an interface.

Syntax: DisplayString

Access: Not-accessible

Object: starPCFAddress

Object ID: enterprises.8164.1.31.7

Description: The IP address of a PCF.

Syntax:

IpAddress

Access: Not-accessible

Object: starPeerAddress

Object ID: enterprises.8164.1.31.8

Description: Peer Address

Syntax: IpAddress

Access: Not-accessible

Object: starLicensedSessions

Object ID: enterprises.8164.1.31.9

Description: The number of sessions enabled by the software license.

Syntax: Unsigned32

Access: Accessible-for-notify

Object: starCurrentSessions

Object ID: enterprises.8164.1.31.10

Description: The number of current sessions in use against a software license.

Syntax: Gauge32

Access: Accessible-for-notify

Object: starL3Address

Object ID: enterprises.8164.1.31.11

Description: L3 Address

Syntax: IpAddress

Access: Not-accessible

Object: starUDPPortNum

Object ID:

enterprises.8164.1.31.12

Description: UDP Port Number

Syntax: Integer32(1..65535)

Access: Not-accessible

Object: starSRPIPAddress

Object ID: enterprises.8164.1.31.13

Description: SRP IP Address

Syntax: IpAddress

Access: Not-accessible

Object: starBGPPeerIPAddress

Object ID: enterprises.8164.1.31.14

Description: BGP Peer IP Address

Syntax: IpAddress

Access: Not-accessible

Object: starContFiltCFFilename

Object ID: enterprises.8164.1.31.15

Description: File name for the Optimized Content Rating Database (OPTCMDB)

Syntax: DisplayString

Access: Not-accessible

Object: starContFiltCFErrorCode

Object ID: enterprises.8164.1.31.16

Description: Error code.

Syntax: Integer32

Access: Not-accessible

Object: starFetchedFromAAAMgr

Object ID: enterprises.8164.1.31.17

Description: The total number of calls fetched from AAA Manager

Syntax: Integer32

Access: Read-only

Object: starPriorToAudit

Object ID: enterprises.8164.1.31.18

Description: The number calls prior to audit

Syntax: Integer32

Access: Read-only

Object: starPassedAudit

Object ID: enterprises.8164.1.31.19

Description: The number calls prior to audit

Syntax: Integer32

Access: Read-only

Object: starCallsRecovered

Object ID: enterprises.8164.1.31.20

Description: The number calls recovered

Syntax: Integer32

Access: Read-only

Object: starA11CallLines

Object ID: enterprises.8164.1.31.21

Description: The number of A11 call lines

Syntax: Integer32

Access: Read-only

Object: starElapsedMs

Object ID: enterprises.8164.1.31.22

Description: The audit time elapsed in milli-seconds

Syntax: Integer32

Access: Read-only

Object: starCDRFilename

Object ID: enterprises.8164.1.31.23

Description: The name of a CDR (EDR/UDR) file.

Syntax: DisplayString

Access: Not-accessible

Object: starDiameterVpnName

Object ID: enterprises.8164.1.31.24

Description: Diameter VPN (Context) Name

Syntax: DisplayString

Access: Accessible-for-notify

Object: starDiameterPeerAddr

Object ID: enterprises.8164.1.31.25

Description: Diameter Peer Address

Syntax: IpAddress

Access: Accessible-for-notify

Object:	**starDiameterEndpointName**
Object ID:	enterprises.8164.1.31.26
Description:	Diameter Endpoint Name
Syntax:	DisplayString
Access:	Accessible-for-notify

Object:	**starInterfaceIPAddress**
Object ID:	enterprises.8164.1.31.27
Description:	Interface IP Address
Syntax:	IpAddress
Access:	Accessible-for-notify

Object:	**starOSPFNeighborRouterID**
Object ID:	enterprises.8164.1.31.28
Description:	Interface IP Address
Syntax:	IpAddress
Access:	Accessible-for-notify

Object:	**starOSPFFromState**
Object ID:	enterprises.8164.1.31.29
Description:	FROM state for OSPF Neighbor
Syntax:	StarOSPFNeighborState
Access:	Accessible-for-notify

Object:	**starOSPFToState**
Object ID:	enterprises.8164.1.31.30
Description:	TO state for OSPF Neighbor

Syntax: StarOSPFNeighborState

Access: Accessible-for-notify

Object: starDiameterEncoderString

Object ID: enterprises.8164.1.31.31

Description: Diameter Cause Code String

Syntax: DisplayString

Access: Accessible-for-notify

Object: starDiameterECode

Object ID: enterprises.8164.1.31.33

Description: Diameter Cause code

Syntax: Integer

Access: Accessible-for-notify

Enumeration: notcomplete(1)
hostnamemismatch(2)
hostrealmismatch(3)
securitymismatch(4)
tlscertificateerror(5)
tlshandshakeerror(6)
authappidmismatch(7)

Object: starDiameterPeerAddrIpv6

Object ID: enterprises.8164.1.31.34

Description: Diameter Peer Address

Syntax: Ipv6Address

Access: accessible-for-notify

Object: starContFiltCFUpgradeFilename

Object ID: enterprises.8164.1.31.35

Description: File name for the Full or Incremental OPTCMDB

Syntax: DisplayString

Access: not-accessible

Object: starContFiltCFUpgradeErrorCode

Object ID: enterprises.8164.1.31.36

Description: Error code

Syntax: unknownerror(1)
upgradefullfailure(2)
upgradeincrfailure(3)

Access: not-accessible

Object: starBLUpgradeFilename

Object ID: enterprises.8164.1.31.37

Description: File name for the Full OPTBLDB

Syntax: DisplayString

Access: not-accessible

Object: starBLUpgradeErrorCode

Object ID: enterprises.8164.1.31.38

Description: Error code

Syntax: unknownerror(1)
upgradefullfailure(2)

Access: not-accessible

Object: starDynPkgFilename

Object ID: enterprises.8164.1.31.39

Description: File name for the DynPkg

Syntax: DisplayString

Access: not-accessible

Object: starDynCFErrorCode

Object ID: enterprises.8164.1.31.40

Description: Error code

Syntax: unknownerror(1)
notavailable(2)
loadfailure(3)

Access: not-accessible

Object: starDynPkgUpgradeFilename

Object ID: enterprises.8164.1.31.41

Description: File name for the Full DynPkg

Syntax: DisplayString

Access: not-accessible

Object: starDynCFUpgradeErrorCode

Object ID: enterprises.8164.1.31.42

Description: Error code

Syntax: unknownerror(1)
upgradefullfailure(2)

Access: not-accessible

Object: starCscfSessCongestionResourceType

Object ID: enterprises.8164.1.31.43

Description: Cscf Session resource type for a congestion event

Syntax: cpu(1)
memory(2)

Access: not-accessible

Object: starSmgrId

Object ID: enterprises.8164.1.31.44

Description: Session Manager Instance ID

Syntax: Integer32

Access: not-accessible

Object: starEGTPVpnName

Object ID: enterprises.8164.1.31.45

Description: The name of this VPN (context)

Syntax: DisplayString

Access: accessible-for-notify

Object: starEGTPServName

Object ID: enterprises.8164.1.31.46

Description: The name of this service

Syntax: DisplayString

Access: accessible-for-notify

Object: starEGTPInterfaceType

Object ID: enterprises.8164.1.31.47

Description: Egtp interface type

Syntax: INTEGER

Access: accessible-for-notify

Object:	**starEGTPSelfPort**
Object ID:	enterprises.8164.1.31.48
Description:	The Port number of the EGTP
Syntax:	Gauge32
Access:	accessible-for-notify

Object:	**starEGTPSelfAddr**
Object ID:	enterprises.8164.1.31.49
Description:	The IP Address of the EGTP
Syntax:	IpAddress
Access:	accessible-for-notify

Object:	**starEGTPPeerPort**
Object ID:	enterprises.8164.1.31.50
Description:	The Port number of the PeerNode
Syntax:	Gauge32
Access:	accessible-for-notify

Object:	**starEGTPPeerAddr**
Object ID:	enterprises.8164.1.31.51
Description:	The IP Address of the PeerNode
Syntax:	IpAddress
Access:	accessible-for-notify

Object:	**starEGTPPeerOldRstCnt**
Object ID:	enterprises.8164.1.31.52
Description:	EGTP peer old restart counter

Syntax: Gauge32

Access: accessible-for-notify

Object: starEGTPPeerNewRstCnt

Object ID: enterprises.8164.1.31.53

Description: EGTP peer new restart counter

Syntax: Gauge32

Access: accessible-for-notify

Object: starEGTPPeerSessCnt

Object ID: enterprises.8164.1.31.54

Description: EGTP peer session count

Syntax: Gauge32

Access: accessible-for-notify

Object: starEGTPFailureReason

Object ID: enterprises.8164.1.31.55

Description: Egtp path failure reason

Syntax: INTEGER

Access: accessible-for-notify

Object: starGSSCDRLossConfigured

Object ID: enterprises.8164.1.31.56

Description: The configured value of threshold CDR Loss at GSS

Syntax: Unsigned32

Access: accessible-for-notify

Object: starGSSCDRLossMeasured

Object ID: enterprises.8164.1.31.57

Description: The Measured value of CDR Loss at GSS

Syntax: Unsigned32

Access: accessible-for-notify

Object: starLicenseKey

Object ID: enterprises.8164.1.31.58

Description: The license key

Syntax: Unsigned32

Access: accessible-for-notifyaccessible-for-notify

Object: starLicenseExpiryDate

Object ID: enterprises.8164.1.31.59

Description: The license expiration date/time

Syntax: DateAndTime

Access: accessible-for-notify

Object: starLicenseDaysRemaining

Object ID: enterprises.8164.1.31.60

Description: The number of days remaining before the license expires

Syntax: Unsigned32

Access: accessible-for-notify

Object: starLicenseDaysafterExpiry

Object ID: enterprises.8164.1.31.61

Description: The number of days after the license has expired

Syntax: Unsigned32

Access: accessible-for-notify

Object: starNPUSlot

Object ID: enterprises.8164.1.31.62

Description: The NPU slot number

Syntax: Integer32

Access: accessible-for-notify

starentMIB(8164).starentMIBObjects(1).starentGGSNService(32)

The objects in this table are not accessible via SNMP. They are intended for use within traps.

Object: starGGSNSerTable

Object ID: enterprises.8164.1.32.1

Description: A table containing GGSN related information

Syntax: SEQUENCE OF StarGGSNSerEntry

Access: Not-accessible

Object: starGGSNSerEntry

Object ID: enterprises.8164.1.32.1.1

Description: The statistics for a specific GGSN service

Syntax: StarGGSNSerEntry

Access: Not-accessible

Sequence: starGGSNSerVpnID
starGGSNSerSvcID
starSessGGSNVpnName
starSessGGSNServName
starSessGGSNPeerPort
starSessGGSNPeerAddr

starSessGGSNImsi
starSessGGSNSubsName
starSessGGSNAPNName

Object: **starGGSNSerVpnID**

Object ID: enterprises.8164.1.32.1.1.1

Description: The internal identification of the VPN (context)

Syntax: Gauge32

Access: Not-accessible

Object: **starGGSNSerSvcID**

Object ID: enterprises.8164.1.32.1.1.2

Description: The internal identification of this service; unique within a specific context

Syntax: Gauge32

Access: Not-accessible

Object: **starSessGGSNVpnName**

Object ID: enterprises.8164.1.32.1.1.3

Description: The name of this VPN (context)

Syntax: DisplayString

Access: Read-only

Object: **starSessGGSNServName**

Object ID: enterprises.8164.1.32.1.1.4

Description: The name of this service

Syntax: DisplayString

Access: Read-only

Object: **starSessGGSNPeerPort**

Object ID: enterprises.8164.1.32.1.1.5

Description: The Peer Port for which PATH Failure has occurred

Syntax: Gauge32

Access: Accessible-for-notify

Object: starSessGGSNPeerAddr

Object ID: enterprises.8164.1.32.1.1.6

Description: The Peer Address for which PATH Failure has occurred

Syntax: IpAddress

Access: Read-only

Object: starSessGGSNImsi

Object ID: enterprises.8164.1.32.1.1.7

Description: The IMSI of the subscriber.

Syntax: OCTET STRING (SIZE (1..8))

Access: Accessible-for-notify

Object: starSessGGSNSubsName

Object ID: enterprises.8164.1.32.1.1.8

Description: The name of the subscriber.

Syntax: OCTET STRING (SIZE (1..128))

Access: Accessible-for-notify

Object: starSessGGSNAPNName

Object ID: enterprises.8164.1.32.1.1.9

Description: The name of the APN.

Syntax: OCTET STRING (SIZE (1..64))

Access: Accessible-for-notify

starentMIB(8164).starentMIBObjects(1).starentL2TP(33)

Object: starL2TPTable

Object ID: enterprises.8164.1.33.1

Description: A table containing L2TP related information

Syntax: SEQUENCE OF starL2TPEntry

Access: Not-accessible

Object: starL2TPEntry

Object ID: enterprises.8164.1.33.1.1

Description: The statistics for a L2TP entry

Syntax: starL2TPEntry

Access: Not-accessible

Sequence: starL2TPLocalTunnelID
starL2TPPeerTunnelID
starL2TPContextName
starL2TPServiceName
starL2TPServiceTypeName
starL2TPLocalAddress
starL2TPPeerAddress

Object: starL2TPLocalTunnelID

Object ID: enterprises.8164.1.33.1.1.1

Description: The internal identification of the L2TP local tunnel ID

Syntax: Unsigned32

Access: Not-accessible

Object:	starL2TPPeerTunnelID
Object ID:	enterprises.8164.1.33.1.1.2
Description:	The internal identification of the L2TP peer tunnel ID
Syntax:	Unsigned32
Access:	Not-accessible

Object:	starL2TPContextName
Object ID:	enterprises.8164.1.33.1.1.3
Description:	The name of the context
Syntax:	DisplayString
Access:	Accessible-for-notify

Object:	starL2TPServiceName
Object ID:	enterprises.8164.1.33.1.1.4
Description:	The name of the service
Syntax:	DisplayString
Access:	Accessible-for-notify

Object:	starL2TPServiceTypeName
Object ID:	enterprises.8164.1.33.1.1.5
Description:	The name of the service type
Syntax:	DisplayString
Access:	Accessible-for-notify

Object:	starL2TPLocalAddress
Object ID:	enterprises.8164.1.33.1.1.6
Description:	The local address of the service

Syntax: IpAddress

Access: Accessible-for-notify

Object: starL2TPPeerAddress

Object ID: enterprises.8164.1.33.1.1.7

Description: The peer address of the service

Syntax: IpAddress

Access: Accessible-for-notify

starentMIB(8164).starentMIBObjects(1).starSessSub1(34)

1. Use a SET pdu to provide the keys to lookup. Set one or more of the fields starSessSub1Context, starSessSub1NAI, starSessSub1MSID, starSessSub1IpAddr.

   The SET pdu returns once the query is complete. This query can takes some time especially on large systems, so do not use small retry timers.
2. Use a GET pdu to retrieve the data.

IMPORTANT: Note that in some cases, multiple subscribers might watch the given search criteria. The starSessSub1LastResult field identifies if zero, one or multiple matches were found. If multiple matches are found, data is returned for one of them.

Object: starSessSub1Context

Object ID: enterprises.8164.1.34.1

Description: The name of the context for this subscriber. If a SET is received, triggers a lookup for a subscriber that matches the specified search criteria and fills in the various objects in this row.

Syntax: DisplayString

Access: Read-write

Object: starSessSub1NAI

Object ID: enterprises.8164.1.34.2

Description:

The NAI for this subscriber If a SET is received, triggers a lookup for a subscriber that matches the specified search criteria and fills in the various objects in this row.

Syntax: OCTET STRING (SIZE (1..128))

Access: Read-write

Object: starSessSub1MSID

Object ID: enterprises.8164.1.34.3

Description: The MSID for this subscriber If a SET is received, triggers a lookup for a subscriber that matches the specified search criteria and fills in the various objects in this row.

Syntax: OCTET STRING (SIZE (1..16))

Access: Read-write

Object: starSessSub1IpAddr

Object ID: enterprises.8164.1.34.4

Description: The remote IP address for this subscriber If a SET is received, triggers a lookup for a subscriber that matches the specified search criteria and fills in the various objects in this row.

Syntax: IpAddress

Access: Read-write

Object: starSessSub1LastResult

Object ID: enterprises.8164.1.34.5

Description: The result of the last search. A value of unknown(0) means that the query wasn't created properly, or that no query has been performed; error(1) indicates an internal error performing the query, this is an abnormal condition that shouldn't normally be seen; nomatch(2) means that the query did not find a matching subscriber; onematch(3) means that the query found exactly one subscriber; multimatch(4) means that more than one subscriber matched; the information for one (random) subscriber was fetched

Syntax: INTEGER

Access: Read-only

Enumeration: unknown(0)

error(1)
nomatch(2)
onematch(3)
multimatch(4)

Object: **starSessSub1ServiceName**

Object ID: enterprises.8164.1.34.6

Description: The service name of the subscriber.

Syntax: OCTET STRING (SIZE (1..63))

Access: Read-only

Object: **starSessSub1HAIpAddr**

Object ID: enterprises.8164.1.34.7

Description: The HA IP address for FA MIP connections

Syntax: IpAddress

Access: Read-only

Object: **starSessSub1PeerIpAddr**

Object ID: enterprises.8164.1.34.8

Description: The remote IP address of the peer. The type of peer depends on the session type.

Syntax: IpAddress

Access: Read-only

Session Type	Peer
PDSN	PCF
GGSN	SGSN
HA Mobile IP/HA IPSEC	FA
LAC	LNS
LNS	LAC

Object:

starSessSub1InPackets

Object ID:	enterprises.8164.1.34.9
Description:	The number of incoming packets for the subscriber
Syntax:	Counter32
Access:	Read-only

Object: starSessSub1InPacketsDropped

Object ID:	enterprises.8164.1.34.10
Description:	The number of incoming packets dropped for the subscriber
Syntax:	Counter32
Access:	Read-only

Object: starSessSub1InBytes

Object ID:	enterprises.8164.1.34.11
Description:	The count of incoming bytes for the subscriber, in kilobytes, rounded down (i.e. 1023 bytes = 0 kilobytes
Syntax:	Counter32
Units:	KB
Access:	Read-only

Object: starSessSub1OutPackets

Object ID:	enterprises.8164.1.34.12
Description:	The number of out going packets for the subscriber
Syntax:	Counter32
Access:	Read-only

Object: starSessSub1OutPacketsDropped

Object ID:	enterprises.8164.1.34.13

Description:	The number of out going packets dropped for the subscriber
Syntax:	Counter32
Access:	Read-only

Object: starSessSub1OutBytes

Object ID:	enterprises.8164.1.34.14
Description:	The count of outgoing bytes for the subscriber, in kilobytes, rounded down (i.e. 1023 bytes = 0 kilobytes
Syntax:	Counter32
Units:	KB
Access:	Read-only

Object: starSessSub1Activity

Object ID:	enterprises.8164.1.34.15
Description:	TBD
Syntax:	Gauge32
Units:	%
Access:	Read-only

Object: starSessSub1State

Object ID:	enterprises.8164.1.34.16
Description:	The state of the subscriber
Syntax:	INTEGER
Access:	Read-only
Enumeration:	Unknown(0) Connecting(1) Connected(2)

Disconnecting(3)

Object: starSessSub1CallID

Object ID: enterprises.8164.1.34.17

Description: The internal call ID of the subscriber

Syntax: Integer32

Access: Read-only

Object: starSessSub1ConnectTime

Object ID: enterprises.8164.1.34.18

Description: The connect time for the subscriber, in UTC. The UNIX epoch (Jan. 1, 1970) is used if no value is available

Syntax: DateAndTime

Access: Read-only

Object: starSessSub1CallDuration

Object ID: enterprises.8164.1.34.19

Description: The duration of the call, in seconds

Syntax: Counter32

Units: Seconds

Access: Read-only

Object: starSessSub1TimeIdle

Object ID: enterprises.8164.1.34.20

Description: The idle time of the call, in seconds

Syntax: Gauge32

Units: Seconds

Access: Read-only

Object: **starSessSub1AccessType**

Object ID: enterprises.8164.1.34.21

Description: The access type for the subscriber.

Syntax: INTEGER

Access: Read-only

Enumeration:
unknown(0)
pdsnsimpleip(1)
pdsnmobileip(2)
hamobileip(3)
ggsnpdptypeipv4(4)
ggsnpdptypeppp(5)
ggsnpdptypeipv6(6)
lnsl2tp(7)
haipsec(8)
ipsg(9)
pdsnsipmip(10)
mipproxyfa(11)
imsa(12)
bcmcs(13)
ggsnmip(14)
ipprobe(15)
ansgw(16)

Object: **starSessSub1AccessTech**

Object ID: enterprises.8164.1.34.22

Description: The access technology for the subscriber.

Syntax: INTEGER

Access: Read-only

Sequence:
unknown(0)
cdma1xrtt(1)

cdmaevdo(2)
cdmaother(3)
wcdmautran(4)
gprsgeran(5)
gprsother(6)
wirelesslan(7)
ipsg(8)
wimax(9)
sip(10)
other(11)
cdmaevdoreva(12)
pdif(13)
phs(14)
ehrpd(15)
eutran(16)
gan(17)
hspa(18)

Object: starSessSub1LinkStatus

Object ID:	enterprises.8164.1.34.23
Description:	The link status for the subscriber.
Syntax:	INTEGER
Enumeration:	Read-only
Sequence:	unknown(0) active(1) dormant(2)

Object: starSessSub1NetworkType

Object ID:	enterprises.8164.1.34.24
Description:	The network type for the subscriber.
Syntax:	INTEGER
Access:	Read-only

Sequence:	unknown(0) ip(1) mobileip(2) l2tp(3) proxymobileip(4) ipinip(5) gre(6) ipv6inipv4(7)

Object: starSessSub1CarrierID

Object ID:	enterprises.8164.1.34.25
Description:	Carrier ID
Syntax:	OCTET STRING (SIZE (0..6))
Access:	Read-only

Object: starSessSub1ESN

Object ID:	enterprises.8164.1.34.26
Description:	Electronic Serial Number
Syntax:	OCTET STRING (SIZE (0..15))
Access:	Read-only

Object: starSessSub1GMTTimezoneOffset

Object ID:	enterprises.8164.1.34.27
Description:	Timezone offset from GMT, in seconds. This is a signed value
Syntax:	Integer32
Units:	Seconds
Access:	Read-only

Object: starSessSub1SessMgr

Object ID:

enterprises.8164.1.34.28

Description: The instance number of the session manager for this subscriber.

Syntax: Unsigned32

Access: Read-only

Object: starSessSub1RemoteIPAddr

Object ID: enterprises.8164.1.34.29

Description: Remote IP Address

Syntax: IpAddress

Access: Read-only

Object: starSessSub1Card

Object ID: enterprises.8164.1.34.30

Description: The card holding the session manager for this session. Use in combination with starSessSub1CPU.

Syntax: Integer32(1..16)

Access: Read-only

Object: starSessSub1CPU

Object ID: enterprises.8164.1.34.31

Description: The CPU holding the session manager for this session. Use in combination with starSessSub1Card

Syntax: Integer32(0..3)

Access: Read-only

Object: starSessSub1TimeIdleLeft

Object ID: enterprises.8164.1.34.32

Description: The remaining idle time of the call, in seconds. A value of 0xffffffff is used if the call does not have an idle timeout

Syntax: Gauge32

Units: Seconds

Access: Read-only

Object: starSessSub1TimeLeft

Object ID: enterprises.8164.1.34.33

Description: The remaining session time of the call, in seconds. A value of 0xffffffff is used if the call does not have a session timeout

Syntax: Gauge32

Units: Seconds

Access: Read-only

Object: starSessSub1TimeLongDurLeft

Object ID: enterprises.8164.1.34.34

Description: The remaining long duration time of the call, in seconds. A value of 0xffffffff is used if the call does not have a long duration timer

Syntax: Gauge32

Units: Seconds

Access: Read-only

Object: starSessSub1LongDurAction

Object ID: enterprises.8164.1.34.35

Description: The action to take when the long duration timer is reached

Syntax: StarLongDurTimeoutAction

Access: Read-only

Object: starSessSub1AlwaysOn

Object ID: enterprises.8164.1.34.36

Syntax: INTEGER

Access: Read-only

Enumeration: unknown(0)
enabled(1)
disabled(2)

Object: starSessSub1IPPoolName

Object ID: enterprises.8164.1.34.37

Syntax: OCTET STRING (SIZE(0..31))

Access: Read-only

Object: starSessSub1VLANID

Object ID: enterprises.8164.1.34.38

Description: 0 is returned if this is not applicable

Syntax: Unsigned32

Access: Read-only

Object: starSessSub1LNSIPAddr

Object ID: enterprises.8164.1.34.39

Description: Only valid if starSessSub1NetworkType is l2tp(3), otherwise 0.0.0.0

Syntax: IpAddress

Access: Read-only

Object: starSessSub1ProxyMIP

Object ID: enterprises.8164.1.34.40

Syntax: INTEGER

Access: Read-only

Enumeration:

unknown(0)

enabled(1)

disabled(2)

Object: starSessSub1GGSNMIP

Object ID: enterprises.8164.1.34.41

Syntax: INTEGER

Access: Read-only

Enumeration: unknown(0)
enabled(1)
disabled(2)

Object: starSessSub1HomeAgentIpAddr

Object ID: enterprises.8164.1.34.42

Description: The IP address of the Home Agent. This value is applicable only if one of the following is true:

- The value of starSessSub1AccessType is pdsnmobileip(2)
- The value of starSessSub1ProxyMIP is enabled(1)
- The value of starSessSub1GGSNMIP is enabled(1)

If not applicable, a value of 0.0.0.0 will be returned

Syntax: IpAddress

Access: Read-only

Object: starSessSub1LocalIPAddr

Object ID: enterprises.8164.1.34.43

Description: The Local IP address of the Home Agent. This value is applicable only if one of the following is true:

- The value of starSessSub1AccessType is pdsnsimpleip(1)
- The value of starSessSub1AccessType is ggsnpdptypeppp(5)
- The value of starSessSub1AccessType is lnsl2tp(7)

If not applicable, a value of 0.0.0.0 will be returned

Syntax: IpAddress

Access: Read-only

Object: starSessSub1FAServiceName

Object ID: enterprises.8164.1.34.44

Description: The FA service name for the subscriber. This value is applicable only if one of the following is true:

- The value of starSessSub1AccessType is pdsnmobileip(2)
- The value of starSessSub1ProxyMIP is enabled(1)
- The value of starSessSub1GGSNMIP is enabled(1)

Syntax: OCTET STRING (SIZE (1..63))

Access: Read-only

Object: starSessSub1FAVPNName

Object ID: enterprises.8164.1.34.45

Description: The FA VPN (Context) name. This value is applicable only if one of the following is true:

- The value of starSessSub1AccessType is pdsnmobileip(2)
- The value of starSessSub1ProxyMIP is enabled(1)
- The value of starSessSub1GGSNMIP is enabled(1)

Syntax: DisplayString

Access: Read-only

Object: starSessSub1SourceVPN

Object ID: enterprises.8164.1.34.46

Description: The Source VPN (Context) name.

Syntax: DisplayString

Access: Read-only

Object: starSessSub1DestVPN

Object ID: enterprises.8164.1.34.47

Description:

The Destination VPN (Context) name.

Syntax: DisplayString

Access: Read-only

Object: starSessSub1AAAVPN

Object ID: enterprises.8164.1.34.48

Syntax: DisplayString

Access: Read-only

Object: starSessSub1AAADomain

Object ID: enterprises.8164.1.34.49

Syntax: DisplayString

Access: Read-only

Object: starSessSub1AAAStart

Object ID: enterprises.8164.1.34.50

Syntax: Counter32

Access: Read-only

Object: starSessSub1AAAStop

Object ID: enterprises.8164.1.34.51

Syntax: Counter32

Access: Read-only

Object: starSessSub1AAAInterim

Object ID: enterprises.8164.1.34.52

Syntax: Counter32

Access: Read-only

Object:

starSessSub1AcctSessionID

Object ID: enterprises.8164.1.34.53

Syntax: OCTET STRING (SIZE(0..23))

Access: Read-only

Object: starSessSub1AAARadiusGroup

Object ID: enterprises.8164.1.34.54

Syntax: OCTET STRING (SIZE(0..63))

Access: Read-only

Object: starSessSub1AAARadiusAuthServerIPAddr

Object ID: enterprises.8164.1.34.55

Syntax: IpAddress

Access: Read-only

Object: starSessSub1AAARadiusAcctServerIPAddr

Object ID: enterprises.8164.1.34.56

Syntax: IpAddress

Access: Read-only

Object: starSessSub1NASIPAddr

Object ID: enterprises.8164.1.34.57

Syntax: IpAddress

Access: Read-only

Object: starSessSub1NexthopIPAddr

Object ID: enterprises.8164.1.34.58

Syntax: IpAddress

Access:

Read-only

Object: **starSessSub1ActiveInACL**

Object ID: enterprises.8164.1.34.59

Syntax: OCTET STRING (SIZE(0..79))

Access: Read-only

Object: **starSessSub1ActiveOutACL**

Object ID: enterprises.8164.1.34.60

Syntax: OCTET STRING (SIZE(0..79))

Access: Read-only

Object: **starSessSub1ECSRulebase**

Object ID: enterprises.8164.1.34.61

Syntax: OCTET STRING (SIZE(0..63))

Access: Read-only

Object: **starSessSub1InPlcyGrp**

Object ID: enterprises.8164.1.34.62

Syntax: OCTET STRING (SIZE(0..15))

Access: Read-only

Object: **starSessSub1OutPlcyGrp**

Object ID: enterprises.8164.1.34.63

Syntax: OCTET STRING (SIZE(0..15))

Access: Read-only

Object: **starSessSub1DownTrafPolState**

Object ID: enterprises.8164.1.34.64

Syntax:

	INTEGER
Access:	Read-only
Enumeration:	unknown(0) enabled(1) disabled(2)

Object: starSessSub1DownCommDataRate

Object ID:	enterprises.8164.1.34.65
Description:	Downlink committed data rate, in bps. This value is only valid if starSessSub1DownTrafPolState is enabled(1)
Syntax:	Unsigned32
Units:	bps
Access:	Read-only

Object: starSessSub1DownPeakDataRate

Object ID:	enterprises.8164.1.34.66
Description:	Downlink peak data rate, in bps. This value will be 0 if the value of starSessSub1DownTrafPolState is anything other than enabled(1)
Syntax:	Unsigned32
Units:	bps
Access:	Read-only

Object: starSessSub1DownBurstSize

Object ID:	enterprises.8164.1.34.67
Description:	Downlink burst size, in bytes. This value will be 0 if the value of starSessSub1DownTrafPolState is anything other than enabled(1)
Syntax:	Unsigned32
Units:	bytes
Access:	

Read-only

Object: **starSessSub1DownExceedAction**

Object ID: enterprises.8164.1.34.68

Description: Downlink Exceed Action. This value will be notapplicable(1) if the value of starSessSub1DownTrafPolState is anything other than enabled(1)

Syntax: StarQOSTPAction

Access: Read-only

Object: **starSessSub1DownViolateAction**

Object ID: enterprises.8164.1.34.69

Description: Downlink Violate Action. This value will be notapplicable(1) if the value of starSessSub1DownTrafPolState is anything other than enabled(1)

Syntax: StarQOSTPAction

Access: Read-only

Object: **starSessSub1DownExceed**

Object ID: enterprises.8164.1.34.70

Description: Downlink packets exceeded bandwidth parameters

Syntax: Counter32

Units: packets

Access: Read-only

Object: **starSessSub1DownViolate**

Object ID: enterprises.8164.1.34.71

Description: Downlink packets violated bandwidth parameters

Syntax: Counter32

Units: packets

Access:

Read-only

Object: starSessSub1UpTrafPolState

Object ID: enterprises.8164.1.34.72

Description: Uplink traffic policing state

Syntax: INTEGER

Access: Read-only

Enumeration: unknown(0)
enabled(1)
disabled(2)

Object: starSessSub1UpCommDataRate

Object ID: enterprises.8164.1.34.73

Description: Uplink committed data rate, in bps. This value is only valid if starSessSub1UpTrafPolState is enabled(1)

Syntax: Unsigned32

Units: bps

Access: Read-only

Object: starSessSub1UpPeakDataRate

Object ID: enterprises.8164.1.34.74

Description: Uplink peak data rate, in bps. This value will be 0 if the value of starSessSub1UpTrafPolState is anything other than enabled(1)

Syntax: Unsigned32

Units: bps

Access: Read-only

Object: starSessSub1UpBurstSize

Object ID: enterprises.8164.1.34.75

Description: Uplink burst size, in bytes. This value will be 0 if the value of starSessSub1UpTrafPolState is anything other than enabled(1

Syntax: Unsigned32

Units: bytes

Access: Read-only

Object: starSessSub1UpExceedAction

Object ID: enterprises.8164.1.34.76

Description: Uplink Exceed Action. This value will be notapplicable(1) if the value of starSessSub1UpTrafPolState is anything other than enabled(1)

Syntax: StarQOSTPAction

Access: Read-only

Object: starSessSub1UpViolateAction

Object ID: enterprises.8164.1.34.77

Description: Uplink Violate Action. This value will be notapplicable(1) if the value of starSessSub1UpTrafPolState is anything other than enabled(1)

Syntax: StarQOSTPAction

Access: Read-only

Object: starSessSub1UpExceed

Object ID: enterprises.8164.1.34.78

Description: Uplink packets exceeded bandwidth parameters

Syntax: Counter32

Units: packets

Access: Read-only

Object: starSessSub1UpViolate

Object ID:

enterprises.8164.1.34.79

Description: Uplink packets violated bandwidth parameters

Syntax: Counter32

Units: packets

Access: Read-only

Object: starSessSub1L3TunnelingState

Object ID: enterprises.8164.1.34.80

Description: Identifies if L3 tunneling is enabled. This value should be enabled(1) if starSessSub1NetworkType is ipinip(5) or gre(6).

Syntax: Integer

Access: Read-only

Object: starSessSub1L3TunLocalIPAddr

Object ID: enterprises.8164.1.34.81

Description: L3 tunnel local address. This value is valid only if starSessSub1L3TunnelState is enabled(1), other it will be 0.0.0.0.

Syntax: IpAddress

Access: Read-only

Object: starSessSub1L3TunRemoteIPAddr

Object ID: enterprises.8164.1.34.82

Description: L3 tunnel remote address. This value is valid only if starSessSub1L3TunnelState is enabled(1), other it will be 0.0.0.0

Syntax: IpAddress

Access: Read-only

Object: starSessSub1AddrViaDHCP

Object ID: enterprises.8164.1.34.83

Syntax: Integer

Access: Read-only

Object: starSessSub1DHCPServName

Object ID: enterprises.8164.1.34.84

Description: DHCP service name. This value is only valid if starSessSub1DHCPAddrViaDHCP is enabled(1)

Syntax: Octet string

Access: Read-only

Object: starSessSub1DHCPServIPAddr

Object ID: enterprises.8164.1.34.85

Description: DHCP service IP address. This value is only valid if starSessSub1DHCPAddrViaDHCP is enabled(1), otherwise it will be 0.0.0.0

Syntax: IpAddress

Access: Read-only

Object: starSessSub1AccessLinkIPFrag

Object ID: enterprises.8164.1.34.86

Syntax: Integer

Access: Read-only

Object: starSessSub1IgnoreDFBit

Object ID: enterprises.8164.1.34.87

Description: Ignore DF-bit data-tunnel

Syntax: Integer

Access: Read-only

Object: starSessSub1MIPGratARPMode

Object ID: enterprises.8164.1.34.88

Description: This field is only applicable if starSessSub1AccessType is hamobileip(3) or haipsec(8)

Syntax: Integer

Access: Read-only

Object: starSessSub1ExtInlSrvrProc

Object ID: enterprises.8164.1.34.89

Description: The state of external inline server processing

Syntax: Integer

Access: Read-only

Object: starSessSub1ExtInlSrvrIngrIPAddr

Object ID: enterprises.8164.1.34.90

Description: The external inline server ingress IP address. This value is only valid if starSessSub1ExtInlSrvrProc is enabled(1)

Syntax: IP Address

Access: Read-only

Object: starSessSub1ExtInlSrvrIngrVLANTag

Object ID: enterprises.8164.1.34.91

Description: The external inline server ingress VLAN tag. This value is only valid if starSessSub1ExtInlSrvrProc is enabled(1)

Syntax: Unsigned32

Access: Read-only

Object: starSessSub1ExtInlSrvrEgrIPAddr

Object ID: enterprises.8164.1.34.92

Description:

The external inline server egress IP address. This value is only valid if starSessSub1ExtInlSrvrProc is enabled(1)

Syntax: IpAddress

Access: Read-only

Object: starSessSub1ExtInlSrvrEgrVLANTag

Object ID: enterprises.8164.1.34.93

Description: The external inline server egress VLAN tag. This value is only valid if starSessSub1ExtInlSrvrProc is enabled(1)

Syntax: Unsigned32

Access: Read-only

Object: starSessSub1ExtInlSrvrVPNName

Object ID: enterprises.8164.1.34.94

Description: The external inline server context (VPN). This value is only valid if starSessSub1ExtInlSrvrProc is enabled(1)

Syntax: DisplayString

Access: Read-only

Object: starSessSub1RadAcctMode

Object ID: enterprises.8164.1.34.95

Description: Radius Accounting Mode

Syntax: Integer

Access: Read-only

Object: starSessSub1InBytesDropped

Object ID: enterprises.8164.1.34.96

Description: The count of incoming bytes dropped for the subscriber, in kilobytes, rounded down (i.e. 1023 bytes = 0 kilobytes)

Syntax:

Counter32

Access: Read-only

Object: starSessSub1OutBytesDropped

Object ID: enterprises.8164.1.34.97

Description: The count of outgoing bytes dropped for the subscriber, in kilobytes, rounded down (i.e. 1023 bytes = 0 kilobytes)

Syntax: Counter32

Access: Read-only

Object: starSessSub1PeakBPSTx

Object ID: enterprises.8164.1.34.98

Description: Peak rate from user, in bytes per second.

Syntax: Gauge32

Access: Read-only

Object: starSessSub1PeakBPSRx

Object ID: enterprises.8164.1.34.99

Description: Peak rate to user, in bytes per second.

Syntax: Gauge32

Access: Read-only

Object: starSessSub1AveBPSTx

Object ID: enterprises.8164.1.34.100

Description: Average rate from user, in bytes per second.

Syntax: Gauge32

Access: Read-only

Object: starSessSub1AveBPSRx

Object ID: enterprises.8164.1.34.101

Description: Average rate to user, in bytes per second.

Syntax: Gauge32

Access: Read-only

Object: starSessSub1SustBPSTx

Object ID: enterprises.8164.1.34.102

Description: Sustained rate from user, in bytes per second.

Syntax: Gauge32

Access: Read-only

Object: starSessSub1SustBPSRx

Object ID: enterprises.8164.1.34.103

Description: Sustained rate to user, in bytes per second.

Syntax: Gauge32

Access: Read-only

Object: starSessSub1PeakPPSTx

Object ID: enterprises.8164.1.34.104

Description: Peak rate from user, in packets per second.

Syntax: Gauge32

Access: Read-only

Object: starSessSub1PeakPPSRx

Object ID: enterprises.8164.1.34.105

Description: Peak rate to user, in packets per second.

Syntax: Gauge32

Access: Read-only

Object: starSessSub1AvePPSTx

Object ID: enterprises.8164.1.34.106

Description: Average rate from user, in packets per second.

Syntax: Gauge32

Access: Read-only

Object: starSessSub1AvePPSRx

Object ID: enterprises.8164.1.34.107

Description: Average rate to user, in packets per second.

Syntax: Gauge32

Access: Read-only

Object: starSessSub1SustPPSTx

Object ID: enterprises.8164.1.34.108

Description: Sustained rate from user, in packets per second.

Syntax: Gauge32

Access: Read-only

Object: starSessSub1SustPPSRx

Object ID: enterprises.8164.1.34.109

Description: Sustained rate to user, in packets per second

Syntax: Gauge32

Access: Read-only

Object: starSessSub1ActivePct

Object ID: enterprises.8164.1.34.110

Description: Link online/active percentage.

Syntax: Integer32(0..100)

Access: Read-only

Object: starSessSub1IPv4BadHdr

Object ID: enterprises.8164.1.34.111

Description: IPv4 Bad Headers

Syntax: Counter32

Access: Read-only

Object: starSessSub1IPv4TtlExceeded

Object ID: enterprises.8164.1.34.112

Description: IPv4 Total Exceeded

Syntax: Counter32

Access: Read-only

Object: starSessSub1IPv4FragSent

Object ID: enterprises.8164.1.34.113

Description: IPv4 Fragments sent

Syntax: Counter32

Access: Read-only

Object: starSessSub1IPv4FragFail

Object ID: enterprises.8164.1.34.114

Description: IPv4 Could Not Fragment errors

Syntax: Counter32

Access: Read-only

Object:	starSessSub1IPv4InACLDrop
Object ID:	enterprises.8164.1.34.115
Description:	IPv4 Input ACL Drops
Syntax:	Counter32
Access:	Read-only

Object:	starSessSub1IPv4OutACLDrop
Object ID:	enterprises.8164.1.34.116
Description:	IPv5 Output ACL Drops
Syntax:	Counter32
Access:	Read-only

Object:	starSessSub1IPv4InCSSDownDrop
Object ID:	enterprises.8164.1.34.117
Description:	IPv4 Input CSS Down Drops
Syntax:	Counter32
Access:	Read-only

Object:	starSessSub1IPv4OutCSSDownDrop
Object ID:	enterprises.8164.1.34.118
Description:	IPv4 Output CSS Down Drops
Syntax:	Counter-32
Access:	Read-only

Object:	starSessSub1IPv4OutXOFFDropPkt
Object ID:	enterprises.8164.1.34.119
Description:	IPv4 Output XOFF Packets Drop

Syntax: Counter32

Access: Read-only

Object: starSessSub1IPv4OutXOFFDropByte

Object ID: enterprises.8164.1.34.120

Description: IPv4 Output XOFF Bytes Drop

Syntax: Counter-32

Access: Read-only

Object: starSessSub1IPv4SrcViol

Object ID: enterprises.8164.1.34.121

Description: IPv4 Source Violations

Syntax: Counter32

Access: Read-only

Object: starSessSub1IPv4ProxyDNSRedir

Object ID: enterprises.8164.1.34.122

Description: IPv4 Proxy-DNS Redirect

Syntax: Counter32

Access: Read-only

Object: starSessSub1IPv4SrcProxyDNSPThru

Object ID: enterprises.8164.1.34.123

Description: IPv4 Proxy-DNS Pass-Thru

Syntax: Counter32

Access: Read-only

Object: starSessSub1IPv4ProxyDNSDrop

Object ID: enterprises.8164.1.34.124

Description: IPv4 Proxy-DNS Drop

Syntax: Counter32

Access: Read-only

Object: starSessSub1IPv4SrcViolNoAcct

Object ID: enterprises.8164.1.34.125

Description: IPv4 Source Violations No Account

Syntax: Counter32

Access: Read-only

Object: starSessSub1IPv4SrcViolIgnored

Object ID: enterprises.8164.1.34.126

Description: IPv4 Source Violations Ignored

Syntax: Counter32

Access: Read-only

Object: starSessSub1ExtInlSrvrTxPkt

Object ID: enterprises.8164.1.34.127

Description: Packets transmitted to inline server. This value is valid only if the value of starSessSub1ExtInlSrvrProc is enabled(1)

Syntax: Counter32

Access: Read-only

Object: starSessSub1ExtInlSrvrRxPkt

Object ID: enterprises.8164.1.34.128

Description: Packets received from inline server. This value is valid only if the value of starSessSub1ExtInlSrvrProc is enabled(1)

Syntax: Counter32

Access: Read-only

Object: starSessSub1IPv4ICMPDropPkt

Object ID: enterprises.8164.1.34.129

Description: IPv4 ICMP Packets dropped

Syntax: Counter32

Access: Read-only

Object: starSessSub1TunnelType

Object ID: enterprises.8164.1.34.130

Description: Tunnel Type

Syntax: Integer

Access: Read-only

Object: starSessSub1IPSECTunDownDropPkt

Object ID: enterprises.8164.1.34.131

Description: Pool IPSEC tunnel down packets dropped. This value is only valid if the value of starSessSub1TunnelType is esp(6)

Syntax: Counter32

Access: Read-only

Object: starSessSub1IPSECFlowID

Object ID: enterprises.8164.1.34.132

Description: IP Pool IPSEC flow id. This value is only valid if the value of starSessSub1TunnelType is esp(6)

Syntax: Integer32

Access: Read-only

Object:	starSessSub1DormancyTotal
Object ID:	enterprises.8164.1.34.133
Description:	Dormancy total. This value is not valid if the value of starSessSub1AccessType is ggsnpdptypeipv4(4) or ggsnpdptypeppp(5)
Syntax:	Counter32
Access:	Read-only

Object:	starSessSub1HandoffTotal
Object ID:	enterprises.8164.1.34.134
Description:	Handoff total. This value is not valid if the value of starSessSub1AccessType is ggsnpdptypeipv4(4) or ggsnpdptypeppp(5)
Syntax:	Counter32
Access:	Read-only

Object:	starSessSub1AccessFlows
Object ID:	enterprises.8164.1.34.135
Description:	Access flows
Syntax:	Gauge32
Access:	Read-only

Object:	starSessSub1TFT
Object ID:	enterprises.8164.1.34.136
Description:	Number of TFTs
Syntax:	Gauge32
Access:	Read-only

Object:	starSessSub1NASPort
Object ID:	enterprises.8164.1.34.137

Description: NAS port

Syntax: Integer32

Access: Read-only

Object: starSessSub1CorrID

Object ID: enterprises.8164.1.34.139

Description: ThreeGPP2-correlation-id (C2)

Syntax: Octet String

Access: Read-only

Object: starSessSub1L2TPPeerIPAddr

Object ID: enterprises.8164.1.34.140

Description: L2TP Peer address. This value is only valid if the value of starSessSub1NetworkType is l2tp(3)

Syntax: IpAddress

Access: Read-only

Object: starSessSub1IPv4EarlyPDURecv

Object ID: enterprises.8164.1.34.141

Description: IPv4 early PDU received

Syntax: Counter32

Access: Read-only

starentMIB(8164).starentMIBObjects(1).starentNwReachServer(35)

The objects in this table are not accessible via SNMP. They are intended for use within traps.

Object: starNwReachTable

Object ID:

enterprises.8164.1.35.1

Description: A table containing Network Reachable Server information

Syntax: SEQUENCE OF StarNwReachEntry

Access: Not-accessible

Object: starNwReachEntry

Object ID: enterprises.8164.1.35.1.1

Description: Information for a specific Ntw Reachable Server

Syntax: StarNwReachEntry

Access: Not-accessible

Sequence: starNwReachName
starNwReachSrvrAddr

Object: starNwReachName

Object ID: enterprises.8164.1.35.1.1.1

Description: The Name for this Network Reachable Server

Syntax: OCTET STRING (SIZE (1..16))

Access: Not-accessible

Object: starNwReachSrvrAddr

Object ID: enterprises.8164.1.35.1.1.2

Description: The IP Address for the Network Reachable Server

Syntax: IpAddress

Access: Not-accessible

starentMIB(8164).starentMIBObjects(1).starentIPSEC(36)

The objects in this table are not accessible via SNMP. They are intended for use within traps.

Object:	**starIPSECContextName**
Object ID:	enterprises.8164.1.36.1
Description:	The name of a context
Syntax:	DisplayString
Access:	Accessible-for-notify

Object:	**starIPSECGroupName**
Object ID:	enterprises.8164.1.36.2
Description:	The name of a crypto map
Syntax:	DisplayString
Access:	Accessible-for-notify

Object:	**starIPSECTunLocalIPAddr**
Object ID:	enterprises.8164.1.36.3
Description:	The local IP Address for an IPSEC tunnel
Syntax:	DisplayString
Access:	Accessible-for-notify

Object:	**starIPSECTunRemoteIPAddr**
Object ID:	enterprises.8164.1.36.4
Description:	The local IP Address for an IPSEC tunnel
Syntax:	DisplayString
Access:	Accessible-for-notify

Object:	**starIPSECPolicyName**
Object ID:	

enterprises.8164.1.36.5

Description: An IPSEC policy name

Syntax: DisplayString

Access: Accessible-for-notify

Object: starIPSECDynPolicyType

Object ID: enterprises.8164.1.36.6

Description: An IPSEC dynamic policy type. Note that the value test(5) is used only for internal testing

Syntax: Integer

Access: Accessible-for-notify

Enumeration: unknown(0)
manual(1)
isakmp(2)
subscribertemplate(3)
subscribertunnel(4)
test(5)
dynamic(6)

Object: starIPSECDynPolicyPayloadType

Object ID: enterprises.8164.1.36.7

Description: An IPSEC dynamic policy payload type

Syntax: Integer

Access: Accessible-for-notify

Object: starIPSECLocalGateway

Object ID: enterprises.8164.1.36.8

Description: IP address of IPSec local gateway

Syntax: IpAddress

Access: Accessible-for-notify

Object: starIPSECRemoteGateway

Object ID: enterprises.8164.1.36.9

Description: IP address of IPSec remote gateway

Syntax: IpAddress

Access: Accessible-for-notify

starentMIB(8164).starentMIBObjects(1).starentSIPRoute(37)

Object: starSIPRouteTable

Object ID: enterprises.8164.1.37.1

Description: A table containing SIPRoute related information

Syntax: SEQUENCE OF StarSIPRouteEntry

Access: Not-accessible

Object: starSIPRouteEntry

Object ID: enterprises.8164.1.37.1.1

Description: The statistics for a specific SIPRoute service

Syntax: StarSIPRouteEntry

Access: Not-accessible

Sequence:
starSIPRouteVpnID Index
starSIPRouteVpnName Index
starSIPRouteVmgName
starSIPRouteAsName
starSIPRouteDestPartyNum
starSIPRouteReqNum

Object:

starSIPRouteVpnID

Object ID: enterprises.8164.1.37.1.1.1

Description: The internal identification of the VPN (context)

Syntax: Gauge32

Access: Not-accessible

Object: starSIPRouteVpnName

Object ID: enterprises.8164.1.37.1.1.2

Description: The name of this VPN (context)

Syntax: DisplayString

Access: Read-only

Object: starSIPRouteVmgName

Object ID: enterprises.8164.1.37.1.1.3

Description: The name of this VMG (context)

Syntax: DisplayString

Access: Read-only

Object: starSIPRouteAsName

Object ID: enterprises.8164.1.37.1.1.4

Description: The name of this AS (context)

Syntax: DisplayString

Access: Read-only

Object: starSIPRouteDestPartyNum

Object ID: enterprises.8164.1.37.1.1.5

Description: The dest. party number

Syntax:

DisplayString

Access: Read-only

Object: starSIPRouteReqNum

Object ID: enterprises.8164.1.37.1.1.6

Description: The request number

Syntax: DisplayString

Access: Read-only

starentMIB(8164).starentMIBObjects(1).starentRPServiceOption(38)

Object: starRPServiceOptionTable

Object ID: enterprises.8164.1.38.1

Syntax: SEQUENCE OF StarRPServiceOptionEntry

Access: Not-accessible

Object: starRPServiceOptionEntry

Object ID: enterprises.8164.1.38.1.1

Syntax: StarRPServiceOptionEntry

Access: Not-accessible

Sequence: starRPServiceOptionNum
starRPServiceOptionCalls

Object: starRPServiceOptionNum

Object ID: enterprises.8164.1.38.1.1.1

Syntax: Integer32(1..255)

Access: Not-accessible

Object:

starRPServiceOptionCalls

Object ID: enterprises.8164.1.38.1.1.2

Syntax: Gauge32

Access: Read-only

starentMIB(8164).starentMIBObjects(1).starentPCFStats(39)

Object: starPCFStatTable

Object ID: enterprises.8164.1.39.1

Description: A table containing per-PCF statistics.

Syntax: SEQUENCE OF StarPCFStatEntry

Access: Not-accessible

Object: starPCFStatEntry

Object ID: enterprises.8164.1.39.1.1

Description: The statistics for a specific PCF.

Syntax: StarPCFStatsEntry

Access: Not-accessible

Sequence:

starPCFStatVpnID	Index
starPCFStatIpAddr	
starPCFStatVpnName	
starPCFStatRxPkts	
starPCFStatTxPkts	
starPCFStatRxBytes	
starPCFStatTxBytes	
starPCFStatTotalSessions	
starPCFStatCurrentSessions	
starPCFStatCurrentActiveSessions	
starPCFStatCurrentDormantSessions	

starPCFStatCurrentSIPConnected
starPCFStatCurrentMIPConnected
starPCFStatCurrentPMIPConnected
starPCFStatCurrentL2TPLACConnected
starPCFStatCurrentOtherConnected

Object:	**starPCFStatVpnID**
Object ID:	enterprises.8164.1.39.1.1.1
Description:	The internal identification of the VPN (context).
Syntax:	Guage32
Access:	Not-accessible

Object:	**starPCFStatIpAddr**
Object ID:	enterprises.8164.1.39.1.1.2
Description:	The IP address of the specific PCF.
Syntax:	IpAddress
Object ID:	Not-accessible

Object:	**starPCFStatVpnName**
Object ID:	enterprises.8164.1.39.1.1.3
Description:	The name of the VPN (context).
Syntax:	DisplayString
Object ID:	Read-only

Object:	**starPCFStatRxPkts**
Object ID:	enterprises.8164.1.39.1.1.4
Description:	Total packets received.
Syntax:	Counter32
Units:	Millions

Access:	Read-only

Object: starPCFStatTxPkts

Object ID:	enterprises.8164.1.39.1.1.5
Description:	total packets transferred.
Syntax:	Counter32
Units:	Millions
Object ID:	Read-only

Object: starPCFStatRxBytes

Object ID:	enterprises.8164.1.39.1.1.6
Description:	Total bytes received.
Syntax:	Counter32
Units:	Megabytes
Object ID:	Read-only

Object: starPCFStatTxBytes

Object ID:	enterprises.8164.1.39.1.1.7
Description:	Total bytes send.
Syntax:	Counter32
Units:	Megabytes
Object ID:	Read-only

Object: starPCFStatTotalSessions

Object ID:	enterprises.8164.1.39.1.1.8
Description:	Total number of sessions.
Syntax:	Counter32

Object ID: Read-only

Object: starPCFStatCurrentSessions

Object ID: enterprises.8164.1.39.1.1.9

Description: Total current sessions.

Syntax: Gauge32

Access: Read-only

Object: starPCFStatCurrentActiveSessions

Object ID: enterprises.8164.1.39.1.1.10

Description: Total number of current active sessions.

Syntax: Gauge32

Object ID: Read-only

Object: starPCFStatCurrentDormantSessions

Object ID: enterprises.8164.1.39.1.1.11

Description: Total Numbers of current dormant sessions.

Syntax: Gauge32

Object ID: Read-only

Object: starPCFStatCurrentSIPConnected

Object ID: enterprises.8164.1.39.1.1.12

Description: Total number of Simple IP sessions connected.

Syntax: Gauge32

Object ID: Read-only

Object: starPCFStatCurrentMIPConnected

Object ID: enterprises.8164.1.39.1.1.13

Description: Total number of Mobile IP sessions connected.

Syntax: Gauge32

Object ID: Read-only

Object: starPCFStatCurrentPMIPConnected

Object ID: enterprises.8164.1.39.1.1.14

Description: Total number of Proxy Mobile IP sessions connected.

Syntax: Gauge32

Object ID: Read-only

Object: starPCFStatCurrentL2TPLACConnected

Object ID: enterprises.8164.1.39.1.1.15

Description: Total number of current L2TP LAC connected.

Syntax: Gauge32

Object ID: Read-only

Object: starPCFStatCurrentOtherConnected

Object ID: enterprises.8164.1.39.1.1.16

Description: Total number of other connections.

Syntax: Gauge32

Object ID: Read-only

starentMIB(8164).starentMIBObjects(1).starentSIPRouteServer(40)

Object: starSIPRouteServerTable

Object ID: enterprises.8164.1.40.1

Description:

A table containing SIPRouteServer related information

Syntax: SEQUENCE OF StarSIPRouteServerEntry

Access: Not-accessible

Object: starSIPRouteServerEntry

Object ID: enterprises.8164.1.40.1.1

Description: The statistics for a specific SIPRouteServer.

Syntax: StarSIPRouteServerEntry

Access: Not-accessible

Sequence:

starSIPRouteServerVpnID	Index
starSIPRouteServerVpnName	
starSIPRouteServerVmgName	
starSIPRouteServerAsName	
starSIPRouteServerIpAddr	

Object: starSIPRouteServerVpnID

Object ID: enterprises.8164.1.40.1.1.1

Description: The internal identification of the VPN (context).

Syntax: Gauge32

Access: Not-accessible

Object: starSIPRouteServerVpnName

Object ID: enterprises.8164.1.40.1.1.2

Description: The name of the VPN (context).

Syntax: DisplayString

Access: Read-only

Object: starSIPRouteServerVmgName

Object ID: enterprises.8164.1.40.1.1.3

Description: The name of the VMG (context).

Syntax: DisplayString

Access: Read-only

Object: starSIPRouteServerAsName

Object ID: enterprises.8164.1.40.1.1.4

Description: The name of the AS (context).

Syntax: DisplayString

Access: Read-only

Object: starSIPRouteServerIpAddr

Object ID: enterprises.8164.1.40.1.1.5

Description: The SIP Route Server IP address.

Syntax: IP Address in dotted decimal notation

Access: Read-only

starentMIB(8164).starentMIBObjects(1).starentVIMService(41)

Object: starVIMServiceTable

Object ID: enterprises.8164.1.41.1

Description: A table containing VIM's Service related information

Syntax: SEQUENCE OF StarVIMServiceEntry

Access: Not-accessible

Object: starVIMServiceEntry

Object ID: enterprises.8164.1.41.1.1

Description:

The statistics for a specific VIM's Service

Syntax: StarVIMServiceEntry

Access: Not-accessible

Sequence: starVIMServiceVpnID
starVIMServiceVpnName
starVIMServiceInstanceId
starVIMServiceFMDMaxCallRate
starVIMServiceFMDContinuousLoadCount

Object: starVIMServiceVpnID

Object ID: enterprises.8164.1.41.1.1.1

Description: The internal identification of the VPN (context)

Syntax: Gauge32

Access: Not-accessible

Object: starVIMServiceVpnName

Object ID: enterprises.8164.1.41.1.1.2

Description: The name of this VPN (context)

Syntax: DisplayString

Access: Read-only

Object: starVIMServiceInstanceId

Object ID: enterprises.8164.1.41.1.1.3

Description: The VIM Instance ID

Syntax: Unsigned32

Access: Not-accessible

Object: starVIMServiceFMDMaxCallRate

Object ID: enterprises.8164.1.41.1.1.4

Description: Configured FMD max call rate

Syntax: Unsigned32

Units: Calls per Minute

Access: Read-only

Object: starVIMServiceFMDContinuousLoadCount

Object ID: enterprises.8164.1.41.1.1.5

Description: Configured FMD continuous load count

Syntax: Unsigned32

Access: Read-only

starentMIB(8164).starentMIBObjects(1).starentGSS(42)

The GTPP Storage Server is an external entity, but the chassis reports notifications on its behalf. The objects in this table are not accessible via SNMP. They are intended for use within traps.

Object: starGSSClusterName

Object ID: enterprises.8164.1.42.1

Description: The name of the Storage Server Cluster

Syntax: DisplayString

Access: Accessible-for-notify

Object: starGSSClusterNodeName

Object ID: enterprises.8164.1.42.2

Description: The name of a node within a Storage Server Cluster

Syntax: DisplayString

Access: Accessible-for-notify

Object:

starGSSClusterRgName

Object ID: enterprises.8164.1.42.3

Description: The name of the Storage Server Cluster Resource Group

Syntax: DisplayString

Access: Accessible-for-notify

Object: starGSSClusterRsName

Object ID: enterprises.8164.1.42.4

Description: The name of the Storage Server Cluster Resource

Syntax: DisplayString

Access: Accessible-for-notify

Object: starGSSClusterNodeState

Object ID: enterprises.8164.1.42.5

Description: Status of the Storage Server Cluster node

Syntax: DisplayString

Access: Accessible-for-notify

Object: starGSSClusterPrevOnlineNode

Object ID: enterprises.8164.1.42.6

Description: Name of the previous node of the Storage Server Cluster which was online/active

Syntax: DisplayString

Access: Accessible-for-notify

Object: starGSSClusterFromNode

Object ID: enterprises.8164.1.42.7

Description: Information from Storage Server Cluster to node

Syntax:

DisplayString

Access: Accessible-for-notify

Object: starGSSClusterToNode

Object ID: enterprises.8164.1.42.8

Description: Information from node to Storage Server Cluster

Syntax: DisplayString

Access: Accessible-for-notify

Object: starGSSDiskPath

Object ID: enterprises.8164.1.42.9

Description: Path information of Storage Server disk

Syntax: DisplayString

Access: Accessible-for-notify

Object: starGSSTransportPath

Object ID: enterprises.8164.1.42.10

Description: Path information of Storage Server for data transportation

Syntax: DisplayString

Access: Accessible-for-notify

Object: starGSSIPMPGroup

Object ID: enterprises.8164.1.42.11

Description: Name of the IPMP group for GSS

Syntax: DisplayString

Access: Accessible-for-notify

Object: starGSSInterfaceName

Object ID:

enterprises.8164.1.42.12

Description: Name of the GSS interface

Syntax: DisplayString

Access: Accessible-for-notify

starentMIB(8164).starentMIBObjects(1).starentPDIFSys(43)

Object: starPDIFSysStatus

Object ID: enterprises.8164.1.43.1

Description: The overall status of the chassis as a PDIF service. A value of noservice(1) means that the chassis is not configured/licensed for PDIF; active(2) indicates that at least one PDIF service is available for processing sessions; temporary(3) indicates that PDIF is running in a temporary capacity, such as running in standby mode during an online upgrade; outofservice(4) indicates that no PDIF service is currently active, but one or more PDIF services are configured

Syntax: INTEGER
unknown(0)
noservice(1)
active(2)
temporary(3)
outofservice(4)

Access: Read-only

Object: starPDIFSysNumService

Object ID: enterprises.8164.1.43.2

Description: The number of PDIF services configured

Syntax: Unsigned32

Units: Services

Access: Read-only

Object:

starPDIFSysSessCurrent

Object ID: enterprises.8164.1.43.3

Description: The number of current PDIF sessions for this chassis

Syntax: Gauge32

Access: Read-only

Object: starPDIFSysSessCurrActive

Object ID: enterprises.8164.1.43.4

Description: The number of currently active PDIF sessions for this chassis

Syntax: Gauge32

Access: Read-only

Object: starPDIFSysSessCurrDormant

Object ID: enterprises.8164.1.43.5

Description: The number of currently dormant PDIF sessions for this chassis

Syntax: Gauge32

Access: Read-only

Object: starPDIFSysSessTtlSetup

Object ID: enterprises.8164.1.43.6

Description: The cumulative total number of PDIF sessions that has been setup

Syntax: Counter32

Access: Read-only

Object: starPDIFSysChildSACurrent

Object ID: enterprises.8164.1.43.7

Description: Number of current PDIF child SAs for the chassis

Syntax:

Gauge32

Access: Read-only

starentMIB(8164).starentMIBObjects(1).starentPDIFService(44)

Object: starPDIFTable

Object ID: enterprises.8164.1.44.1

Description: A table of per-service PDIF information

Syntax: SEQUENCE OF StarPDIFEntry

Access: Not-accessible

Object: starPDIFEntry

Object ID: enterprises.8164.1.44.1.1

Description: The information for a PDIF service

Syntax: StarPDIFEntry

Access: Not-accessible

Sequence:

starPDIFSvcID
StarShortID
starPDIFVpnID Gauge32
starPDIFVpnName DisplayString
starPDIFServName DisplayString
starPDIFStatus INTEGER
starPDIFSessCurrent Gauge32
starPDIFSessRemain Gauge32
starPDIFSessCurrentActive Gauge32
starPDIFSessCurrentDormant Gauge32
starPDIFSessCurrentIpv6Active Gauge32
starPDIFSessCurrentIpv6Dormant Gauge32
starPDIFSessCurrentIpv4Active Gauge32
starPDIFSessCurrentIpv4Dormant Gauge32

starPDIFBindIpAddress	IpAddress
starPDIFBindIpPort	Integer32
starPDIFBindSlot	Integer32
starPDIFBindPort	Integer32

Object: starPDIFSvcID

Object ID: enterprises.8164.1.44.1.1.1

Description: The service identification is made up from first 8 chars of context name and first 8 chars of service name separated by (:).

Syntax: StarShortID

Access: Not-accessible

Object: starPDIFVpnID

Object ID: enterprises.8164.1.44.1.1.2

Description: The internal VPN (context) ID.

Syntax: Gauge32

Access: Read-only

Object: starPDIFVpnName

Object ID: enterprises.8164.1.44.1.1.3

Description: The VPN (context) name.

Syntax: DisplayString

Access: Read-only

Object: starPDIFServName

Object ID: enterprises.8164.1.44.11.1.4

Description: The name of this service

Syntax: DisplayString

Access: Read-only

Object: **starPDIFStatus**

Object ID: enterprises.8164.1.44.1.1.5

Description: The state of this PDIF service. The value unknown(0) indicates that the system is unable to determine the status; inservice(1) indicates that the service is available for processing sessions; outofservice(2) indicates that the service is configured, but unavailable, either due to operator action or due to a fault.

Syntax: INTEGER
unknown(0)
inservice(1)
outofservice(2)

Access: Read-only

Object: **starPDIFSessCurrent**

Object ID: enterprises.8164.1.44.1.1.6

Description: The number of current sessions for this PDIF service.

Syntax: Gauge32

Access: Read-only

Object: **starPDIFSessRemain**

Object ID: enterprises.8164.1.44.1.1.7

Description: A count of the remaining capacity for this PDIF service, in terms of sessions. If a session limit is configured for this PDIF service, starPDIFSessRemain will identify the difference between this limit and starPDIFSessCurrent. If no individual limit has been configured for this service, starPDIFSessRemain will identify the remaining capacity for the entire chassis. Note that in this latter case, the value for starPDIFSessRemain cannot be summed across multiple services.

Syntax: Gauge32

Access: Read-only

Object: **starPDIFSessCurrentActive**

Object ID: enterprises.8164.1.44.1.1.8

Description:

The number of currently active sessions for this PDIF service

Syntax: Gauge32

Access: Read-only

Object: starPDIFSessCurrentDormant

Object ID: enterprises.8164.1.44.1.1.9

Description: The number of currently dormant sessions for this PDIF service

Syntax: Gauge32

Access: Read-only

Object: starPDIFSessCurrentIpv6Active

Object ID: enterprises.8164.1.44.1.1.10

Description: The number of currently active IPv6 sessions for this PDIF service

Syntax: Gauge32

Access: Read-only

Object: starPDIFSessCurrentIpv6Dormant

Object ID: enterprises.8164.1.44.1.1.11

Description: The number of currently dormant IPv6 sessions for this PDIF service.

Syntax: Gauge32

Access: Read-only

Object: starPDIFSessCurrentIpv4Active

Object ID: enterprises.8164.1.44.1.1.12

Description: The number of currently active IPv4 sessions for this PDIF service.

Syntax: Gauge32

Access: Read-only

Object: **starPDIFSessCurrentIpv4Dormant**

Object ID: enterprises.8164.1.44.1.1.13

Description: The number of currently dormant IPv4 sessions for this PDIF service.

Syntax: Gauge32

Access: Read-only

Object: **starPDIFBindIpAddress**

Object ID: enterprises.8164.1.44.1.1.14

Description: The bind IP address for this PDIF service

Syntax: IpAddress

Access: Read-only

Object: **starPDIFBindIpPort**

Object ID: enterprises.8164.1.44.1.1.15

Description: The bind IP port for this PDIF service

Syntax: Integer32

Access: Read-only

Object: **starPDIFBindSlot**

Object ID: enterprises.8164.1.44.1.1.16

Description: The physical slot number for the physical port which holds the interface bound to the starPDIFBindIpAddress address.

Syntax: Integer32

Access: Read-only

Object: **starPDIFBindPort**

Object ID: enterprises.8164.1.44.1.1.17

Description:

The physical port number for the physical port which holds the interface bound to the starPDIFBindIpAddress address.

Syntax: SYNTAX Integer32

Access: Read-only

starentMIB(8164).starentMIBObjects(1).starentSGSNService(45)

Object: starSGSNSerTable

Object ID: enterprises.8164.1.45.1

Description: A table containing SGSN related information.

Syntax: SEQUENCE OF StarSGSNSerEntry

Access: Not-accessible

Object: starSGSNSerEntry

Object ID: enterprises.8164.1.45.1.1

Description: The statistics for a specific SGSN service.

Syntax: StarSGSNSerEntry

Access: Not-accessible

Sequence: starSGSNSerVpnID Gauge32
starSGSNSerSvcID Gauge32
starSessSGSNVpnName DisplayString
starSessSGSNServName DisplayString
starLinkM3UASs7rdId Gauge32
starSS7Pc Gauge32
starLinkM3UAPsId Gauge32

Object: starSGSNSerVpnID

Object ID: enterprises.8164.1.45.1.1.1

Description: The internal identification of the VPN (context).

Syntax: Gauge32

Access: not-accessible

Object: starSGSNSerSvcID

Object ID: enterprises.8164.1.45.1.1.2

Description: The internal identification of this service; unique within a specific context.

Syntax: Gauge32

Access: not-accessible

Object: starSessSGSNVpnName

Object ID: enterprises.8164.1.45.1.1.3

Description: The name of this VPN (context).

Syntax: DisplayString

Access: read-only

Object: starSessSGSNServName

Object ID: enterprises.8164.1.45.1.1.4

Description: The name of this service.

Syntax: DisplayString

Access: read-only

Object: starSessSGSNMcc

Object ID: enterprises.8164.1.45.1.1.5

Description: Mobile country code

Syntax: Octet String (size1..3))

Access: Read-only

Object: starSessSGSNMnc

Object ID: enterprises.8164.1.45.1.1.6

Description: Mobile network code

Syntax: Octet String (size1..3))

Access: Read-only

Object: starSessSGSNRncid

Object ID: enterprises.8164.1.45.1.1.7

Description: The RNC id

Syntax: Gauge32

Access: Read-only

Object: starSessSGSNHlrNum

Object ID: enterprises.8164.1.45.1.1.8

Description: The HLR id

Syntax: Octet String (Size(1..16))

Access: Read-

starentMIB(8164).starentMIBObjects(1).starentSS7Rd(46)

Object: starSS7RdTable

Object ID: enterprises.8164.1.46.1

Description: Table containing SS7Rd-related information

Syntax: Sequence of StarSS7RdEntry

Access: Not-Accessible

Object: starSS7RdEntry

Object ID:

enterprises.8164.1.46.1.1

Description: The statistics for a specific ss7rd

Syntax: StarSS7RdEntry

Access: Not-Accessible

Sequence: starSS7rdId Index
starSS7Pc
starSS7M3UAPsId
starSS7M3UAPspId
starSS7MTP3LinkSetId
starSS7MTP3LinkId
starSS7SCTPSelfAddr
starSS7SCTPPeerAddr
starSS7SCTPSelfPort
starSS7SCTPPeerPort

Object: starSS7rdid

Object ID: enterprises.8164.1.46.1.1.1

Description: SS7 Routing Domain identification.

Syntax: Gauge32

Access: Not accessible

Object: starSS7Pc

Object ID: enterprises.8164.1.46.1.1.2

Description: Point Code.

Syntax: Gauge32

Access: not-accessible

Object: starSS7M3UAPsId

Object ID: enterprises.8164.1.46.1.1.3

Description:

Peer Server identification.

Syntax: Gauge32

Access: Read-only

Object: starSS7M3UAPspid

Object ID: enterprises.8164.1.46.1.1.4

Description: Peer Server Process Identification

Syntax: Gauge32

Access: Read-only

Object: starSS7MTP3LinkSetId

Object ID: enterprises.8164.1.46.1.1.5

Description: MTP3 LinkSet Identifier

Syntax: Gauge32

Access: Read-only

Object: starSS7MTP3LinkId

Object ID: enterprises.8164.1.46.1.1.6

Description: MTP3 Link Identifier

Syntax: Gauge32

Access: Read-only

Object: starSS7SCTPSelfAddr

Object ID: enterprises.8164.1.46.1.1.7

Description: Self-End-Point IP Address

Syntax: IpAddress

Access: Read-only

Object:	starSS7SCTPPeerAddr
Object ID:	enterprises.8164.1.46.1.1.8
Description:	Peer Node IP Address
Syntax:	IpAddress
Access:	Read-Only

Object:	starSS7SCTPSelfPort
Object ID:	enterprises.8164.1.46.1.1.9
Description:	Self end-point sctp port
Syntax:	Gauge32
Access:	Read-Only

Object:	starSS7SCTPPeerPort
Object ID:	enterprises.8164.1.46.1.1.10
Description:	Peer end-point SCTP Port
Syntax:	Gauge32
Access:	Read-Only

starentMIB(8164).starentMIBObjects(1).starentSccpNw(47)

Object:	starSccpNwTable
Object ID:	enterprises.8164.1.47.1
Description:	Table containing Sccp Network-related information
Syntax:	Sequence of StarSccpNwEntry
Access:	Not-accessible

Object:

starSccpNwEntry

Object ID:	enterprises.8164.1.47.1.1
Description:	Statistics for a specific Sccp Network
Syntax:	StarSccpNwEntry
Access:	Not-accessible
Sequence:	starSccpNwId Gauge32 starSccpSsn Gauge32

Object: starSccpNwId

Object ID:	enterprises.8164.1.47.1.1.1
Description:	SCCP Network ID
Syntax:	Gauge32
Access:	Not accessible

Object: starSccpSsn

Object ID:	enterprises.8164.1.47.1.1.2
Description:	Sub-system number
Syntax:	Gauge32
Access:	Read-only

starentMIB(8164).starentMIBObjects(1).starentSGTPService(48)

Object: starSGTPSerTable

Object ID:	enterprises.8164.1.48.1
Description:	Table containing SGTP Service-related info
Syntax:	Sequence of StarSGTPSerEntry
Access:	

Not-accessible

Object: **starSGTPSerEntry**

Object ID: enterprises.8164.1.48.1.1

Description: Statistics for a specific SGTP Service

Syntax: StarSGTPSerEntry

Access: Not-accessible

Sequence:

starSGTPSerVpnID	Gauge32
starSGTPSerSvcID	Gauge32
starSGTPVpnName	Display String
starSGTPServName	Display String
starSGTPSelfAddr	IpAddress
starSGTPPeerAddr	IpAddress
starSGTPSelfPort	Gauge32
starSGTPPeerPort	Gauge32

Object: **starSGTPSerVpnID**

Object ID: enterprises.8164.1.48.1.1.1

Description: Internal ID of the VPN (Context)

Syntax: Gauge32

Access: Not accessible

Object: **starSGTPSerSvcID**

Object ID: enterprises.8164.1.48.1.1.2

Description: Internal service ID unique within this context

Syntax: Gauge32

Access: Not-accessible

Object: **starSGTPVpnName**

Object ID: enterprises.8164.1.48.1.1.3

Description: Name of this VPN (Context)

Syntax: DisplayString

Access: Read-only

Object: starSGTPServName

Object ID: enterprises.8164.1.48.1.1.4

Description: Name of this service

Syntax: DisplayString

Access: Read-only

Object: starSGTPSelfAddr

Object ID: enterprises.8164.1.48.1.1.5

Description: SGSN IP Address

Syntax: IP Address

Access: Read-only

Object: starSGTPPeerAddr

Object ID: enterprises.8164.1.48.1.1.6

Description: IP Address for the PeerNode

Syntax: IPAddress

Access: Read-only

Object: starSGTPSelfPort

Object ID: enterprises.8164.1.48.1.1.7

Description: The self end point SGTP port

Syntax: Gauge32

Access: Read-only

Object:	starSGTPPeerPort
Object ID:	enterprises.8164.1.48.1.1.8
Description:	The peer end point SGTP port
Syntax:	Gauge32
Access:	Read-only

starentMIB(8164).starentMIBObjects(1).starentIPMSServer(49)

Object:	starIPMSServerTable
Object ID:	enterprises.8164.1.49.1
Description:	Table containing information on IPMS servers
Syntax:	Sequence of StarIPMSServerEntry
Access:	Not-accessible
Sequence:	starIPMSServerVpnIDGauge32 starIPMSServerAddrIpAddress starIPMSServerVpnNameDisplayString

Object:	starIPMSServerVpnID
Object ID:	enterprises.8164.1.49.1.1.1
Description:	The internal identification of the VPN (context)
Syntax:	Gauge32
Access:	Not-accessible

Object:	starIPMSServerAddr
Object ID:	enterprises.8164.1.49.1.1.2
Description:	The IP address of the IPMS server within this VPN (context)
Syntax:	

IpAddress

Access: Not-accessible

Object: starIPMSServerVpnName

Object ID: enterprises.8164.1.49.1.1.3

Description: The name of this VPN (context)

Syntax: DisplayString

Access: read-only

starentMIB(8164).starentMIBObjects(1).starentCert(50)

Object: starCertTable

Object ID: enterprises.8164.1.50.1

Description: Table containing information on X.509 certificates

Syntax: Sequence of StarCertEntry

Access: Not-accessible

Object: starCertEntry

Object ID: enterprises.8164.1.50.1.1

Description: Information on a particular X.509 Certificate

Syntax: StarCertEntry

Access: Not-accessible

Sequence:

starCertSerialNumber	Display-String
starCertExpiryTime	DateAndTime
starCertIssuer	Display-String

Object: starCertSerialNumber

Object ID: enterprises.8164.1.50.1.1.1

Description: Certificate serial number

Syntax: DisplayString

Access: Not-accessible

Object: starCertExpiryTime

Object ID: enterprises.8164.1.50.1.1.2

Description: Certificate expiration date and time

Syntax: DateAndTime

Access: Read-only

Object: starCertIssuer

Object ID: enterprises.8164.1.50.1.1.3

Description: The certificate issuing agency

Syntax: DisplayString

Access: Read-0nly

starentMIB(8164).starentMIBObjects(1).starentFile(51)

The objects in this table are not accessible via SNMP. They are intended for use within traps.

Object: starFileTable

Object ID: enterprises.8164.1.51.1

Description: A table of files stored on a mass storage device

Syntax: SEQUENCE OF StarFileEntry

Access: Not-accessible

Object: starFileEntry

Object ID: enterprises.8164.1.51.1.1

Description: Information about a particular file on a mass storage device

Syntax: StarFileEntry

Access: Not-accessible

Sequence: starFileName DisplayString,
starFileApplication INTEGER

Object: starFileName

Object ID: enterprises.8164.1.51.1.1.1

Description: The name (full path) of the file

Syntax: DisplayString

Access: Not-accessible

Object: starFileApplication

Object ID: enterprises.8164.1.51.1.1.2

Description: The application that owns this file

Syntax: Integer

Access: Read-only

Enumeration: unknown(0)
systemfile(1)
cdrmod(2)

starentMIB(8164).starentMIBObjects(1).starentFTPServ(52)

The objects in this table are not accessible via SNMP. They are intended for use within traps.

Object: starFTPServTable

Object ID: enterprises.8164.1.52.1

Description: A table of FTP servers configured

Syntax: SEQUENCE OF StarFTPServEntry

Access: Not-accessible

Object: starFTPServEntry

Object ID: enterprises.8164.1.52.1.1

Description: Information about a particular FTP Server

Syntax: StarFTPServEntry

Access: Not-accessible

Sequence: starFTPServVpnID Unsigned32,
starFTPServIpAddr IpAddress,
starFTPServVpnName DisplayString

Object: starFTPServVpnID

Object ID: enterprises.8164.1.52.1.1.1

Description: The internal identification of the VPN (context) used to reach this FTP server

Syntax: Unsigned32

Access: Not-accessible

Object: starFTPServIpAddr

Object ID: enterprises.8164.1.52.1.1.2

Description: The IP address of the FTP server

Syntax: IpAddress

Access: Not-accessible

Object: starFTPServVpnName

Object ID: enterprises.8164.1.52.1.1.3

Description: The name of the VPN (context)

Syntax:

DisplayString

Access: Not-accessible

starentMIB(8164).starentMIBObjects(1).starentCSCFPeerServer(53)

Object: starCSCFPeerServerTable

Object ID: enterprises.8164.1.53.1

Description: A table containing PeerServer related information

Syntax: SEQUENCE OF StarCSCFPeerServerEntry

Access: Not Accessible

Object: starCSCFPeerServerEntry

Object ID: enterprises.8164.1.53.1.1

Description: The statistics for a specific CSCF service

Syntax: StarCSCFPeerServerEntry

Access: Not Accessible

Sequence: starCSCFPeerServerVpnID Gauge32,
starCSCFPeerServerSvcID Gauge32,
starCSCFPeerServerVpnName DisplayString,
starCSCFPeerServerSvcName DisplayString,
starCSCFPeerServerListName DisplayString

Object: starCSCFPeerServerVpnID

Object ID: enterprises.8164.1.53.1.1.1

Description: The internal identification of the VPN (context)

Syntax: Gauge32

Access: Not Accessible

Object:

starCSCFPeerServerSvcID

Object ID: enterprises.8164.1.53.1.1.2

Description: The internal identification of this CSCF service; unique

Syntax: Gauge32

Access: Not Accessible

Object: **starCSCFPeerServerVpnName**

Object ID: enterprises.8164.1.53.1.1.3

Description: The name of this VPN (context)

Syntax: DisplayString

Access: Read-Only

Object: **starCSCFPeerServerSvcName**

Object ID: enterprises.8164.1.53.1.1.4

Description: The name of this CSCF-service

Syntax: DisplayString

Access: Read-Only

Object: **starCSCFPeerServerListName**

Object ID: enterprises.8164.1.53.1.1.5

Description: The name of the cscf-peer-server

Syntax: DisplayString

Object: **starThreshGPRSSessions**

Object ID: enterprises.8164.1.53.1.1.6

Description: The total number of GPRS sessions is above the configured threshold value.

Objects: **starThreshInt, starThreshMeasuredInt**

Object:

starThreshClearGPRSSessions

Object ID: enterprises.8164.1.53.1.1.7

Description: The threshold condition is now clear.

Objects: **starThreshInt, starThreshMeasuredInt**

Object: **starThreshPerServiceGPRSSessions**

Object ID: enterprises.8164.1.53.1.1.8

Description: The total number of GPRS sessions in a service is above the configured threshold value.

Objects: **starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt**

Object: **starThreshClearPerServiceGPRSSessions**

Object ID: enterprises.8164.1.53.1.1.9

Description: The threshold condition is now clear.

Objects: **starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt**

Object: **starThreshGPRSPdpSessions**

Object ID: enterprises.8164.1.53.1.1.10

Description: The total number of GPRS PDP sessions is above the configured threshold value.

Objects: **starThreshInt, starThreshMeasuredInt**

Object: **starThreshClearGPRSPdpSessions**

Object ID: enterprises.8164.1.53.1.1.11

Description: The threshold condition is now clear.

Objects: **starThreshInt, starThreshMeasuredInt**

Object: **starThreshPerServiceGPRSPdpSessions**

Object ID: enterprises.8164.1.53.1.1.12

Description: The total number of GPRS PDP sessions in a service is above the configured threshold value.

Objects:	**starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt**

Object:	**starThreshClearPerServiceGPRSPdpSessions**
Object ID:	enterprises.8164.1.53.1.1.13
Description:	The threshold condition is now clear.

Objects:	**starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt**

starentMIB(8164).starentMIBObjects(1).starentSDH(54)

Object:	**starSDHTable**
Object ID:	enterprises.8164.1.54.1
Description:	Table containing SDH information
Syntax:	SEQUENCE OF StarSDHEntry
Access:	Not Accessible

Object:	**starSDHEntry**
Object ID:	enterprises.8164.1.54.1.1
Description:	Statistical data
Syntax:	StarSDHEntry
Access:	Not Accessible
Sequence:	starSDHSlot Index starSDHPort Index starSDHOperState

Object:	**starSDHSlot**
Object ID:	enterprises.8164.1.54.1.1.1
Description:	The slot number for this port
Syntax:	

Integer32(17..48)

Access: Not Accessible

Object: starSDHPort

Object ID: enterprises.8164.1.54.1.1.2

Description: The port number within this slot

Syntax: Integer32(1..8)

Access: Not Accessible

Object: starSDHOperState

Object ID: enterprises.8164.1.54.1.1.3

Description: A bitmask indicating the state of SDH layer SCT.
0x0000 Good
0x0001 lais
0x0002 linesd
0x0004 linesf
0x0010 lof
0x0020 los
0x0040 msrdi

Syntax: Integer32

Access: Read-Only

starentMIB(8164).starentMIBObjects(1).starentSDHPath(55)

Object: starSDHPathTable

Object ID: enterprises.8164.1.55.1

Description: Table for SDH Path data

Syntax: SEQUENCE OF starSDHPathEntry

Access:

Not Accessible

Object: **starSDHPathEntry**

Object ID: enterprises.8164.1.55.1.1

Description: Table statistical data

Syntax: starSDHPathEntry

Access: Not Accessible

Sequence: starSDHPathSlot Integer32
starSDHPathPort Integer32
starSDHPathNum Integer32
starSDHPathOperState Integer32

Object: **starSDHPathSlot**

Object ID: enterprises.8164.1.55.1.1.1

Description: Slot number for this port

Syntax: Integer32(17..48)

Access: Not Accessible

Object: **starSDHPathPort**

Object ID: enterprises.8164.1.55.1.1.2

Description: Port number within this slot

Syntax: Integer32(1..8)

Access: Not Accessible

Object: **starSDHPathNum**

Object ID: enterprises.8164.1.55.1.1.3

Description: Path number

Syntax: Integer32(1..3)

Access:

Not Accessible

Object: starSDHPathOperState

Object ID: enterprises.8164.1.55.1.1.4

Description: A bitmask indicating the state of SDH Path HOP
0x0000 Good
0x0001 hopathsd
0x0002 hopathsf
0x0020ppdi
0x0040 prdi
0x0080 perdi
0x0100 perdival
0x0200 perdivaloff

Syntax: Integer32

Access: Read-Only

starentMIB(8164).starentMIBObjects(1).starentE1Trib(56)

Object: starE1TribTable

Object ID: enterprises.8164.1.56.1

Description: Table for E1Trib data

Syntax: SEQUENCE OF StarE1TribEntry

Access: Not Accessible

Object: starE1TribEntry

Object ID: enterprises.8164.1.56.1.1

Description: Statistical data for table

Syntax: StarE1TribEntry

Access: Not Accessible

Sequence:

starE1TribSlot	Index
starE1TribPort	Index
starE1TribPath	Index
starE1TribTug2	Integer32
starE1TribTu12	Integer32
starE1TribOperStateLOP	Integer32
starE1TribOperState	Integer32

Object: starE1TribSlot

Object ID: enterprises.8164.1.56.1.1.1

Description: The slot number for this port

Syntax: Integer32(17..48)

Access: Not Accessible

Object: starE1TribPort

Object ID: enterprises.8164.1.56.1.1.2

Description: The port number within this slot

Syntax: Integer32(1..8)

Access: Not Accessible

Object: starE1TribPath

Object ID: enterprises.8164.1.56.1.1.3

Description: Not shown

Syntax: Integer32(1..3)

Access: Not Accessible

Object: starE1TribTug2

Object ID: enterprises.8164.1.56.1.1.4

Description: Not shown

Syntax: Integer32(1..7)

Access: Not Accessible

Object: starE1TribTu12

Object ID: enterprises.8164.1.56.1.1.5

Description: Not shown

Syntax: Integer32(1..3)

Access: Not Accessible

Object: starE1TribOperStateLOP

Object ID: enterprises.8164.1.56.1.1.6

Description: A bitmask indicating the stare of SDH layer LOP
0x0000 Good
0x0001 lopathsd
0x0002 lopathsf
0x0100 erdi
0x0200 rdi
0x0400 lop
0x0800 ais
0x1000 lom

Syntax: Integer32

Access: Read Only

Object: starE1TribOperState

Object ID: enterprises.8164.1.56.1.1.7

Description: A bitmask indicating the state of the E1 Tributary
0x0000 Good
0x0001 inf0x0002 insmf
0x0004 incmf
0x0008 ooof
0x0010 raiccrc

0x0020 cfebe
0x0040 rai
0x0080 rmai
0x0100 aisd
0x0200 red
0x0400 ais
0x0800 ts16aisd

Syntax: Integer32

Access: Read Only

starentMIB(8164).starentMIBObjects(1).starentGPRSLink(57)

Object: starGPRSLinkTable

Object ID: enterprises.8164.1.57.1

Description: A table containing GPRS Service Link related information.

Syntax: SEQUENCE of StarGPRSLinkEntry

Access: Not Accessible

Object: starGPRSLinkEntry

Object ID: enterprises.8164.1.57.1.1

Description: The link statistics for a specific GPRS service.

Syntax: StarGPRSLinkEntry

Sequence: starGPRSNsei Gauge32,
starGPRSNsvci Gauge32,
starGPRSBvci Gauge32,

Object: starGPRSNsei

Object ID: enterprises.8164.1.57.1.1.1

Description: Network Service Entity Identifier

Syntax: Gauge32

Access: Read-Only

Object: starGPRSNsvci

Object ID: enterprises.8164.1.57.1.1.2

Description: Network Service Virtual Circuit Identifier

Syntax: Gauge32

Access: Read-Only

Object: starGPRSBvci

Object ID: enterprises.8164.1.57.1.1.3

Description: Base Station System GPRS (General Packet Radio Service) Protocol Virtual Circuit Identifier.

Syntax: Gauge32

Access: Read-Only

starentMIB(8164).starentMIBObjects(1).starentFractE1Trib(58)

Object: starFractE1TribTable

Object ID: enterprises.8164.1.58.1

Description: A table ...

Syntax: SEQUENCE of StarFractTribEntry

Access: Not Accessible

Object: starFractE1TribEntry

Object ID: enterprises.8164.1.58.1.1

Description: Information about a specific Entry

Syntax: starFractE1TribEntry

Sequence:
starFractE1TribSlot Integer32,
starFractE1TribPort I Integer32,
starFractE1TribPath Integer32,
starFractE1TribTug2 Integer32,
starFractE1TribTu12 Integer32
starFractE1TribBundNum Integer32,
starFractE1TribTimeslots DisplayString

Object: starFractE1TribSlot

Object ID: enterprises.8164.1.58.1.1.1

Description: Slot number for this port

Syntax: Integer32(17..48)

Access: Not Accessible

Object: starFractE1TribPort

Object ID: enterprises.8164.1.58.1.1.2

Description: Port number within slot

Syntax: Integer32(1..8)

Access: Not Accessible

Object: starFractE1TribPath

Object ID: enterprises.8164.1.58.1.1.3

Description: Not shown

Syntax: Integer32(1..3)

Object: starFractE1TribTug2

Object ID: enterprises.8164.1.58.1.1.4

Description: Not shown

Syntax: Integer32(1..84)

Access: Not Accessible

Object: starFractE1TribTu12

Object ID: enterprises.8164.1.58.1.1.5

Syntax: Integer32(1..3)

Access: not-accessible

Object: starFractE1TribBundNum

Object ID: enterprises.8164.1.58.1.1.6

Description: Not Given

Syntax: Integer32(0..31)

Access: Not Accessible

Object: starFractE1TribTimeslots

Object ID: enterprises.8164.1.58.1.1.7

Description: Not Given

Syntax: Display/String

Access: Read-Only

starentMIB(8164).starentMIBObjects(1).starentStorage(59)

The objects in this table are not accessible via SNMP. They are intended for use within traps.

Object: starStorageTable

Object ID: enterprises.8164.1.59.1

Description: A table of mass storage devices

Syntax: SEQUENCE OF StarStorageEntry

Access: Not Accessible

Object: starStorageEntry

Object ID: enterprises.8164.1.59.1.1

Description: Information about a particular file on a mass storage device

Syntax: StarStorageEntry

Access: Not Accessible

Sequence: starStorageSlot Integer32,
starStorageName DisplayString,
starStorageDeviceType INTEGER

Object: starStorageSlot

Object ID: enterprises.8164.1.59.1.1.1

Description: The slot number of the card holding this storage device

Syntax: Integer32(1..16)

Access: Not Accessible

Object: starStorageName

Object ID: enterprises.8164.1.59.1.1.2

Description: The name of the storage device

Syntax: DisplayString

Access: Not Accessible

Object: starStorageDeviceType

Object ID: enterprises.8164.1.59.1.1.3

Description: The storage device type. A value of independent(1) means that the device can be accessed as a standalone device, and is not part of a raid array. A value of raid(2) means that this device is a raid array. A value of raidmember(3) means the device is part of a raid array, and thus cannot be read/written to outside of the raid array

Syntax:

	INTEGER
Access:	Not Accessible
Enumeration:	unknown(0), independent(1), raid(2), raidmember(3)

starentMIB(8164).starentMIBObject(1).FNGSys (60)

Object: starFNGSysStatus

Object ID:	8164.1.60.1
Description:	The overall status of the chassis as a FNG service. A value of noservice(1) means that the chassis is not configured/licensed for FNG; active(2) indicates that at least one NG service is available for processing sessions; temporary(3) indicates that FNG is running in a temporary capacity, such as running in standby mode during an online upgrade; outofservice(4) indicates that no FNG service is currently active, but one or more FNG services are configured.
Syntax:	unknown(0) noservice(1) active(2) temporary(3) outofservice(4)
Access:	read-only

Object: starFNGSysNumService

Object ID:	8164.1.60.2
Description:	The number of FNG services configured
Syntax:	Gauge32
Access:	read-only

Object: starFNGSysSessCurrent

Object ID:

8164.1.60.3

Description: The number of current FNG sessions for this chassis

Syntax: Gauge32

Access: read-only

Object: starFNGSysSessCurrActive

Object ID: 8164.1.60.4

Description: The number of currently active FNG sessions for this chassis

Syntax: current

Access: read-only

Object: starFNGSysSessCurrDormant

Object ID: 8164.1.60.5

Description: The number of currently dormant FNG sessions for this chassis

Syntax: Gauge32

Access: read-only

Object: starFNGSysSessTtlSetup

Object ID: 8164.1.60.6

Description: he cumulative total number of FNG sessions that has been setup

Syntax: Counter32

Access: read-only

Object: starFNGSysChildSACurrent

Object ID: 8164.1.60.7

Description: The number of current FNG child SAs for this chassis

Syntax: Gauge32

Access: read-only

starentMIB(8164).starentMIBObjects(1).starentFNGService(61)

Object: starFNGTable

Object ID: 8164.1.61.1

Description: A table of per-service FNG information

Syntax: SEQUENCE OF StarFNGEntry

Access: not-accessible

Object: starFNGEntry

Object ID: 8164.1.61.1.1

Description: The information for a FNG service

Syntax: StarFNGEntry

Access: not-accessible

Object: starFNGSvcID

Object ID: 8164.1.61.1.1.1

Description: The service identification is made up from first 8 chars of context name and first 8 chars of service name separated by (:)

Syntax: StarShortID

Access: not-accessible

Object: starFNGVpnID

Object ID: 8164.1.61.1.1.2

Description: The internal identification of the VPN (context). Note that this identifier can change due to configuration changes and/or the restart of the FNG device; in general starFNGVpnName should be used to identify the VPN (context)

Syntax:

Gauge32

Access: read-only

Object: starFNGVpnName

Object ID: 8164.1.61.1.1.3

Description: he VPN (context) name

Syntax: DisplayString

Access: read-only

Object: starFNGServName

Object ID: 8164.1.61.1.1.4

Description: he name of this service

Syntax: DisplayString

Access: read-only

Object: starFNGStatus

Object ID: 8164.1.61.1.1.5

Description: The state of this FNG service. The value unknown(0) indicates that the system is unable to determine the status; inservice(1) indicates that the service is available for processing sessions; outofservice(2) indicates that the service is configured, but unavailable, either due to operator action or due to a fault.

Syntax: unknown(0)
inservice(1)
outofservice(2)

Access: read-only

Object: starFNGSessCurrent

Object ID: 8164.1.61.1.1.6

Description: The number of current sessions for this FNG service.

Syntax:

Gauge32

Access: read-only

Object: starFNGSessRemain

Object ID: 8164.1.61.1.1.7

Description: A count of the remaining capacity for this FNG service, in terms of sessions. If a session limit is configured for this FNG service, starFNGSessRemain will identify the difference between this limit and starFNGSessCurrent. If no individual limit has been configured for this service, starFNGSessRemain will identify the remaining capacity for the entire chassis. Note that in this latter case, the value for starFNGSessRemain cannot be summed across multiple services.

Syntax: Gauge32

Access: read-only

Object: starFNGSessCurrentActive

Object ID: 8164.1.61.1.1.8

Description: The number of currently active sessions for this FNG service

Syntax: Gauge32

Access: read-only

Object: starFNGSessCurrentDormant

Object ID: 8164.1.61.1.1.9

Description: The number of currently dormant sessions for this FNG service.

Syntax: Gauge32

Access: read-only

Object: starFNGSessCurrentIpv6Active

Object ID: 8164.1.61.1.1.10

Description: The number of currently active IPv6 sessions for this FNG service. Note that this value will always be 0, as the current system does not support IPv6 sessions.

Syntax:

Gauge32

Access: read-only

Object: starFNGSessCurrentIpv6Dormant

Object ID: 8164.1.61.1.1.11

Description: The number of currently dormant IPv6 sessions for this FNG service. Note that this value will always be 0, as the current system does not support IPv6 sessions.

Syntax: Gauge32

Access: read-only

Object: starFNGSessCurrentIpv4Active

Object ID: 8164.1.61.1.1.12

Description: The number of currently active IPv4 sessions for this FNG service. Note that all FNG sessions are currently identified as 'active', and the value for starFNGSessCurrentIPv4Dormant will always be zero.

Syntax: Gauge32

Access: read-only

Object: starFNGSessCurrentIpv4Dormant

Object ID: 8164.1.61.1.1.13

Description: The number of currently dormant IPv4 sessions for this FNG service. Note that all FNG sessions are currently identified as 'active', so the value for starFNGSessCurrentIPv4Dormant will always be zero.

Syntax: Gauge32

Access: read-only

Object: starFNGBindIpAddress

Object ID: 8164.1.61.1.1.14

Description: The bind IP address for this FNG service.

Syntax: IpAddress

Access: read-only

Object: starFNGBindIpPort

Object ID: 8164.1.61.1.1.15

Description: The bind IP port for this FNG service.

Syntax: Integer32

Access: read-only

Object: starFNGBindSlot

Object ID: 8164.1.61.1.1.16

Description: he physical slot number for the physical port which holds the interface bound to the starFNGBindIpAddress address.

Syntax: Integer32

Access: read-only

Object: starFNGBindPort

Object ID: 8164.1.61.1.1.17

Description: The physical port number for the physical port which holds the interface bound to the starFNGBindIpAddress address.

Syntax: Integer32

Access: read-only

starentMIB(8164).starentMIBObjects(1).starentPDGSys(62)

Object: starPDGSysStatus

Object ID: 8164.1.62.1

Description: The overall status of the chassis as a PDG service. A value of noservice(1) means that the chassis is not configured/licensed for PDG; active(2) indicates that at least one PDG service is available for processing sessions; temporary(3) indicates that PDG is

running in a temporary capacity, such as running in standby mode during an online upgrade; outofservice(4) indicates that no PDG service is currently active, but one or more PDG services are configured.

Syntax: unknown(0)
noservice(1)
active(2)
temporary(3)
outofservice(4)

Access: read-only

Object: starPDGSysNumService

Object ID: 8164.1.62.2

Description: The number of PDG services configured

Syntax: Unsigned32

Access: read-only

Units: Services

Object: starPDGSysSessCurrent

Object ID: 8164.1.62.3

Description: The number of current PDG sessions for this chassis

Syntax: Gauge32

Access: read-only

Object: starPDGSysSessCurrActive

Object ID: 8164.1.62.4

Description: he number of currently active PDG sessions for this chassis.

Syntax: Gauge32

Access: read-only

Object: starPDGSysSessCurrDormant

Object ID: 8164.1.62.5

Description: The number of currently dormant PDG sessions for this chassis

Syntax: Gauge32

Access: read-only

Object: starPDGSysSessTtlSetup

Object ID: 8164.1.62.6

Description: The cumulative total number of PDG sessions that has been setup

Syntax: Counter32

Access: read-only

Object: starPDGSysChildSACurrent

Object ID: 8164.1.62.7

Description: The number of current PDG child SAs for this chassis

Syntax: Gauge32

Access: read-only

starentMIB(8164).starentMIBObjects(1).starentPDGSys(63)

Object: starPDGTable

Object ID: 8164.1.63.1

Description: A table of per-service PDG information

Syntax: SEQUENCE OF StarPDGEntry

Access: not-accessible

Object: starPDGEntry

Object ID:

8164.1.63.1.1

Description: The information for a PDG service

Syntax: StarPDGEntry

Access: not-accessible

Sequence:
starPDGSvcID
starPDGVpnID
starPDGVpnName
starPDGServName
starPDGStatus
starPDGSessCurrent
starPDGSessRemain
starPDGSessCurrentActive
starPDGSessCurrentDormant
starPDGSessCurrentIpv6Active
starPDGSessCurrentIpv6Dormant
starPDGSessCurrentIpv4Active
starPDGSessCurrentIpv4Dormant
starPDGBindIpAddress
starPDGBindIpPort

Object: starPDGSvcID

Object ID: 8164.1.63.1.1.1

Description: The service identification is made up from first 8 chars of context name and first 8 chars of service name separated by (:)

Syntax: StarShortID

Access: not-accessible

Object: starPDGVpnID

Object ID: 8164.1.63.1.1.2

Description: The internal identification of the VPN (context). Note that this identifier can change due to configuration changes and/or the restart of the PDG device; in general starPDGVpnName should be used to identify the VPN (context)

Syntax: Gauge32

Access: read-only

Object: starPDGVpnName

Object ID: 8164.1.63.1.1.3

Description: The VPN (context) name

Syntax: DisplayString

Access: read-only

Object: starPDGServName

Object ID: 8164.1.63.1.1.4

Description: The name of this service

Syntax: DisplayString

Access: read-only

Object: starPDGStatus

Object ID: 8164.1.63.1.1.5

Description: The state of this PDG service. The value unknown(0) indicates that the system is unable to determine the status; inservice(1) indicates that the service is available for processing sessions; outofservice(2) indicates that the service is configured, but unavailable, either due to operator action or due to a fault.

Syntax: unknown(0)
inservice(1)
outofservice(2)

Access: read-only

Object: starPDGSessCurrent

Object ID: 8164.1.63.1.1.6

Description: The number of current sessions for this PDG service.

Syntax:

Gauge32

Access: read-only

Object: starPDGSessRemain

Object ID: 8164.1.63.1.1.7

Description: A count of the remaining capacity for this PDG service, in terms of sessions. If a session limit is configured for this PDG service, starPDGSessRemain will identify the difference between this limit and starPDGSessCurrent. If no individual limit has been configured for this service, starPDGSessRemain will identify the remaining capacity for the entire chassis. Note that in this latter case, the value for starPDGSessRemain cannot be summed across multiple services.

Syntax: Gauge32

Access: read-only

Object: starPDGSessCurrentActive

Object ID: 8164.1.63.1.1.8

Description: The number of currently active sessions for this PDG service

Syntax: Gauge32

Access: read-only

Object: starPDGSessCurrentDormant

Object ID: 8164.1.63.1.1.9

Description: The number of currently dormant sessions for this PDG service

Syntax: Gauge32

Access: read-only

Object: starPDGSessCurrentIpv6Active

Object ID: 8164.1.63.1.1.10

Description: The number of currently active IPv6 sessions for this PDG service. Note that this value will always be 0, as the current system does not support IPv6 sessions.

Syntax:

Gauge32

Access: read-only

Object: starPDGSessCurrentIpv6Dormant

Object ID: 8164.1.63.1.1.11

Description: The number of currently dormant IPv6 sessions for this PDG service. Note that this value will always be 0, as the current system does not support IPv6 sessions.

Syntax: Gauge32

Access: read-only

Object: starPDGSessCurrentIpv4Active

Object ID: 8164.1.63.1.1.12

Description: The number of currently active IPv4 sessions for this PDG service. Note that all PDG sessions are currently identified as 'active', and the value for tarPDGSessCurrentIPv4Dormant will always be zero.

Syntax: Gauge32

Access: read-only

Object: starPDGSessCurrentIpv4Dormant

Object ID: 8164.1.63.1.1.13

Description: The number of currently dormant IPv4 sessions for this PDG service. Note that all PDG sessions are currently identified as 'active', so the value for starPDGSessCurrentIPv4Dormant will always be zero.

Syntax: Gauge32

Access: read-only

Object: starPDGBindIpAddress

Object ID: 8164.1.63.1.1.14

Description: The bind IP address for this PDG service

Syntax: IpAddress

Access: read-only

Object: starPDGBindIpPort

Object ID: 8164.1.63.1.1.15

Description: The bind IP port for this PDG service

Syntax: Integer32

Access: read-only

Object: starPDGBindSlot

Object ID: 8164.1.63.1.1.16

Description: The bind IP port for this PDG service

Syntax: Integer32

Access: read-only

Object: starPDGBindPort

Object ID: 8164.1.63.1.1.17

Description: The physical port number for the physical port which holds the interface bound to the starPDGBindIpAddress address.

Syntax: Integer32

Access: read-only

Chapter 2
Starent Chassis Traps

Object:	**starCardTempOverheat**
Object ID:	enterprises.8164.2.1
Description:	The card has reached a temperature beyond its safe operating range. Probable Cause: External temperature is too high; One or more fan failures; blockages the prevent fan air inflow/outflow. **Action to be Taken:** Inspect chassis for any item that may be blocking chassis air flow. Verify adjacent equipment is not obstructing air flow. Verify that the fans are running via the CLI/Web Element Manager. Check air filters. Check chassis maintenance schedule to see if chassis needs routine air filter replacement. Verify room temperature is within acceptable operating conditions. Clear Condition: This condition is cleared when the card reaches its operating temperature range or is removed from the system. **Condition Clear Alarm:** This condition is cleared by a starCardTempOK notification.
Objects:	**starSlotNum** **starCardTemperature**
Object:	**starCardTempOK**
Object ID:	enterprises.8164.2.2
Description:	The temperature of the card is now within its safe operating range. This notification is only generated if the card has previously generated a starCardTempOverheat notification.**Action to be Taken:** No action required. The cause for the card overheat condition should be investigated.
Objects:	**starSlotNum** **starCardTemperature**
Object:	**starCardReset**
Object ID:	enterprises.8164.2.3
Description:	A reset operation has been invoked on the card. ***IMPORTANT:*** This trap is obsolete.
Objects:	**starSlotNum**

starCardType

Object: **starCardRebootRequest**

Object ID: enterprises.8164.2.4

Description: A Reboot operation has been invoked on this card by an administrator. If successful, a subsequent CardDown trap is typically generated. Action to be Taken: No action required. If the reboot was not scheduled the admin logs can be examined to determine who invoked the reboot operation.

Objects: **starSlotNum**
starCardType

Object: **starCardUp**

Object ID: enterprises.8164.2.5

Description: The card is up (operational).

Objects: **starSlotNum**
starCardType

Object: **starCardVoltageFailure**

Object ID: enterprises.8164.2.6

Description: A voltage regulation failure has been detected this card. **Probable Cause:** Problem with incoming power; failure of power filters; hardware issue with card. Note that this is an extremely abnormal condition. **Action to be Taken:** Verify that the power supplied to the chassis is operating correctly; use the CLI/Web Element Manager to check the state of the chassis power filters; replace the card. **Clear Condition:** This is not a recoverable error except via restarting the card, so the condition is only cleared via a starCardUp or starCardActive notification.

Objects: **starSlotNum**
starCardType

Object: **starCardRemoved**

Object ID: enterprises.8164.2.7

Description: A card has been removed from the chassis. **Probable Cause:** An operator has physically unlocked and removed a card from the chassis **Action to be Taken:** No action is required. If the card removal was unplanned, the admin logs can identify the time when the card was initially unlocked.

Objects: **starSlotNum**
starCardType

Object:	**starCardInserted**
Object ID:	enterprises.8164.2.8
Description:	A card has been inserted into the chassis.
Objects:	**starSlotNum** **starCardType**
Object:	**starCardBootFailed**
Object ID:	enterprises.8164.2.9
Description:	A card has failed to startup properly. The card is not operational. Probable Cause: The system logs should contain additional information about the cause of the boot failure.
Objects:	**starSlotNum** **starCardType**
Object:	**starCardFailed**
Object ID:	enterprises.8164.2.10
Description:	The card has failed and is no longer operational. This trap is obsolete and has been replaced with more specific traps to identify specific failures.
Objects:	**starSlotNum** **starCardType**
Object:	**starCardSWFailed**
Object ID:	enterprises.8164.2.11
Description:	An unrecoverable software error has occurred on the card. This trap is obsolete and has been replaced with more specific traps to identify specific failures.
Objects:	**starSlotNum**

IMPORTANT: This trap is obsolete.

Object:	**starCardRCCFailed**
Object ID:	enterprises.8164.2.12
Description:	The RCC has failed.**Probable Cause:** A hardware failure on the RCC card.


IMPORTANT: This trap is obsolete.

Objects: **starSlotNum**

Object: **starCardMismatch**

Object ID: enterprises.8164.2.13

Description: The card does not match its configuration, or the card does not match the slot it was inserted into, or the card is of an unsupported type. Probable Cause: A card was inserted into a slot which was configured for a different type of card. For example, a Gigabit Ethernet card was inserted into a slot configured for a Fast Ethernet card. **Clear Condition:** A starCardUp or starCardActive notification would indicate that this condition has been cleared.

Objects: **starSlotNum**
starCardType

Object: **starCardFailureLEDOn**

Object ID: enterprises.8164.2.14

Description: The failure LED is illuminated on the card. This trap is obsolete and has been replaced with more specific traps for specific failures.

Objects: **starSlotNum**
starCardType


IMPORTANT: This object is obsolete.

Object: **starCardFailureLEDOff**

Object ID: enterprises.8164.2.15

Description: The failure LED is no longer illuminated on the card. This notification is only generated if the card has previously generated a starCardFailureLEDOn notification. This trap is obsolete and has been replaced with more specific traps for specific failures.

Objects: **starSlotNum**
starCardType

Object: **starCardPACMigrateStart**

Object ID: enterprises.8164.2.16

Description: A PAC/PSC Migration operation has begun. The first varbind identifies the PAC/PSC being migrated away from; the second varbind identifies the PAC being migrated to. **Probable Cause:** This is typically caused by an operator action; it can also represent the system recovering from a software or hardware fault.**Clear Condition:** A starCardPACMigrateComplete is generated when the migration is completed.

Objects: **starSlotNum**
starSlotNum

Object: **starCardPACMigrateComplete**

Object ID: enterprises.8164.2.17

Description: A PAC/PSC Migration operation has successfully completed. The first varbind identifies the PAC/PSC that was migrated away from; the second varbind identifies the PAC/PSC that was migrated to.

Objects: **starSlotNum**
starSlotNum

Object: **starCardPACMigrateFailed**

Object ID: enterprises.8164.2.18

Description: A PAC/PSC Migration operation has failed. The first varbind identifies the PAC/PSC that was attempted to be migrated away from; the second varbind identifies the PAC/PSC that was attempted to be migrated to. Probable Cause: The PAC/PSC being migrated to was removed or reset before the migration completed; the migration operation was terminated by an operator; or a software or hardware failure on either PAC/PSC involved in the migration operation. **Clear Condition:** The PAC/PSC in question will be reset; a starCardUp notification will be generated when the card is operational again.

Objects: **starSlotNum**
starSlotNum

Object: **starCardSPCSwitchoverStart**

Object ID: enterprises.8164.2.19

Description: An SPC switchover operation has begun. The first varbind identifies the SPC being switched away from; the second varbind identifies the SPC being switched to. Note that since an SPC switchover can cause a momentary loss of communication through the management (SPIO) interface, it is possible that this trap will not be successfully delivered. **Probable Cause:** This is typically caused by an operator action; it can also represent the system recovering from a software or hardware fault. **Action to be Taken:** If the SPC switchover was unplanned, the admin logs should be examined for the cause of the switchover. If the cause was a software failure, the system crash logs should be examined. **Clear Condition:** Verify the SPC switchover completes

successfully. **Clear Condition Alarm:** A starCardSPCSwitchoverComplete is generated when the switchover operation has completed.

Objects: **starSlotNum**
starSlotNum

Object: **starCardSPCSwitchoverComplete**

Object ID: enterprises.8164.2.20

Description: An SPC Switchover has completed successfully. The starSlotNum varbind identifies the new primary SPC. **Action to be Taken:** If the SPC switchover was unplanned, the admin logs should be examined for the cause of the switchover. If the cause was a software failure, the system crash logs should be examined.

Objects: **starSlotNum**

Object: **starCardSPCSwitchoverFailed**

Object ID: enterprises.8164.2.21

Description: An SPC switchover operation has failed. The first varbind identifies the SPC that was attempted to be switched away from; the second varbind identifies the SPC that was attempted to be switched to. **Probable Cause:** The SPC being migrated to was removed or reset before the migration completed; the migration operation was terminated by an operator; or a software or hardware failure on either SPC. **Action to be Taken:** Verify that both SPCs have the card locks in the locked position; examine the admin logs for the cause of the failure. If the cause was a software failure, the system crash logs should be examined. **Clear Condition:**The SPC in question will be reset; a starCardUp notification will be generated when the card is operational again.

Objects: **starSlotNum**
starSlotNum

Object: **starFanFailed**

Object ID: enterprises.8164.2.22

Description: One of more fans have failed on the indicated fan controller. **Probable Cause:** A hardware failure on the fan tray. The fan tray should be replaced. Action to be Taken: Verify there is no physical obstruction to the fans; Replace the fan tray. **Clear Condition:** Verify the fans are running Condition Clear Alarm: A starFanInserted notification will be generated when the fan tray is replaced.

Objects: **starFanNum**
starFanStatus

Object: **starFanRemoved**

Object ID:

enterprises.8164.2.23

Description: A fan tray has been removed. **Action to be Taken:** Replace the fan tray. Clear Condition: Verify both fan trays are present and operational. Condition Clear Alarm: A starFanInserted notification will be generated when the fan tray is replaced.

Objects: **starFanNum**

Object: **starFanInserted**

Object ID: enterprises.8164.2.24

Description: A fan tray has been inserted.

Objects: **starFanNum**

Object: **starLogThreshold**

Object ID: enterprises.8164.2.25

Description: A system log has reached its maximum size. This trap is obsolete.

Objects: **starLogName**
starLogCurSize
starLogMaxSize


IMPORTANT: This object is obsolete.

Object: **starCPUBusy**

Object ID: enterprises.8164.2.26

Description: The CPU is experiencing very high usage. **Probable Cause:** For SPC/SMC CPUs this typically represents an abnormal amount of management (CLI, SNMP, CORBA) requests. For PAC/PSC cards this indicates that the system is reaching its capacity. **Action to be Taken:**For SPC/SMC cards, this may be a transient condition because of a burst of management activity. Monitor the CPU usage and if it is persistently high, examine the CPU table to determine which management activity is causing the excessive usage. For PAC/PSC cards, this indicates the system is nearing its overall capacity. Monitor CPU usage and if it is persistently high, the system may need additional PACs/PSCs to keep up with the system load. **Clear Condition:**Verify that CPU usage returned to a normal load. This can represent a transient condition; the trap will be periodically repeated if the condition persists.

Objects: **starCPUSlot**
starCPUNumber

Object:

starCPUMemoryLow

Object ID: enterprises.8164.2.27

Description: The CPU is experiencing a low memory condition. **Probable Cause:** For SPC/SMC CPUs this typically represents an abnormal number of management sessions, in particular CLI sessions. For PAC/PSC cards this indicates that the system is reaching its capacity. Action to be Taken: For SPC/SMC cards, this may be a transient condition because of a burst of management activity. Monitor memory usage and if it is persistently high, examine the CPU table to determine which management activity is causing the excessive usage. Verify that large numbers of CLI sessions are not being generated and, if needed, terminate extra sessions. For PAC/PSC cards, this indicated the system is nearing its overall capacity. Monitor memory usage and if it is persistently high, the system may need additional PACs/PSCs or additional PAC/PSC memory to keep up with the system load. **Clear Condition:** Verify that memory usage returned to a normal load. This can represent a transient condition; the trap will be periodically repeated if the condition persists.

Objects: **starCPUSlot**
starCPUNumber

Object: **starCPUMemoryFailed**

Object ID: enterprises.8164.2.28

Description: The memory on this CPU has failed. **Probable Cause:** This indicates a hardware problem. **Action to be Taken:** Replace the failing card. **Clear Condition:** The card will be reset; a starCardUp will be generated if the card is restored to an operational state.

Objects: **starCPUSlot**
starCPUNumber

Object: **starCPUFailed**

Object ID: enterprises.8164.2.29

Description: The CPU has failed.**Probable Cause:** This indicates a hardware problem. Action to be Taken: Replace the failing card. **Clear Condition:**The card will be reset; a starCardUp will be generated if the card is restored to an operational state.

Objects: **starCPUSlot**
starCPUNumber

Object: **starCPUWatchDogExpired**

Object ID: enterprises.8164.2.30

Description:

The watch dog timer has failed on this CPU. **Probable Cause:** This could indicate an extremely busy CPU, a software problem, or a hardware issue. **Action to be Taken:**Check the admin logs for an indication of the problem. Check the system crash logs for an indication of software problems. If the problem persists, replace the card. **Clear Condition:** Verify that an SPC/SMC switchover or PAC/PSC migration completes successfully to recover from the failure condition. **Condition Clear Alarm:** A starCardUp will be generated if the card is restored to an operational state.

Objects: **starCPUSlot**
starCPUNumber

Object: **starNPUARPPoolExhausted**

Object ID: enterprises.8164.2.31

Description: The ARP pool on this NPU manager is exhausted. When this occurs, the ARP entry isn't added and traffic to the local device is forwarded through a slower path. Action To Be Taken: Reduce the total number of directly connected devices or clear ARP entries.

Objects: **starNPUMgrNumber**

Object: **starPowerFilterUnitFailed**

Object ID: enterprises.8164.2.32

Description: A Power Filter Unit (PFU) failed. **Probable Cause:** The external power source has failed or has been disconnected, or a hardware failure on the PFU. **Action to be Taken:**Verify that the input power to the power filter is operational and repair if needed. Verify that the connections to the power filter are intact and that the power filter is properly inserted into the chassis. Replace the power filter if required. **Clear Condition:**Verify that both power filters are operating.**Condition Clear Alarm:** A starPowerFilterAvail will be generated when the power filter is replaced.

Objects: **starPowerNumber**

Object: **starPowerFilterUnitUnavail**

Object ID: enterprises.8164.2.33

Description: A Power Filter Unit (PFU) is unavailable. **Probable Cause:** The power filter has been removed from the chassis, or no power is being provided to the PFU. Action to be Taken: If the power filter removal wasn't planned, Verify that the input power to the power filter is operational and repair if needed. Verify that the connections to the power filter are intact and that the power filter is properly inserted into the chassis. Replace the power filter if required. **Clear Condition:**Verify that both power filters are operating. **Condition Clear Alarm:** A starPowerFilterUnitAvail will be generated when the power filter is replaced.

Objects:

starPowerNumber

Object: **starPowerFilterUnitAvail**

Object ID: enterprises.8164.2.34

Description: A Power Filter Unit (PFU) is available. This typically means that a PFU has been inserted into the chassis or has its power source restored. Action to be Taken: No action required.

Objects: **starPowerNumber**

Object: **starAlertsDisabled**

Object ID: enterprises.8164.2.37

Description: The sending of SNMP Traps has been disabled because too many alerts were generated within the defined window type. Probable Cause: Either a large number of SNMP notifications are being generated, or the configured threshold which limits the number of notifications is set too aggressively. Actions to be Taken: Examine the admin logs and the SNMP trap logs to determine the source of the large number of traps and take appropriate actions; verify that the configured limit for the rate at which traps will be sent is appropriate for your environment. **Clear Condition Alarm:** Clear Condition Alarm: When the rate of SNMP notifications goes down a starAlertsEnabled notification is generated.

Objects: **starMaxAlertsPerTime**
starWindowTime

Object: **starAlertsEnabled**

Object ID: enterprises.8164.2.38

Description: The sending of SNMP Traps has been re-enabled.

Object: **starAAAAuthServerUnreachable**

Object ID: enterprises.8164.2.39

Description: The Authentication, Authorization and Accounting (AAA) server cannot be reached. **Probable Cause:** The AAA server is down, or there is a network issue preventing communication with the AAA server. Actions to be Taken: Restore the AAA server to an operational status; Verify that the AAA server is reachable by performing a 'ping' operation from the CLI in the appropriate context. Check the admin logs for notification of communication problems. **Clear Condition:** Verify that communication to the AAA authentication server has been restored. **Condition Clear Alarm:** When this condition clears a starAAAAuthServerReachable notification will be generated. Note that if in a AAA group all the configured RADIUS servers are detected as Down, their state is brought back to Active before the deadtime expiry

period so that call setup signaling with AAA can proceed for subsequent requests. Therefore, when the last Active authentication server in the group is detected as Down, **starAAAAuthServerUnreachable** is generated, and immediately later when the server state changes to Active, **starAAAAuthServerReachable** is generated. This behavior is the same when there is only one RADIUS server configured.

Objects: **radiusAuthServerIndex**
radiusAuthServerAddress

Object: **starAAAAuthServerReachable**

Object ID: enterprises.8164.2.40

Description: The Authentication, Authorization and Accounting (AAA) server is now reachable. This can be the result of a system startup, the configuration of a new server, or a previously unreachable server becoming reachable. Action to be Taken: No Action Required.

Objects: **radiusAuthServerIndex**
radiusAuthServerAddress

Object: **starAAAAuthServerMisconfigured**

Object ID: enterprises.8164.2.41

Description: The Authentication, Authorization and Accounting (AAA) server has been misconfigured. This server is not usable until this condition is repaired. **Action to be Taken:** Examine the system configuration and correct the misconfiguration. See the user documentation for details on AAA configuration. **Clear Condition:** Verify that communication to the AAA authentication server has been restored. **Condition Clear Alarm:** When this condition clears a starAAAAuthServerReachable notification will be generated.

Objects: **radiusAuthServerIndex**
radiusAuthServerAddress

Object: **starAAAAccServerUnreachable**

Object ID: enterprises.8164.2.42

Description: The Authentication, Authorization and Accounting (AAA) server cannot be reached. **Probable Cause:** The AAA server is down, or there is a network issue preventing communication with the AAA server. Actions to be Taken: Restore the AAA server to an operational status; Verify that the AAA server is reachable by performing a 'ping' operation from the CLI in the appropriate context. Check the admin logs for notification of communication problems. **Clear Condition:** Verify that communication to the AAA accounting server has been restored.**Condition Clear Alarm:** When this condition clears a starAAAAccServerReachable notification will be generated. Note that if in a AAA group all the configured RADIUS servers are detected as Down, their state is brought back to Active before the deadtime expiry

period so that call setup signaling with AAA can proceed for subsequent requests. Therefore, when the last Active Accounting server in the group is detected as Down, **starAAAAccServerUnreachable** is generated, and immediately later when the server state changes to Active, **starAAAAccServerReachable** is generated. This behavior is the same when there is only one RADIUS server configured.

Objects: **radiusAccServerIndex**
radiusAccServerAddress

Object: **starAAAAccServerReachable**

Object ID: enterprises.8164.2.43

Description: The Authentication, Authorization and Accounting (AAA) server is now reachable. This can be the result of a system startup, the configuration of a new server, or a previously unreachable server becoming reachable. Note that since Accounting servers are not responding to 'hello'-type messages, it is not always possible to accurately determine when an accounting server is reachable. A server may be declared 'reachable' when the ST-16 is ready to start using the server, but before any acknowledgement is actually received from the server. Once accounting information actually is sent to the server a starAAAAccServerUnreachable will be generated if the server does not properly respond. **Action to be Taken:** No Action Required.

Objects: **radiusAccServerIndex**
radiusAccServerAddress

Object: **starAAAAccServerMisconfigured**

Object ID: enterprises.8164.2.44

Description: The Authentication, Authorization and Accounting (AAA) server has been misconfigured. This server is not usable until this condition is repaired. **Action to be Taken:** Examine the system configuration and correct the misconfiguration. See the user documentation for details on AAA configuration. **Clear Condition:** Verify that communication to the AAA authentication server has been restored. **Condition Clear Alarm:** When this condition clears a starAAAAccServerReachable notification will be generated.

Objects: **radiusAccServerIndex**
radiusAccServerAddress

Object: **starLogMsg**

Object ID: enterprises.8164.2.45

Description: A log message. This trap is used only for debugging.

Objects: **starLogText**

Object:

starPDSNServiceStart

Object ID: enterprises.8164.2.46

Description: A PDSN service has started. **Action to be Taken:** No action required.

Objects: **starServiceVpnName**
starServiceServName

Object: **starPDSNServiceStop**

Object ID: enterprises.8164.2.47

Description: A PDSN service has stopped. **Probable Cause:** This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration. Action to be Taken: If the PDSN service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure. **Clear Condition:** Verify that the PDSN service is operational. **Condition Clear Alarm:** A starPDSNServiceStart notification will be generated when the service is restarted.

Objects: **starServiceVpnName**
starServiceServName

Object: **starHAServiceStart**

Object ID: enterprises.8164.2.48

Description: An HA service has started.**Action to be Taken:** No action required.

Objects: **starServiceVpnName**
starServiceServName

Object: **starHAServiceStop**

Object ID: enterprises.8164.2.49

Description: An HA service has stopped.**Probable Cause:** This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration. Action to be Taken: If the PDSN service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure. Clear Condition: Verify that the PDSN service is operational. **Condition Clear Alarm:** A starHAServiceStart notification will be generated when the service is restarted.

Objects: **starServiceVpnName**
starServiceServName

Object:	**starFAServiceStart**
Object ID:	enterprises.8164.2.50
Description:	An FA service has started.**Action to be Taken:** No action required.
Objects:	**starServiceVpnName** **starServiceServName**
Object:	**starFAServiceStop**
Object ID:	enterprises.8164.2.51
Description:	An FA service has stopped.**Probable Cause:** This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration. Action to be Taken: If the FA service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure. Clear Condition: Verify that the FA service is operational. **Condition Clear Alarm:** A starFAServiceStart notification will be generated when the service is restarted.
Objects:	**starServiceVpnName** **starServiceServName**
Object:	**starCLISessionStart**
Object ID:	enterprises.8164.2.52
Description:	An interactive CLI session has started. **Condition Clear Alarm:** A starCLISessionEnd notification will be sent when the CLI session is terminated.
Objects:	**starCLIUsername** **starCLIPrivs** **starCLITtyname**
Object:	**starCLISessionEnd**
Object ID:	enterprises.8164.2.53
Description:	An interactive CLI session has ended. The CLI session may have been terminated by the CLI user; the session may have expired due to an idle timeout, or a session timeout; or the session may have been terminated by operator intervention.
Objects:	**starCLIUsername** **starCLIPrivs** **starCLITtyname**
Object:	

starCritTaskFailed

Object ID: enterprises.8164.2.54

Description: A critical task has failed and the appropriate recovery steps begun. The card containing the failed task will be restarted; migration/recovery operations will proceed.**Probable Cause:** Software error. Actions to be Taken: Examine the admin logs for an indication of the source of the failure. Clear Condition: Verify that an SPC/SMC switchover or PAC migration completes to recover from this condition. Condition Clear Alarm: A starCardUp will be generated when the card has successfully restarted.

Objects: **starTaskFacilityName**
starTaskInstance
starTaskCard
starTaskCPU

Object: **starCardActive**

Object ID: enterprises.8164.2.55

Description: The card is now active.

Objects: **starSlotNum**
starCardType

Object: **starLACServiceStart**

Object ID: enterprises.8164.2.56

Description: A LAC service has started.**Action to be Taken:** No action required.

Objects: **starServiceVpnName**
starServiceServName

Object: **starLACServiceStop**

Object ID: enterprises.8164.2.57

Description: A LAC service has stopped.**Probable Cause:** This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration. Action to be Taken: If the LAC service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure. Clear Condition: Verify that the LAC service is operational. **Condition Clear Alarm:** A starLACServiceStart notification will be generated when the service is restarted.

Objects: **starServiceVpnName**

starServiceServName

Object: **starLNSServiceStart**

Object ID: enterprises.8164.2.58

Description: A LNS service has started.**Action to be Taken:** No Action Required.

Objects: **starServiceVpnName**
starServiceServName

Object: **starLNSServiceStop**

Object ID: enterprises.8164.2.59

Description: A LNS service has stopped.**Probable Cause:** This is typically caused by operator invention. In rare cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration. **Action to be Taken:** If the LNS service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure. **Clear Condition:**Verify that the LNS service is operational. **Condition Clear Alarm:** A starLNSServiceStart notification will be generated when the service is restarted.

Objects: **starServiceVpnName**
starServiceServName

Object: **starCardDown**

Object ID: enterprises.8164.2.60

Description: The card is now down.**Probable Cause:** The card was shut down by an operator; the card was removed by an operator; or a hardware or software fault caused the card to shut down. In the latter case an additional notification is generated with the specific failure. **Action to be Taken:**If the card shutdown was not planned, verify that the card is present in the system and its card lock is in the locked position. Check the admin logs for the cause of the card shutdown. Clear Condition: Verify that an SPC switchover/card migration completes to recover from the card shutdown. Condition Clear Alarm: A starCardUp notification is generated when the card is restarted.

Objects: **starSlotNum**
starCardType

Object: **dsx3LineStatusChange**

Object ID: enterprises.8164.2.61

Description:

As defined by RFC2496, this trap (mib-2.10.30.15.0 1) is sent when there is a change in the value of an dsx3LineStatus instance. If the line status change is the result of a line status change at a lower level (i.e. ds1), then no traps for the ds3 are sent.

Objects: **dsx3LineStatus**
dsx3LineStatusLastChange

Object: **dsx1LineStatusChange**

Object ID: enterprises.8164.2.62

Description: As defined by RFC2496, this trap (mib-2.10.18.15.0 1) is sent when there is a change in the value of an dsx1LineStatus instance. If the line status change is the result of a line status change at a higher level (i.e. ds3), then no traps for the ds1 are sent.

Objects: **dsx1LineStatus**
dsx1LineStatusLastChange

Object: **starGGSNServiceStart**

Object ID: enterprises.8164.2.63

Description: A GGSN Service has started. **Action to be Taken:** No action required.

Objects: **starServiceVpnName**
starServiceServName

Object: **starGGSNServiceStop**

Object ID: enterprises.8164.2.64

Description: A GGSN Service has stopped. **Probable Cause:** This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration. Action to be Taken: If the GGSN service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure. **Clear Condition:** Verify that the GGSN service is operational. **Condition Clear Alarm:** A starGGSNServiceStart notification will be generated when the service is restarted

Objects: **starServiceVpnName**
starServiceServName

Object: **starLicenseExceeded**

Object ID: enterprises.8164.2.65

Description: The licenses session limit has been exceeded; note that a small number of sessions are permitted beyond the licensed limit. Probable Cause: The usage of the system has

exceeded the capacity of the license installed; The license installed does not match the identification of the system; No license is installed. **Action to be Taken:**Verify that the proper license is installed on the system; verify that the SPCs present in the system match those identified in the software license. If required, install an additional higher-capacity license. **Clear Condition:** This condition is cleared when usage goes under the licensed limit. Condition Clear Alarm: This condition is cleared by a starLicenseUnderLimit notification.

Objects: **starLicensedSessions**
starCurrentSessions
starServiceType

Object: **starSubscriberLimit**

Object ID: enterprises.8164.2.66

Description: The specified service has reached its configured limit for number of subscribers. **Action to be Taken:** Verify that the configured subscriber limit is correct. Configure additional services, or configure the existing service to permit a larger number of subscribers.

Objects: **starServiceVpnName**
starServiceServName
starServiceSubLimit
starServiceSubCurrent
starServiceType

Object: **starSessionRejectNoResource**

Object ID: enterprises.8164.2.67

Description: A session setup was rejected because of a lack of available resources. **Probable Cause:** The system has reached its maximum capacity based on the number of available PACs/PSCs/CPUs/memory. Actions to be Taken: Examine the system CPU table to determine if there is abnormal system usage or if the system is reaching its capacity. If this condition persists, additional PACs/PSCs or PAC/PSC memory may be required. Note that there is a configuration threshold which can be setup to monitor the number of NORESOURCE rejects.

Objects: **starServiceVpnID starServiceType**

Object: **starLongDurTimerExpiry**

Object ID: enterprises.8164.2.68

Description: The long duration timer has expired for the identified subscriber. Action to be Taken: No action is typically required. If an abnormal number of expiries occur, verify that the configuration expiry time is correct.

Objects:

starSubContext
starSubMSID
starSubName
starSubTimerDuration
starSubLongDurTimeoutAction
starSubSetupTime
starSubHomeAddr
starSubHomeAddrv6

Object: **starClosedRPServiceStart**

Object ID: enterprises.8164.2.69

Description: Closed RP Service has started. **Action to be Taken:** No action required.

Objects: **starServiceVpnName**
starServiceServName

Object: **starClosedRPServiceStop**

Object ID: enterprises.8164.2.70

Description: Closed RP Service has stopped. **Probable Cause:** This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration. Action to be Taken: If the Closed RP service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure. **Clear Condition:** Verify that the Closed RP service is operational. **Condition Clear Alarm:** A starClosedRPServiceStart notification will be generated when the service is restarted

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Objects: **starServiceVpnName**
starServiceServName

Object: **starGtpcPathFailure**

Object ID: enterprises.8164.2.71

Description: GTP Control Path Failure.

Objects: **starSessGGSNVpnName**
starSessGGSNServName
starSessGGSNPeerAddr

Object: **starGtpuPathFailure**

Object ID: enterprises.8164.2.72

Description: GTP Data Path Failure.

Objects:	**starSessGGSNVpnName** **starSessGGSNServName** **starSessGGSNPeerAddr**

Object:	**starManagerFailure**
Object ID:	enterprises.8164.2.73
Description:	Software manager Failure.**Probable Cause:** A software failure. The failing manager will be restarted. **Action to be Taken:** Examine the admin and crash logs for more information about the failure.

Objects:	**starTaskFacilityName** **starTaskInstance** **starTaskCard** **starTaskCPU**

Object:	**starEISServerAlive**
Object ID:	enterprises.8164.2.74
Description:	EIS Server alive.

Objects:	**starEISServerVPNID** **starEISServerAddr**

Object:	**starEISServerDead**
Object ID:	enterprises.8164.2.75
Description:	EIS Server down. Probable Cause: The remote EIS server is down or there is a network error making it unreachable. Condition Clear Alarm: A starEISServerAlive notification will be generated when this condition is cleared

Objects:	**starEISServerVPNID** **starEISServerAddr**

Object:	**starCgfAlive**
Object ID:	enterprises.8164.2.76
Description:	GTPP CGF Server Alive.

Objects:	**starSessGGSNVpnName** **starSessGGSNPeerPort** **starSessGGSNPeerAddr**

Object:	**starCgfDead**

Object ID: enterprises.8164.2.77

Description: GTPP CGF Server Dead.**Probable Cause:** The remote CGF server is down or there is a network error making it unreachable. Action to be Taken: Verify that the CGF server is functioning properly; verify network connectivity to the CGF server. **Clear Condition:** This condition is cleared when the CGF server becomes reachable. Condition Clear Alarm: A starCgfServerAlive notification will be generated when this condition is cleared

Objects: **starSessGGSNVpnName**
starSessGGSNPeerPort
starSessGGSNPeerAddr

Object: **starStorageServerAlive**

Object ID: enterprises.8164.2.78

Description: GTPP Storage Server is Alive.

Objects: **starSessGGSNVpnName**
starSessGGSNPeerAddr

Object: **starStorageServerDead**

Object ID: enterprises.8164.2.79

Description: GTPP Storage Server is Dead. **Probable Cause:** The remote storage server is down. There is a network error making it unreachable.**Action to be Taken:** Verify that the storage server is functioning properly; verify network connectivity to the storage server. **Clear Condition:** This condition is cleared when the Storage server becomes reachable. **Condition Clear Alarm:** A starStorageServerAlive notification is generated when this condition is cleared.

Objects: **starSessGGSNVpnName**
starSessGGSNPeerAddr

Object: **starGgsnInitiatedUpdtFailed**

Object ID: enterprises.8164.2.80

Description: GGSN Initiated Update PDP Context Response Failed. **Probable Cause:** This can happen if there is an inter-SGSN handoff and the new SGSN is not listed in GGSN service and its PLMN policy is set to reject unknown SGSNs. Action to be Taken: List the SGSN address in the GGSN service.**Condition Clear Alarm:** N/A

Objects: **starSessGGSNVpnName**
starSessGGSNServName
starSessGGSNSubsName

starSessGGSNAPNName
starSessGGSNImsi
starSessGGSNPeerAddr

Object: **starCongestion**

Object ID: enterprises.8164.2.81

Description: A congestion condition has occurred. **Probable Cause:** This is the result of an operator-configured congestion threshold being reached. This can be due to high usage of the resource being monitored which indicates that the system is reaching its peak capacity, or could be caused by the incorrect configuration of the congestion thresholds. Actions to be Taken: Verify that the congestion thresholds are correct; if the congested state is seem repeatedly, or for sustained periods of time, additional system capacity may need to be brought online. **Clear Condition:** This system is cleared when the use of the specific resource falls below the configured limit. Condition Clear Alarm: A starCongestionClear notification is sent when there are no congestion conditions for a service type

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Objects: **starServiceType**
starCongestionPolicy
starCongestionResourceType

Object: **starCongestionClear**

Object ID: enterprises.8164.2.82

Description: A congestion condition has cleared.

Objects: **starServiceType**

Object: **starCscfSessResourceCongestion**

Object ID: enterprises.8164.2.1114

Description: A congestion condition has occurred at Session Manager for Cscf Service. **Probable Cause:** This is the result of an operator-configured congestion threshold being reached for Cscf Service at Session Manager. This can be due to high usage of the resource being monitored which indicates that the IMG is reaching its peak capacity, or could be caused by the incorrect configuration of the congestion thresholds. **Action to be Taken**: Verify that the congestion thresholds are correct; if the congested state is seem repeatedly, or for sustained periods of time, additional system capacity may need to be brought online. **Condition Clear Alarm**: A starCscfSessResourceCongestionClear notification is sent when there are no congestion conditions for cscf service in that Session Manager Instance.

Objects: **starSmgrId**
starCongestionPolicy
starCscfSessCongestionResourceType

Object:

starCscfSessResourceCongestionClear

Object ID: enterprises.8164.2.1115

Description: A congestion condition has cleared at Session Manager for Cscf service

Objects: **starSmgrId**

Object: **starServiceLossPTACs**

Object ID: enterprises.8164.2.83

Description: A service loss condition has occurred due to PAC/PSC/TAC failure or removal. **Probable Cause:** Multiple PAC/PSC/TAC cards are no longer available, due to failure, removal, or operator action -- or configuration changes have been made which eliminated the availability of redundant cards. **Action to be Taken**: Bring additional PAC/PSC/TAC cards online to match the number of configured cards, or update the configuration to require fewer active PAC/PSC/TAC cards. **Clear Condition:** This condition is cleared when the number of active PAC/PSC/TAC cards reaches or exceeds the configured number.

Objects: **starCardMode**
starPTACConfig
starPTACActive

Object: **starServiceLossLC**

Object ID: enterprises.8164.2.84

Description: A service loss condition has occurred due to LC failure or removal. Probable Cause: Multiple Line Cards (LCs) are no longer available, due to failure, removal, or operator action.**Action to be Taken:** Bring additional LCs online to match the number of configured cards, or update the configuration to require fewer active LCs. **Clear Condition:**This condition is cleared when the number of active line cards reaches or exceeds the configured number.

Objects: **starCardType**
starSlotNum
starSlotNum

Object: **starServiceLossSPIO**

Object ID: enterprises.8164.2.85

Description: A service loss condition has occurred due to SPIO failure or removal. Since the SPIO contains the ports used for SNMP access, this notification cannot normally be delivered as an SNMP trap. The notification will be logged and stored in the historical trap list, and if the system is configured to send INFORM PDUs the notification might be delivered at a later time. Probable Cause: Both SPIOs are no longer available, due

to failure, removal, or operator action. Action to be Taken: Bring at least one SPIO online. Clear Condition: This condition is cleared when a SPIO is made active

Object: **starIPSPAllAddrsFree**

Object ID: enterprises.8164.2.86

Description: All IP addresses are now free on the IP Pool Sharing Protocol (IPSP) primary HA. **Probable Cause:** IP Pool Sharing Protocol (IPSP) is running between two HAs (a primary and a secondary). The primary HA has now released the last address that was in use. This presumably is done in preparation for taking the primary HA out of server. **Action to be Taken:** Perform the desired maintenance on the primary HA that required taking the device out of service.

Objects: **starContextName**
starInterfaceName

Object: **starPCFUnreachable**

Object ID: enterprises.8164.2.87

Description: A PCF that the system communicates with is no longer reachable. Probable Cause: The PCF has failed or is otherwise unavailable, or a network connectivity problem makes it unreachable. **Action to be Taken:** If the PCF outage was unplanned, restart/reset the PCF; verify network connectivity

Objects: **starContextName**
starPCFAddress

Object: **starDhcpAlive**

Object ID: enterprises.8164.2.88

Description: DHCP Server Alive.

Objects: **starSessGGSNVpnName**
starSessGGSNPeerPort
starSessGGSNPeerAddr

Object: **starDhcpDead**

Object ID: enterprises.8164.2.89

Description: DHCP Server Dead. Probable Cause: The remote DHCP server is down or there is a network error making it unreachable. **Action to be Taken:**Verify that the DHCP server is functioning properly; verify network connectivity to the DHCP server. **Clear Condition:** The condition is cleared when the DHCP server becomes reachable, or if the configuration is changes to not use this server. **Condition Clear Alarm:** A starDhcpAlive notification is generated when the server becomes reachable.

Objects: **starSessGGSNVpnName**
starSessGGSNPeerPort
starSessGGSNPeerAddr

Object: **starNTPPeerUnreachable**

Object ID: enterprises.8164.2.90

Description: NTP Peer Unreachable.**Probable Cause:** The NTP server is down or unavailable, or there is a network connectivity issue that prevents access to the NTP server. **Action to be Taken:Action to be Taken:** Verify that the NTP server is running properly; verify that the connection to the NTP server is functioning. **Clear Condition:** This condition is cleared when the NTP server becomes reachable. **Condition Clear Alarm:** This condition is cleared by a starNTPPeerReachable notification.

Objects: **starPeerAddress**

Object: **starNTPSyncLost**

Object ID: enterprises.8164.2.91

Description: NTP Synchronization Lost. **Probable Cause:** All configured NTP server are no longer available, or some/all NTP servers have been un-configured by an operator. Action to be Taken: **Action to be Taken:** Verify that the NTP server(s) are running properly and that the network connections to the NTP servers are available. Check the configured of the NTP servers for correctness. If needed, configure additional NTP servers. Clear Condition: This condition is cleared when any (one) NTP server becomes reachable. **Condition Clear Alarm:** This condition is cleared by a starNTPSyncEstablished notification.

Object: **starL2TPTunnelDownPeerUnreachable**

Object ID: enterprises.8164.2.92

Description: L2TP tunnel down due to peer unreachable. **Probable Cause:** Misconfiguration of the peer router address or inability to route to the peer. Action to be Taken: Verify the peer address is correct; verify that the peer is operational; verify network connectivity to the peer.

Objects: **starL2TPLocalTunnelID**
starL2TPPeerTunnelID
starL2TPContextName
starL2TPServiceName
starL2TPServiceTypeName
starL2TPLocalAddress
starL2TPPeerAddress

Object: **starCardStandby**

Object ID:

enterprises.8164.2.93

Description: The card is now standby.

Objects: **starSlotNum**
starCardType

Object: **starLicenseUnderLimit**

Object ID: enterprises.8164.2.94

Description: Usage is now under the licensed session limit.

Objects: **starLicensedSessions**
starCurrentSessions
starServiceType

Object: **starIPSECPriTunDown**

Object ID: enterprises.8164.2.95

Description: IPSEC Primary Tunnel Down

Objects: **starIPSECContextName**
starIPSECGroupName
starIPSECTunLocalIPAddr
starIPSECTunRemoteIPAddr

Object: **starIPSECPriTunUp**

Object ID: enterprises.8164.2.96

Description: IPSEC Primary Tunnel Up

Objects: **starIPSECContextName**
starIPSECGroupName
starIPSECTunLocalIPAddr
starIPSECTunRemoteIPAddr

Object: **starIPSECSecTunDown**

Object ID: enterprises.8164.2.97

Description: IPSEC Secondary Tunnel Down

Objects: **starIPSECContextName**
starIPSECGroupName
starIPSECTunLocalIPAddr

starIPSECTunRemoteIPAddr

Object: **starIPSECSecTunUp**

Object ID: enterprises.8164.2.98

Description: IPSEC Secondary Tunnel Up

Objects: **starIPSECContextName**
starIPSECGroupName
starIPSECTunLocalIPAddr
starIPSECTunRemoteIPAddr

Object Group:
starIPSECTunSwitchFail

Object ID: enterprises.8164.2.99

Description: IPSEC Tunnel Switchover failed or unable to be attempted

Objects: **starIPSECContextName**
starIPSECGroupName

Object: **starIPSECTunSwitchComplete**

Object ID: enterprises.8164.2.100

Description: IPSEC Tunnel Switchover complete

Objects: **starIPSECContextName**
starIPSECGroupName
starIPSECTunLocalIPAddr
starIPSECTunRemoteIPAddr

Object: **starNwReachServerAlive**

Object ID: enterprises.8164.2.101

Description: Nw Reachable Server alive

Objects: **starNwReachName**
starNwReachSrvrAddr

Object: **starNwReachServerDead**

Object ID: enterprises.8164.2.102

Description:

Nw Reachable Server Dead. **Probable Cause:** The remote server is down or there is a network error making it unreachable. A starNwReachServerAlive notification will be generated when this condition is cleared

Objects: **starNwReachName**
starNwReachSrvrAddr

Object: **starStorageServerUnackedGcdrVolPurge**

Object ID: enterprises.8164.2.103

Description: GTPP storage server has performed un-acked GCDRs volume purge. Probable Cause: GTPP storage server has purged un-acked GCDRs after hitting the max allowed configured limit on un-acked GCDR in the backup database. Action to be Taken: Check for the unacked file generated for these GCDRs. Clear Condition: There is no clear condition for this notification. Condition Clear Alarm: There is no clear alarm for this notification.

Objects: **starSessGGSNVpnName**
starSessGGSNPeerAddr

Object: **starStorageServerUnackedGcdrFileGen**

Object ID: enterprises.8164.2.104

Description: GTPP storage server has exported the unacked GCDRs to file from backup db. **Probable Cause:** GTPP storage server has generated and saved all the unacked GCDRs to file.**Action to be Taken:** Operator needs to FTP the generated file. **Clear Condition:** There is no clear condition for this notification. **Condition Clear Alarm:** There is no clear alarm for this notification.

Objects: **starSessGGSNVpnName**
starSessGGSNPeerAddr

Object: **starNTPPeerReachable**

Object ID: enterprises.8164.2.105

Description: NTP Peer Reachable.**Probable Cause:** The NTP server is reachable. This could indicate a newly configured NTP server (including an initial configuration on system startup) or could indicate a previously unreachable server has become reachable. **Action to be Taken:** No action required.

Objects: **starPeerAddress**

Object: **starNTPSyncEstablished**

Object ID: enterprises.8164.2.106

Description:

NTP Synchronization Established. **Probable Cause:** An NTP server is available when previously no server was available. This could indicate a newly configured NTP server (including an initial configuration on system startup) or could indicate that one or more previously unreachable server(s) has become reachable.**Action to be Taken:** No action required.

Object: **starSIPServiceStart**

Object ID: enterprises.8164.2.107

Description: A SIP service has started**Action to be Taken:** No action required

Objects: **starServiceVpnName**
starServiceServName

Object: **starSIPServiceStop**

Object ID: enterprises.8164.2.108

Description: A SIP service has stopped**Action to be Taken:** No action required

Objects: **starServiceVpnName**
starServiceServName

Object: **starVIMServiceStart**

Object ID: enterprises.8164.2.109

Description: A VIM service has started**Action to be Taken:** No action required

Syntax: starServiceVpnName
starServiceServName

Object: **starVIMServiceStop**

Object ID: enterprises.8164.2.110

Description: A VIM service has stopped. This is because of application out-of-service or if vim is down or no app. server **Action to be Taken:** No action required

Objects: **starServiceVpnName**
starServiceServName

Object: **starCHATCONFServiceStart**

Object ID: enterprises.8164.2.111

Description:

A CHAT/CONF service has started **Action to be Taken:** No action required

Objects:	**starServiceVpnName** **starServiceServName**

Object:	**starCHATCONFServiceStop**
Object ID:	enterprises.8164.2.112
Description:	A CHAT/CONF service has stopped. This is because of application out-of-service or if chatconf is down or no app. server**Action to be Taken:** No action required

Objects:	**starServiceVpnName** **starServiceServName**

Object:	**starSIPRouteNomatch**
Object ID:	enterprises.8164.2.113
Description:	SIP session has failed since there is no match in the routing table with matching prefix **Action to be Taken:** Operator has to configure with matching prefix if required

Objects:	**starSIPRouteVpnName** **starSIPRouteVmgName** **starSIPRouteAsName** **starSIPRouteDestPartyNum** **starSIPRouteReqNum**

Object:	**starL3AddrUnreachable**
Object ID:	enterprises.8164.2.114
Description:	A L3 Address is unreachable through the specific slot and port. Action to be taken: No action required

Objects:	**starL3Address** **starPortSlot** **starPortNum**

Object:	**starSWUpgradeStart**
Object ID:	enterprises.8164.2.115
Description:	An operator has begun to upgrade the software on the ST-16.

Object:	**starSWUpgradeComplete**
Object ID:	enterprises.8164.2.116

Description: An operator-initiated software upgrade has been completed.

Object: **starSWUpgradeAborted**

Object ID: enterprises.8164.2.117

Description: An operator-initiated software upgrade has been aborted.

Object: **starBGPPeerSessionUp**

Object ID: enterprises.8164.2.118

Description: The BGP peer session to the specified IP address is operational. This may indicate the initial configuration of a new peer, the initial connectivity after a system restart, or the restoration of connectivity after a starBGNPeerSessionDown event. **Action to be Taken:** No action required.

Objects: **starContextName**
starBGPPeerIPAddress

Object: **starBGPPeerSessionDown**

Object ID: enterprises.8164.2.119

Description: The BGP peer session to the specified IP address is no longer operational. **Probable Cause:** The BGP peer is not-operational; the network between the ST-16 and the BGP peer is experiencing an outage; LC failure(s) on the ST-16. **Action to be Taken:** Verify the BGP peer is operational; verify network connectivity to the BGP peer.**Clear Condition Alarm:** starBGPPeerSessionUp is generated when connectivity is reestablished

Objects: **starContextName**
starBGPPeerIPAddress

Object: **starSRPActive**

Object ID: enterprises.8164.2.120

Description: The SRP Chassis Status is now Active. **Action to be Taken:** No action is required.

Objects: **starContextName**
starSRPIPAddress

Object: **starSRPStandby**

Object ID: enterprises.8164.2.121

Description:

The SRP Chassis Status is now Standby. **Action to be Taken:** No action is required.

Objects:	**starContextName** **starSRPIPAddress**

Object:	**starBGPPeerReachable**
Object ID:	enterprises.8164.2.122
Description:	The monitored BGP peer is now Reachable. This notification can represent the initial detection of the peer's state, or the re-connection to a peer after a starBGPPeerDown notification.**Action to be Taken:** No action is required.

Objects:	**starContextName** **starSRPIPAddress** **starUDPPortNum** **starBGPPeerIPAddress**

Object:	**starBGPPeerUnreachable**
Object ID:	enterprises.8164.2.123
Description:	The monitored BGP peer is now Unreachable. **Action to be Taken:** Verify that the BGP Peer is running and is properly configured. Verify the network link to the BGP Peer.**Clear Condition:** This condition is cleared when communication with the BGP peer is reestablished. Condition Clear Alarm: This condition is cleared by a starBGPPeerReachable notification.

Objects:	**starContextName** **starSRPIPAddress** **starUDPPortNum** **starBGPPeerIPAddress**

Object:	**starSRPAAAReachable**
Object ID:	enterprises.8164.2.124
Description:	The SRP AAA monitor has found a reachable AAA server. This notification can represent the initial detection of an AAA server, or the restoration of reachability after a starSRPAAAUnreachable notification. This notification is only generated if there was previously no reachable AAA server. Action to be Taken: No action required.

Objects:	**starContextName** **starSRPIPAddress** **starUDPPortNum**

Object:	**starSRPAAAUnreachable**
Object ID:	enterprises.8164.2.125

Description: The SRP AAA monitor has determined that all AAA servers are unreachable. **Action to be Taken:** Verify the state of the configured AAA server(s) and restart them if required. Verify the network link to the AAA Server(s). Configure additional AAA servers if required. **Clear Condition:**This condition is cleared when communication with any single AAA service is (re)established.**Condition Clear Alarm:** This condition is cleared by a starSRPAAAReachable notification.

Objects: **starContextName**
starSRPIPAddress
starUDPPortNum

Object: **starHASwitchoverInitiated**

Object ID: enterprises.8164.2.126

Description: An HA Switchover operation has been initiated by an operator. Action to be Taken: Verify that the switchover was a planned operator action.

Objects: **starContextName**
starSRPIPAddress

Object: **starSRPCheckpointFailure**

Object ID: enterprises.8164.2.127

Description: The system has detected that a checkpoint messaged failed to be sent successfully to the standby HA. If the active HA were to fail, this information will be lost. Action to be Taken: Verify the communication path to the Standby HA.

Objects: **starContextName**
starSRPIPAddress

Object: **starSRPConfigOutOfSync**

Object ID: enterprises.8164.2.128

Description: The system has detected that the standby HA has a different configuration than the active HA. In the event of a failure of the active HA, it is possible that the standby HA is not configured properly to be able to take over. **Action to be Taken:** Update the configuration of the standby HA to match the active HA. **Clear Condition:** This condition is cleared when the active HA confirms that the standby HA has an identify configuration. **Condition Clear Alarm:** This condition is cleared by a starSRPConfigInSync notification.

Objects: **starContextName**
starSRPIPAddress

Object: **starSRPConfigInSync**

Object ID: enterprises.8164.2.129

Description: The system has detected that the standby HA has a matching configuration as the active HA. This notification is generated only after a starSRPConfigOutOfSync notification. Action to be Taken: No action required.

Objects: **starContextName**
starSRPIPAddress

Object: **starGESwitchFailure**

Object ID: enterprises.8164.2.130

Description: A failure of an internal Gigabit Ethernet switch has been detected. If it is possible to determine the slow containing the failed switch it is identified in starSlotNum, otherwise starSlotNum is 0. **Action to be Taken:** If this condition persists, the identified card needs to be replaced.

Objects: **starSlotNum**

Object: **starSIPRouteServerAvailable**

Object ID: enterprises.8164.2.131

Description: SIP route server is available. **Action to be Taken:** No action required.

Objects: **starSIPRouteServerVpnName**
starSIPRouteServerVmgName
starSIPRouteServerAsName
starSIPRouteServerIpAddr

Object: **starSIPRouteServerUnavailable**

Object ID: enterprises.8164.2.132

Description: SIPsession has failed since the route server is unavailable. Action to be Taken: Operator has to check the reason for the unavailability of the server an act accordingly.

Objects: **starSIPRouteServerVpnName**
starSIPRouteServerVmgName
starSIPRouteServerAsName
starSIPRouteServerIpAddr

Object: **starFMDMaxCallRateReached**

Object ID: enterprises.8164.2.133

Description:

FMD max call rate reached**Action to be Taken:** Increase the value of fmd-max-call-rate or set no fmd-max-call-rate. Condition Clear Alarm: This condition is cleared by a starFMDCallRateUnderControl notification

Objects: **starVIMServiceVpnName**
starVIMServiceInstanceId
starVIMServiceFMDMaxCallRate
starVIMServiceFMDContinuousLoadCount

Object: **starFMDCallRateUnderControl**

Object ID: enterprises.8164.2.134

Description: FMD call rate is under control. **Action to be Taken:** No action required.

Objects: **starVIMServiceVpnName**
starVIMServiceInstanceId
starVIMServiceFMDMaxCallRate
starVIMServiceFMDContinuousLoadCount

Object: **starStorageServerCPUBusy**

Object ID: enterprises.8164.2.135

Notifications: GTPP Storage Server is experiencing high CPU usage. The usage has exceeded an operator-configure value.

IMPORTANT: Note that this is an external server, not part of the ST16/ASR 5000 - series hardware.

Description: **Probable Cause:** The amount of information being sent to the Storage Server is approaching the server's capacity; the Storage Server has other tasks running on it which are taking CPU time; a problem with the Storage Server is causing the CPU to be abnormally busy Condition Clear Alarm: This condition is cleared by a starStorageServerCPUNormal notification

Objects: **starSessGGSNVpnName**
starSessGGSNPeerAddr
starThreshPct
starThreshMeasuredPct
starGSSClusterName
starGSSClusterNodeName

Object: **starStorageServerCPUNormal**

Object ID: enterprises.8164.2.136

Description: GTPP Storage Server CPU usage has returned to a normal range.


IMPORTANT: Note that this is an external server, not part of the chassis.

Objects: **starSessGGSNVpnName**
starSessGGSNPeerAddr
starThreshPct
starThreshMeasuredPct
starGSSClusterName
starGSSClusterNodeName

Object: **starStorageServerDiskSpaceLow**

Object ID: enterprises.8164.2.137

Description: GTPP Storage Server is experiencing low available disk space. The available disk space has gone below an operator-configure value.


IMPORTANT: Note that this is an external server, not part of the chassis.

Description: **Probable Cause:** This can be caused by an improper configuration, or by the failure or removal of other cards in the system. Condition Clear Alarm: This condition is cleared by a starStorageServerDiskSpaceOK notification.

Objects: **starSessGGSNVpnName**
starSessGGSNPeerAddr
starThreshGB
starThreshMeasuredGB
starGSSClusterName
starGSSClusterNodeName

Object: **starStorageServerDiskSpaceOK**

Object ID: enterprises.8164.2.138

Description: Available disk space for GTPP Storage Server is now in a normal range.


IMPORTANT: Note that this is an external server, not part of the chassis.

Objects: **starSessGGSNVpnName**
starSessGGSNPeerAddr
starThreshPct
starThreshMeasuredPct
starGSSClusterName
starGSSClusterNodeName

Object: **starCardSPOFAlarm**

Object ID: enterprises.8164.2.139

Description: The identified card is a Single Point of Failure (SPOF). There is no redundant card available to take over in the event of a failure. Probable Cause: This can be caused by an improper configuration, or by the failure or removal of other cards in the system. **Action to be Taken:**Install or configure additional redundant cards. **Condition Clear Alarm:** A starCardSPOFClear notification will be generated is a redundant card becomes available. Notifications like starCardDown could also obsolete this notification.

Objects: **starSlotNum**
starCardType

Object: **starCardSPOFClear**

Object ID: enterprises.8164.2.140

Description: The identified card is no longer a Single Point of Failure (SPOF).

Objects: **starSlotNum**
starCardType

Object: **starStorageServerOldGcdrPending**

Object ID: enterprises.8164.2.141

Description: GCDR files on the Storage Server have been unprocessed since the configured threshold value of time period.


IMPORTANT: Note that this is an external server, not part of the ST-16.

Description: **Probable Cause:** No action has been taken long for the GCDR files generated by Storage Server. **Condition Clear Alarm:** This condition is cleared by a starStorageServerOldGcdrCleared notification.

Objects: **starSessGGSNVpnName**
starSessGGSNPeerAddr
starThreshInt
starThreshMeasuredInt
starGSSClusterName
starGSSClusterNodeName

Object: **starStorageServerOldGcdrCleared**

Object ID: enterprises.8164.2.142

Description:

GCDR files on the Storage Server have been processed on the Storage Server. The threshold condition is now clear.

IMPORTANT: Note that this is an external server, not part of the ST16/ASR 5000-series hardware.

Objects: **starSessGGSNVpnName**
starSessGGSNPeerAddr
starThreshInt
starGSSClusterName
starGSSClusterNodeName

Object: **starLoginFailure**

Object ID: enterprises.8164.2.143

Description: A login failure occurred attempting to establish a CLI or FTP session.

Objects: **starCLITtyname**
starCLIRemoteIPAddr
starCLIType

Object Group: **starIPSGServiceStart**

Object ID: enterprises.8164.2.144

Description: A IP Services Gateway (IPSG) Service has started.

Objects: **starServiceVpnName**
starServiceServName

Object: **starIPSGServiceStop**

Object ID: enterprises.8164.2.145

Description: A IP Services Gateway (IPSG) Service has stopped. Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration. **Action to be Taken:** If the IPSG service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure. **Clear Condition:** Verify that the IPSG service is operational.**Condition Clear Alarm:** A starIPSGServiceStart notification will be generated when the service is restarted

Objects: **starServiceVpnName**
starServiceServName

Object:

starHAUnreachable

Object ID: enterprises.8164.2.146

Description: A monitored HA is unreachable from the identified FA Service. Condition Clear Alarm: A starHAReachable notification will be generated when the HA becomes reachable

Objects: **starServiceVPNName**
starServiceServName
starServiceFAIpAddr
starServiceHAIpAddr

Object: **starHAReachable**

Object ID: enterprises.8164.2.147

Description: A monitored HA is now reachable. A starHAReachable notification is only generated for monitored HA's which previously were marked unreachable.

Objects: **starServiceVPNName**
starServiceServName
starServiceFAIpAddr
starServiceHAIpAddr

Object: **starASNGWServiceStart**

Object ID: enterprises.8164.2.148

Description: A WiMAX ASN Gateway (ASNGW) Service has started. **Action to be Taken:** No action required.

Objects: **starServiceVpnName**
starServiceServName

Object: **starASNGWServiceStop**

Object ID: enterprises.8164.2.149

Description: A WiMAX ASN Gateway (ASNGW) Service has stopped. **Probable Cause:** This is typically caused by operator intervention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration. **Action to be Taken:** If the ASNGW service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure. **Clear Condition:** Verify that the ASNGW service is operational. **Condition Clear Alarm:**A starASNGWServiceStart notification will be generated when the service is restarted.

Objects:

starServiceVpnName
starServiceServName

Object: **starTaskFailed**

Object ID: enterprises.8164.2.150

Description: A non-critical task has failed and the appropriate recovery steps begun. The failing task will be restarted. **Probable Cause:**Software error. Actions to be Taken: Examine the admin logs for an indication of the source of the failure. **Clear Condition:** Verify that the task has been restarted. Condition Clear Alarm: A starTaskRestart notification will be generated when task has successfully restarted.

Objects: **starTaskFacilityName**
starTaskInstance
starTaskCard
starTaskCPU

Object: **starTaskRestart**

Object ID: enterprises.8164.2.151

Description: A non-critical task has restarted after an earlier failure. Actions to be Taken: None.

Objects: **starTaskFacilityName**
starTaskInstance
starTaskCard
starTaskCPU

Object: **starCSCFServiceStart**

Object ID: enterprises.8164.2.152

Description: A CSCF Service has started **Action to be Taken:** No action required.

Objects: **starServiceVpnName**
starServiceServName

Object: **starCSCFServiceStop**

Object ID: enterprises.8164.2.153

Description: A CSCF Service has stopped. **Probable Cause:** This is typically caused by operator intervention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration. Action to be Taken: If the CSCF service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure. **Clear Condition:** Verify that the

CSCF service is operational. **Condition Clear Alarm:** A starCSCFServiceStart notification will be generated when the service is restarted.

Objects: **starServiceVpnName**
starServiceServName

Object: **starDhcpServiceStarted**

Object ID: enterprises.8164.2.154

Description: A DHCP Service has started. **Action to be Taken:** No action required.

Objects: **starSessGGSNVpnName**
starSessGGSNPeerPort
starSessGGSNPeerAddr

Object: **starDhcpServiceStopped**

Object ID: enterprises.8164.2.155

Description: A DHCP Service has stopped. **Probable Cause:** This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration. Action to be Taken: If the DHCP service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure. **Clear Condition:** Verify that the DHCP service is operational. **Condition Clear Alarm:** A starDHCPServiceStart notification will be generated when the service is restarted.

Objects: **starSessGGSNVpnName**
starSessGGSNPeerPort
starSessGGSNPeerAddr

Object: **starContFiltDBError**

Object ID: enterprises.8164.2.156

Description: The Content Filtering OPTCMDB file error displayed with an error code. Action to be Taken: If no OPTCMDB file is there in the specified directory then Place a OPTCMDB-FULL file in the directory and give an upgrade command. If the error is related to merge/loading failure then give an upgrade command with a new inc/full database file. **Condition Clear Alarm:** This condition is cleared by a **starContFiltDBErrorClear** notification.

Objects: **starContFiltCFFilename**
starContFiltCFErrorCode

Object: **starContFiltDBErrorClear**

Object ID:

enterprises.8164.2.157

Description: The Content Filtering OPTCMDB file error removed. **Action to be Taken:** No action required.

Objects: **starContFiltCFFilename**
starContFiltCFErrorCode

Object: **starBLDBError**

Object ID: enterprises.8164.2.158

Description: The Blacklisting OPTBLDB file error displayed with an error code. **Action to be Taken:** If no or invalid OPTBLDB file is there in the specified directory then Place a OPTBLDB_FULL file in the directory and give an upgrade command. **Condition Clear Alarm: This condition is cleared by a starBLDBErrorClear notification**

Objects: **starBLFilename**
starBLErrorCode

Object: **starBLDBErrorClear**

Object ID: enterprises.8164.2.159

Description: The Blacklisting OPTBLDB file error removed

Objects: **starBLFilename**
starBLErrorCode

Object: **starContFiltDBUpgradeError**

Object ID: enterprises.8164.2.160

Description: The Content Filtering OPTCMDB file error displayed with an error code **Action to be Taken:Condition Clear Alarm:** This condition is cleared by a starContFiltDBUpgradeErrorClear notification

Objects: **starContFiltCFUpgradeFilename**
starContFiltCFUpgradeErrorCode

Object: **starContFiltDBUpgradeErrorClear**

Object ID: enterprises.8164.2.161

Description: The Content Filtering OPTCMDB file error removed**Action to be Taken:** No action required.

Objects: **starContFiltCFUpgradeFilename**

starContFiltCFUpgradeErrorCode

Object: **starBLDBUpgradeError**

Object ID: enterprises.8164.2.162

Description: The Blacklisting OPTBLDB file error displayed with an error code**Action to be Taken: No action required Condition Cleaar Alarm:** This condition is cleared by a starBLDBUpgradeErrorClear

Objects: **starBLUpgradeFilename**
starBLUpgradeErrorCode

Object: **starBLDBUpgradeErrorClear**

Object ID: enterprises.8164.2.163

Description: The Blacklisting OPTBLDB file error removed**Action to be Taken: No action required**

Objects: **starBLUpgradeFilename**
starBLUpgradeErrorCode

Object: **starIPSECDynTunUp**

Object ID: enterprises.8164.2.164

Description: IPSEC Dynamic Tunnel Up. **Action to be Taken:** No action required.

Objects: **starIPSECContextName**
starIPSECPolicyName
starIPSECDynPolicyType
starIPSECPolicyPayloadType
starIPSECLocalGateway
starIPSECRemoteGateway

Object: **starIPSECDynTunDown**

Object ID: enterprises.8164.2.165

Description: IPSEC Dynamic Tunnel Down.

Objects: **starIPSECContextName**
starIPSECPolicyName
starIPSECDynPolicyType
starIPSECDynPolicyPayloadType
starIPSECLocalGateway
starIPSECRemoteGateway

Object:

starHeartbeat

Object ID: enterprises.8164.2.166

Description: Periodic SNMP heartbeat. A starHeartbeat notification can be generated periodically if the system is configured to do so. These notifications serve only to validate that there is communication to external entities which sink SNMP notifications

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Object: **starOverloadSystem**

Object ID: enterprises.8164.2.167

Description: A system-wide congestion overload condition has occurred. **Probable Cause:** This is the result of an operator-configured congestion overload value reached. This notification indicated a chassis-wide overload condition, typically overall system usage reaching some fraction of capacity. Once this limit is reached, the configured behavior is taken. This will cause certain older and/or dormant calls to be dropped in favor of newer calls. Note that this is similar to, but different than, the starCongestion notification. Typically the 'overload' condition will be configured to trigger at an earlier point. Actions to be Taken: Verify that the congestion overload thresholds are correct; if the congested state is seem repeatedly, or for sustained periods of time, additional system capacity may need to be brought online. **Clear Condition:** This system is cleared when the use of the specific resource falls below the configured limit. Condition Clear Alarm: A starOverloadSystemClear notification is sent when the system overload condition is clear

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Objects: **starCongestionResourceType**

Object: **starOverloadSystemClear**

Object ID: enterprises.8164.2.168

Description: A system-wide congestion overload condition has cleared

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Object: **starOverloadService**

Object ID: enterprises.8164.2.169

Description: A service-specific congestion overload condition has occurred. Probable Cause: This is the result of an operator-configured congestion overload value reached. This notification indicated a service-specific overload condition, typically the use of the service reaching some fraction of capacity. Once this limit is reached, the configured behavior is taken. This will cause certain older and/or dormant calls to be dropped in favor of newer calls. Note that this is similar to, but different than, the starCongestion notification. Typically the 'overload' condition will be configured to trigger at an earlier point. Since this is a service-specific notification, it is possible to receive multiple notifications for different services. Each **Action to be Taken:**Verify that the congestion overload thresholds are correct; if the congested state is seem repeatedly, or for sustained periods of time, additional system capacity may need to be brought online.**Clear Condition:** This system is cleared when the use of the specific resource

falls below the configured limit.**Condition Clear Alarm:** A starOverloadServiceClear notification is sent when the service-specific overload condition is clear.

Objects:	**starCongestionResourceType** **starServiceVpnName** **starServiceServName**

Object:	**starOverloadServiceClear**
Object ID:	enterprises.8164.2.170
Description:	A service-specific congestion overload condition has cleared

Objects:	**starServiceVpnName** **starServiceServName**

Object:	**starStorageServerClusterStateChange**
Object ID:	enterprises.8164.2.171
Description:	GTPP Storage Server cluster state has been changed. GTPP Storage Server may have gone offline from all the nodes or switchover has been occurred. ***IMPORTANT:*** Note that this is an external server, not part of the ST16/ASR 5000-series hardware.
Description:	**Probable Cause:** GTPP Storage Server cluster hardware/software component failure or maintenance of GTPP Storage Server is in progress.

Objects:	**starSessGGSNVpnName** **starSessGGSNPeerAddr** **starGSSClusterName** **starGSSClusterRgName** **starGSSClusterRsName** **starGSSClusterNodeState** **starGSSClusterPrevOnlineNode**

Object:	**starStorageServerCluswitchOver**
Object ID:	enterprises.8164.2.172
Description:	GTPP Storage Server switchover from current online node to next available node in cluster. ***IMPORTANT:*** Note that this is an external server, not part of the ST16/ASR 5000-series hardware.

Description: **Probable Cause:** GTPP storage server cluster hardware/software component failure or maintenance of GTPP storage server is in progress.

Objects:
starSessGGSNVpnName
starSessGGSNPeerAddr
starGSSClusterName
starGSSClusterRgName
starGSSClusterFromNode
starGSSClusterToNode

Object: **starStorageServerClusPathFail**

Object ID: enterprises.8164.2.173

Description: GTPP Storage Server cluster disk path failure has been occurred.

IMPORTANT: Note that this is an external server, not part of the ST16/ASR 5000-series hardware.

Description: **Probable Cause:** Fibre cable may have been damaged, fibre cable may have been pulled out or disk fault may have been occurred.**Condition Clear Alarm:** This condition is cleared by a starStorageServerClusPathOK notification.

Objects:
starSessGGSNVpnName
starSessGGSNPeerAddr
starGSSDiskPath
starGSSClusterName
starGSSClusterNodeName

Object: **starStorageServerClusPathOK**

Object ID: enterprises.8164.2.174

Description: GTPP Storage Server cluster disk path failure has been restored to ok state.

IMPORTANT: Note that this is an external server, not part of the ST16/ASR 5000-series hardware.

Objects:
starSessGGSNVpnName
starSessGGSNPeerAddr
starGSSDiskPath
starGSSClusterName
starGSSClusterNodeName

Object: **starStorageServerClusInterCFail**

Object ID:

enterprises.8164.2.175

Description: GTPP Storage Server cluster transport path (Interconnect) failure has been occurred.


IMPORTANT: Note that this is an external server, not part of the ST16/ASR 5000-series hardware.

Description: **Probable Cause:** Interconnect interface may have been failed, Interconnect interface cable may have been pulled out. **Condition Clear Alarm:**This condition is cleared by a starStorageServerClusInterCOK notification.

Objects: **starSessGGSNVpnName**
starSessGGSNPeerAddr
starGSSTransportPath
starGSSClusterName
starGSSClusterNodeName

Object: **starStorageServerClusInterCOK**

Object ID: enterprises.8164.2.176

Description: GTPP Storage Server cluster transport path (Interconnect) failure has been restored to an operational state.


IMPORTANT: Note that this is an external server, not part of the ST16/ASR 5000-series hardware.

Objects: **starSessGGSNVpnName**
starSessGGSNPeerAddr
starGSSTransportPath
starGSSClusterName
starGSSClusterNodeName

Object: **starStorageServerClusIntfFail**

Object ID: enterprises.8164.2.177

Description: GTPP Storage Server cluster disk path failure has been occurred.


IMPORTANT: Note that this is an external server, not part of the ST16/ASR 5000-series hardware

Description: **Probable Cause:** Interface may have been failed, interface cable may have been pulled out. **Condition Clear Alarm:** This condition is cleared by a starStorageServerClusIntfOK notification.

Objects:	**starSessGGSNVpnName** **starSessGGSNPeerAddr** **starGSSIPMPGroupName** **starGSSInterfaceName** **starGSSClusterName** **starGSSClusterNodeName**

Object:	**starStorageServerClusIntfOK**
Object ID:	enterprises.8164.2.178
Description:	GTPP Storage Server cluster GE Interface failure has been restored to ok state.

Objects:	**starSessGGSNVpnName** **starSessGGSNPeerAddr** **starGSSIPMPGroupName** **starGSSInterfaceName** **starGSSClusterName** **starGSSClusterNodeName**

Object:	**starStorageServerMemLow**
Object ID:	enterprises.8164.2.179
Description:	GTPP Storage Server is experiencing a low memory condition.
Description:	**Probable Cause:** The amount of free memory used by Storage Server is approaching the server's capacity. **Condition Clear Alarm:**This condition is cleared by a starStorageServerMemNormal notification.

Objects:	**starSessGGSNVpnName** **starSessGGSNPeerAddr** **starThreshMB** **starThreshMeasuredMB** **starGSSClusterName** **starGSSClusterNodeName**

Object:	**starStorageServerMemNormal**
Object ID:	enterprises.8164.2.180
Description:	GTPP Storage Server Memory usage has returned to a normal range.

IMPORTANT: Note that this is an external server, not part of the ST16.

Objects:	**starSessGGSNVpnName** **starSessGGSNPeerAddr**

starThreshMB
starThreshMeasuredMB
starGSSClusterName
starGSSClusterNodeName

Object: **starPDIFServiceStart**

Object ID: enterprises.8164.2.181

Description: A PDIF Service has started. **Action to be Taken:** No action required

Objects: **starServiceVpnName**
starServiceServName

Object: **starPDIFServiceStop**

Object ID: enterprises.8164.2.182

Description: A PDIF Service has stopped. **Probable Cause:** This is typically caused by operator invention. In rare cases it can be caused by the loss of resources (PACs) to support the running configuration. **Action to be Taken:** If the PDIF service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs are present and running in the system. Check the crash logs for an indication of a software failure.**Clear Condition:** Verify that the PDIF service is operational. **Condition Clear Alarm:** A starPDIFServiceStart notification will be generated when the service is restarted.

Objects: **starServiceVpnName**
starServiceServName

Object: **-starSessMgrRecoveryComplete**

Object ID: enterprises.8164.2.183

Description: The overall CPU utilization for the identified processor has exceeded for configured threshold value for the current monitoring period. Probable Cause: This is typically caused by session manager task fails and successfully completed recovery. **Action to be Taken:** None.

Objects: **starCPUSlot**
starCPUNumber

Object: **starDiameterPeerDown**

Object ID: enterprises.8164.2.184

Description: A diameter peer is down. Problem Cause: The diameter peer has failed, or a network connectivity prevents reaching the peer.**Condition Clear Alarm:** A starDiameterPeerUp notification will be generated when the peer is up.

Objects:	**starDiameterVpnName** **starDiameterPeerAddr** **starDiameterEndpointName**

Object:	**starDiameterPeerUp**
Object ID:	enterprises.8164.2.185
Description:	A diameter peer is up. This notification is only generated for peers which have previously been declared down.

Objects:	**starDiameterVpnName** **starDiameterPeerAddr** **starDiameterEndpointName**

Object:	**starDiameterServerUnreachable**
Object ID:	enterprises.8164.2.186
Description:	A diameter server is down. Problem Cause: The diameter server has failed, or a network connectivity prevents reaching the server.**Condition Clear Alarm:** A starDiameterServerReachable notification will be generated when the server is reachable.

Objects:	**starServiceVpnName** **starDiameterPeerAddr** **starDiameterEndpointName**

Object:	**starDiameterServerReachable**
Object ID:	enterprises.8164.2.187
Description:	A diameter server is up. This notification is only generated for servers which have previously been declared unreachable.

Objects:	**starServiceVpnName** **starDiameterPeerAddr** **starDiameterEndpointName**

Object:	**starCDRFileRemoved**
Object ID:	enterprises.8164.2.188
Description:	A Charging Data Record (CDR) file has been deleted from the system due to a lack of available storage space. When required, the system deletes old files to make space for new files. This notification is only generated when specifically enabled on the system. **Probable Cause:**CDR files are not being moved off the system, or these files are not being deleted after they have been transferred.

Objects:	**starCDRFilename**

Object:	**starCSCFPeerServerReachable**
Object ID:	enterprises.8164.2.189
Description:	A peer server is reachable

Objects:	**starServiceVPNName** **starServiceServName** **starServicePeerServerName**

Object:	**starCSCFPeerServerUnreachable**
Object ID:	enterprises.8164.2.190
Description:	A peer server is reachable

Objects:	**starServiceVPNName** **starServiceServName** **starServicePeerServerName**

Object:	**starCLIConfigMode**
Object ID:	enterprises.8164.2.192
Description:	An interactive CLI session has an “enter configuration” mode for the specified context. Thus the CLI user can potentially start entering configuration commands that could impact the entire system. Note that this notification is not enabled by default; it is only generated if the system is specifically configured to enable it.

Objects:	**starCLIUsername** **starCLIContext**

Object:	**starSGSNServiceStart**
Object ID:	enterprises.8164.2.194
Description:	A SGSN Service has started.

Objects:	**starServiceVpnName** **starServiceServName**

Object:	**starSGSNServiceStop**
Object ID:	enterprises.8164.2.195
Description:	

A SGSN Service has stopped. **Probable Cause**: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration. **Action to be Taken:** If the SGSN service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure. **Clear Condition:** Verify that the SGSN service is operational. **Condition Clear Alarm:** A starSGSNServiceStart notification will be generated when the service is restarted.

Objects: **starServiceVpnName,**
starServiceServName

Object: **starM3UAPCUnavailable**

Object ID: enterprises.8164.2.196

Description: M3UA route to the Point code becomes unavailable. Probable Cause: Received destination unavailable (DUNA) message SCTP association is down Remote peer server is down. **Action to be taken:** Verify that the peer server is UP.

Objects: **starSS7rdId**
starSS7Pc
starSS7M3UAPsId

Object: **starM3UAPCAvailable**

Object ID: enterprises.8164.2.197

Description: M3UA route to the Point code becomes available. Probable Cause: Received destination available (DAVA) message. SCTP Association is up. Remote peer server is up. **Condition Clear Alarm:** A starM3UAPCAvailable message is generated only after a starM3UAPCUnavailable message was generated.

Objects: **starSS7M3UAPsId**
starSS7Pc
starSS7rdId

Object: **starDynPkgLoadError**

Object ID: enterprises.8164.2.1103

Description: The Dynamic rater package error displayed with an error code. Condition Clear Alarm: This condition is cleared by a starDynPkgLoadErrorClear notification

Objects: **starDynPkgFilename**
starDynCFErrorCode

Object: **starDynPkgLoadErrorClear**

Object ID:

enterprises.8164.2.1104

Description: The Dynamic rater package error removed.

Objects: **starDynPkgFilename**
starDynCFErrorCode

Object: **starDynPkgUpgradeError**

Object ID: enterprises.8164.2.1105

Description: The Dynamic rater package error displayed with an error code. This condition is cleared by a starDynPkgUpgradeErrorClear . The Dynamic rater package error displayed with an error code.

Objects: **starDynPkgUpgradeFilename**
starDynCFUpgradeErrorCode

Object: **starDynPkgUpgradeErrorClear**

Object ID: enterprises.8164.2.1106

Description: The Dynamic Rater package error removed.

Objects: **starDynPkgUpgradeFilename**
starDynCFUpgradeErrorCode

Object: **starCSCFPeerServerUnavailable**

Object ID: enterprises.8164.2.1107

Description: Peer server is unavailable

Objects: **starCSCFPeerServerVpnName**
starCSCFPeerServerSvcName
starCSCFPeerServerName

Object: **starCSCFPeerServerOutofService**

Object ID: enterprises.8164.2.1108

Description: Peer server is out-of-service

Objects: **starCSCFPeerServerVpnName**
starCSCFPeerServerSvcName
starCSCFPeerServerName

Object: **starCSCFPeerServerInService**

Object ID: enterprises.8164.2.1109

Description: Peer server unavailable and/or out of service condition cleared.

Objects: **starCSCFPeerServerVpnName**
starCSCFPeerServerSvcName
starCSCFPeerServerName

Object: **starThreshCPUUtilization**

Object ID: enterprises.8164.2.200

Description: The overall CPU utilization for the identified processor has exceeded for configured threshold value for the current monitoring period. Probable Cause: This is a user configurable threshold. **Condition Clear Alarm:** If the thresholding subsystem is configured to run in alarm mode, a starThreshClearCPUUtilization notification will be generated when the measured value falls below the threshold.

Objects: **starCPUSlot**
starCPUNumber
starThreshPct
starThreshMeasuredPct

Object: **starThreshClearCPUUtilization**

Object ID: enterprises.8164.2.201

Description: The threshold condition is now clear.

Objects: **starCPUSlot**
starCPUNumber
starThreshPct
starThreshMeasuredPct

Object: **starThreshCPUMemory**

Object ID: enterprises.8164.2.202

Description: The amount of available memory for the identified processor has fallen below the configured threshold value. **Probable Cause:** This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearCPUMemory notification will be generated when the measured value falls below the threshold.

Objects: **starCPUSlot**
starCPUNumber
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearCPUMemory**

Object ID: enterprises.8164.2.203

Description: The threshold condition is now clear.

Objects: **starCPUSlot**
starCPUNumber
starThreshInt
starThreshMeasuredInt

Object: **starThreshLicense**

Object ID: enterprises.8164.2.204

Description: The percentage available, licensed subscribers has fallen below the configured threshold value. **Probable Cause:**This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearLicense notification will be generated when the measured value falls below the threshold.

Objects: **starThreshPct**
starThreshMeasuredPct
starServiceType

Object: **starThreshClearLicense**

Object ID: enterprises.8164.2.205

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt
starServiceType

Object: **starThreshSubscriberTotal**

Object ID: enterprises.8164.2.206

Description: The total number of subscribers is above the configured threshold value. **Probable Cause:** This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearSubscriberTotal notification will be generated when the measured value falls below the threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object:

starThreshClearSubscriberTotal

Object ID: enterprises.8164.2.207

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshSubscriberActive**

Object ID: enterprises.8164.2.208

Description: The total number of active subscribers is above the configured threshold value. **Probable Cause:** This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearSubscriberActive notification will be generated when the measured value falls below the threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearSubscriberActive**

Object ID: enterprises.8164.2.209

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshPortRxUtil**

Object ID: enterprises.8164.2.210

Description: The Rx utilization of the port has exceeded the configured threshold value during the current monitoring period. **Probable Cause:**This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearPortRxUtil notification will be generated when the measured value falls below the threshold.

Objects: **starPortSlot**
starPortNum
starThreshPct
starThreshMeasuredPct

Object: **starThreshClearPortRxUtil**

Object ID: enterprises.8164.2.211

Description: The threshold condition is now clear.

Objects: **starPortSlot**
starPortNum
starThreshPct
starThreshMeasuredPct

Object: **starThreshPortTxUtil**

Object ID: enterprises.8164.2.212

Description: The Tx utilization of the port has exceeded the configured threshold value during the current monitoring period. **Probable Cause:**This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearPortTxUtil notification will be generated when the measured value falls below the threshold.

Objects: **starPortSlot**
starPortNum
starThreshPct
starThreshMeasuredPct

Object: **starThreshClearPortTxUtil**

Object ID: enterprises.8164.2.213

Description: The threshold condition is now clear.

Objects: **starPortSlot**
starPortNum
starThreshPct
starThreshMeasuredPct

Object: **starThreshPortHighActivity**

Object ID: enterprises.8164.2.214

Description: The number of seconds of 'high activity' time on the port has exceeded the configured threshold value during the current monitoring period. Probable Cause: This is a user configurable threshold. **Condition Clear Alarm:** If the thresholding subsystem is configured to run in alarm mode, a starThreshClearPortHighActivity notification is generated when the measured value falls below the threshold.

Objects: **starPortSlot**
starPortNum
starThreshInt
starThreshMeasuredInt

Object:

starThreshClearPortHighActivity

Object ID: enterprises.8164.2.215

Description: The threshold condition is now clear.

Objects: **starPortSlot**
starPortNum
starThreshInt
starThreshMeasuredInt

Object: **starThreshAAAAuthFail**

Object ID: enterprises.8164.2.216

Description: The number of AAA authentication failures has exceeded the configured threshold during the current monitoring period. **Probable Cause:** This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearAAAAuthFail notification will be generated when the measured value falls below the threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearAAAAuthFail**

Object ID: enterprises.8164.2.217

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshAAAAuthFailRate**

Object ID: enterprises.8164.2.218

Description: The percentage of AAA authentication requests which failed has exceeded the configured threshold during the current monitoring period. **Probable Cause:** This is a user configurable threshold. **Condition Clear Alarm:** If the thresholding subsystem is configured to run in alarm mode, a starThreshClearAAAAuthFailRate notification will be generated when the measured value falls below the threshold.

Objects: **starThreshPct**
starThreshMeasuredPct

Object: **starThreshClearAAAAuthFailRate**

Object ID: enterprises.8164.2.219

Description: The threshold condition is now clear.

Objects: **starThreshPct**
starThreshMeasuredPct

Object: **starThreshAAAAcctFail**

Object ID: enterprises.8164.2.220

Description: The number of AAA accounting failures has exceeded the configured threshold during the current monitoring period. **Probable Cause:** This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearAAAAcctFail notification will be generated when the measured value falls below the threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearAAAAcctFail**

Object ID: enterprises.8164.2.221

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshAAAAcctFailRate**

Object ID: enterprises.8164.2.222

Description: The percentage of AAA accounting requests which failed has exceeded the configured threshold during the current monitoring period.**Probable Cause:** This is a user configurable threshold. **Condition Clear Alarm:** If the thresholding subsystem is configured to run in alarm mode, a starThreshClearAAAAcctFailRate notification will be generated when the measured value falls below the threshold.

Objects: **starThreshPct**
starThreshMeasuredPct

Object: **starThreshClearAAAAcctFailRate**

Object ID: enterprises.8164.2.223

Description: The threshold condition is now clear.

Objects: **starThreshPct**
starThreshMeasuredPct

Object: **starThreshAAARetryRate**

Object ID: enterprises.8164.2.224

Description: The percentage of AAA requests which has to be retried has exceeded the configured threshold during the current monitoring period.**Probable Cause:** This is a user configurable threshold. **Condition Clear Alarm:** If the thresholding subsystem is configured to run in alarm mode, a starThreshClearAAARetryRate notification will be generated when the measured value falls below the threshold.

Objects: **starThreshPct**
starThreshMeasuredPct

Object: **starThreshClearAAARetryRate**

Object ID: enterprises.8164.2.225

Description: The threshold condition is now clear.

Objects: **starThreshPct**
starThreshMeasuredPct

Object: **starThreshCallSetup**

Object ID: enterprises.8164.2.226

Description: The number of call setup operations has exceeded the configured threshold during the current monitoring period. **Probable Cause:**This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearCallSetup notification will be generated when the measured value falls below the threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearCallSetup**

Object ID: enterprises.8164.2.227

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshCallSetupFailure**

Object ID: enterprises.8164.2.228

Description:

The number of call setup operations which failed has exceeded the configured threshold during the current monitoring period.**Probable Cause:** This is a user configurable threshold. **Condition Clear Alarm:** If the thresholding subsystem is configured to run in alarm mode, a starThreshClearCallSetupFailure notification will be generated when the measured value falls below the threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearCallSetupFailure**

Object ID: enterprises.8164.2.229

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshCallRejectNoResource**

Object ID: enterprises.8164.2.230

Description: The number of call setup operations which were rejected due to a no resource condition has exceeded the configured threshold during the current monitoring period. Probable Cause: This is a user configurable threshold. **Condition Clear Alarm:** If the thresholding subsystem is configured to run in alarm mode, a starThreshClearCallRejectNoResource notification will be generated when the measured value falls below the threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearCallRejectNoResource**

Object ID: enterprises.8164.2.231

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshPacketsFilteredDropped**

Object ID: enterprises.8164.2.232

Description: The number of user data packets filtered has exceeded the configured threshold for the current monitoring period. Probable Cause: This is a user configurable threshold.**Condition Clear Alarm:** If the thresholding subsystem is configured to run

in an alarm mode, a starThreshClearPacketsFilteredDropped notification will be generated when the measured value falls below the threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearPacketsFilteredDropped**

Object ID: enterprises.8164.2.233

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshPacketsForwarded**

Object ID: enterprises.8164.2.234

Description: The number of user data packets forwarded has exceeded the configured threshold for the current monitoring period. Probable Cause: This is a user configurable threshold.**Condition Clear Alarm:** If the thresholding subsystem is configured to run in alarm mode, a starThreshClearPacketsForwarded notification will be generated when the measured value falls below the threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearPacketsForwarded**

Object ID: enterprises.8164.2.235

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshSessCPUThroughput**

Object ID: enterprises.8164.2.236

Description: The total session throughout for the specified processor has exceeded the configured threshold for the current monitoring period. Probable Cause: This is a user configurable threshold.**Condition Clear Alarm:** If the thresholding subsystem is configured to run in alarm mode, a starThreshClearSessCPUThroughput notification will be generated when the measured value falls below the threshold.

Objects: **starCPUSlot**

starCPUNumber
starThreshMB
starThreshMeasuredMB

Object: **starThreshClearSessCPUThroughput**

Object ID: enterprises.8164.2.237

Description: The threshold condition is now clear.

Objects: **starCPUSlot**
starCPUNumber
starThreshMB
starThreshMeasuredMB

Object: **starThreshIPPoolAvail**

Object ID: enterprises.8164.2.238

Description: The available IP pool addresses in a context has fallen below the configured threshold. **Probable Cause:** This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearIPPoolAvail notification will be generated when the measured value falls below the threshold.

Objects: **starIPPoolContext**
starIPPoolGroup
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearIPPoolAvail**

Object ID: enterprises.8164.2.239

Description: The threshold condition is now clear.

Objects: **starIPPoolContext**
starIPPoolGroup
starThreshInt
starThreshMeasuredInt

Object: **starThreshCPUUtilization10Sec**

Object ID: enterprises.8164.2.240

Description: The CPU utilization of 10 second measurement for the identified processor has exceeded for configured threshold value for the current monitoring period.

Objects: **starCPUSlot**

starCPUNumber
starThreshPct
starThreshMeasuredPct

Object: **starThreshClearCPUUtilization10Sec**

Object ID: enterprises.8164.2.241

Description: The threshold condition is now clear.

Objects: **starCPUSlot**
starCPUNumber
starThreshPct
starThreshMeasuredPct

Object: **starThreshCPULoad**

Object ID: enterprises.8164.2.242

Description: The CPU load for the identified processor has exceeded for configured threshold value for the current monitoring period.

Objects: **starCPUSlot**
starCPUNumber
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearCPULoad**

Object ID: enterprises.8164.2.243

Description: The threshold condition is now clear.

Objects: **starCPUSlot**
starCPUNumber
starThreshInt
starThreshMeasuredInt

Object: **starThreshCPUMemUsage**

Object ID: enterprises.8164.2.244

Description: The CPU mem usage for the identified processor has exceeded for configured threshold value for the current monitoring period.

Objects: **starCPUSlot**
starCPUNumber
starThreshPct
starThreshMeasuredPct

Object:	**starThreshClearCPUMemUsage**
Object ID:	enterprises.8164.2.245
Description:	The threshold condition is now clear.
Objects:	**starCPUSlot** **starCPUNumber** **starThreshPct** **starThreshMeasuredPct**
Object:	**starThreshPDSNSessions**
Object ID:	enterprises.8164.2.246
Description:	The total number of PDSN sessions is above the configured threshold value.
Objects:	**starThreshInt** **starThreshMeasuredInt**
Object:	**starThreshClearPDSNSessions**
Object ID:	enterprises.8164.2.247
Description:	The threshold condition is now clear.
Objects:	**starThreshInt** **starThreshMeasuredInt**
Object:	**starThreshGGSNSessions**
Object ID:	enterprises.8164.2.248
Description:	The total number of GGSN sessions is above the configured threshold value.
Objects:	**starThreshInt** **starThreshMeasuredInt**
Object:	**starThreshClearGGSNSessions**
Object ID:	enterprises.8164.2.249
Description:	The threshold condition is now clear.
Objects:	**starThreshInt** **starThreshMeasuredInt**
Object:	

starThreshHASessions

Object ID: enterprises.8164.2.250

Description: The total number of HA sessions is above the configured threshold value.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearHASessions**

Object ID: enterprises.8164.2.251

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshLNSSessions**

Object ID: enterprises.8164.2.252

Description: The total number of L2TP LNS sessions is above the configured threshold value.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearLNSSessions**

Object ID: enterprises.8164.2.253

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshPerServicePDSNSessions**

Object ID: enterprises.8164.2.254

Description: The total number of PDSN sessions in a service is above the configured threshold value.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object:

starThreshClearPerServicePDSNSessions

Object ID: enterprises.8164.2.255

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshPerServiceGGSNSessions**

Object ID: enterprises.8164.2.256

Description: The total number of GGSN sessions in a service is above the configured threshold value.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearPerServiceGGSNSessions**

Object ID: enterprises.8164.2.257

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshPerServiceHASessions**

Object ID: enterprises.8164.2.258

Description: The total number of HA sessions in a service is above the configured threshold value.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearPerServiceHASessions**

Object ID: enterprises.8164.2.259

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshPerServiceLNSSessions**

Object ID: enterprises.8164.2.260

Description: The total number of L2TP LNS sessions in a service is above the configured threshold value.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearPerServiceLNSSessions**

Object ID: enterprises.8164.2.261

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshIPPoolHold**

Object ID: enterprises.8164.2.262

Description: The percentage IP pool addresses in HOLD state in a context has gone above the configured threshold.

Objects: **starIPPoolContext**
starIPPoolName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearIPPoolHold**

Object ID: enterprises.8164.2.263

Description: The threshold condition is now clear.

Objects: **starIPPoolContext**
starIPPoolName
starThreshInt
starThreshMeasuredInt

Object: **starThreshIPPoolUsed**

Object ID: enterprises.8164.2.264

Description: The percentage IP pool addresses in USED state in a context has gone above the configured threshold.

Objects: **starIPPoolContext**
starIPPoolName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearIPPoolUsed**

Object ID: enterprises.8164.2.265

Description: The threshold condition is now clear.

Objects: **starIPPoolContext**
starIPPoolName
starThreshInt
starThreshMeasuredInt

Object: **starThreshIPPoolRelease**

Object ID: enterprises.8164.2.266

Description: The percentage IP pool addresses in RELEASE state in a context has gone above the configured threshold.

Objects: **starIPPoolContext**
starIPPoolName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearIPPoolRelease**

Object ID: enterprises.8164.2.267

Description: The threshold condition is now clear.

Objects: **starIPPoolContext**
starIPPoolName

starThreshInt
starThreshMeasuredInt

Object: **starThreshIPPoolFree**

Object ID: enterprises.8164.2.268

Description: The percentage IP pool addresses in HOLD state in a context has gone below the configured threshold.

Objects: **starIPPoolContext**
starIPPoolName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearIPPoolFree**

Object ID: enterprises.8164.2.269

Description: The threshold condition is now clear.

Objects: **starIPPoolContext**
starIPPoolName
starThreshInt
starThreshMeasuredInt

Object: **starThreshAAAAcctArchive**

Object ID: enterprises.8164.2.270

Description: The AAA accounting archive size has gone above the configured threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearAAAAcctArchive**

Object ID: enterprises.8164.2.271

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshPortSpecRxUtil**

Object ID: enterprises.8164.2.272

Description:

The Rx utilization of the port has exceeded the configured threshold value during the current monitoring period. **Probable Cause:**This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearPortSpecRxUtil notification will be generated when the measured value falls below the threshold.

Objects: **starPortSlot**
starPortNum
starThreshPct
starThreshMeasuredPct

Object: **starThreshClearPortSpecRxUtil**

Object ID: enterprises.8164.2.273

Description: The threshold condition is now clear.

Objects: **starPortSlot**
starPortNum
starThreshPct
starThreshMeasuredPct

Object: **starThreshPortSpecTxUtil**

Object ID: enterprises.8164.2.274

Description: The Tx utilization of the port has exceeded the configured threshold value during the current monitoring period. **Probable Cause:**This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearPortSpecTxUtil notification will be generated when the measured value falls below the threshold.

Objects: **starPortSlot**
starPortNum
starThreshPct
starThreshMeasuredPct

Object: **starThreshClearPortSpecTxUtil**

Object ID: enterprises.8164.2.275

Description: The threshold condition is now clear.

Objects: **starPortSlot**
starPortNum
starThreshPct
starThreshMeasuredPct

Object: **starThreshHACallSetupRate**

Object ID: enterprises.8164.2.276

Description: The per-context HA call setup rate (calls per second) has gone above the configured threshold **Probable Cause:** This is a user configurable threshold. If the thresholding subsystem is configured to run in 'alarm' mode, a starThreshClearHACallSetupRate notification will be generated when the measured value falls below the threshold.

Objects: **starServiceVpnName**
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearHACallSetupRate**

Object ID: enterprises.8164.2.277

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starThreshInt
starThreshMeasuredInt

Object: **starThreshHASvcCallSetupRate**

Object ID: enterprises.8164.2.278

Description: The per-service HA Call setup rate (calls per second) has gone above the configured threshold **Probable Cause:** This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearHASvcCallSetupRate notification will be generated when the measured value falls below the threshold.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearHASvcCallSetupRate**

Object ID: enterprises.8164.2.279

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshHASvcRegReplyError**

Object ID: enterprises.8164.2.280

Description: The per-service HA Reg Reply Error count has gone above the configured threshold **Probable Cause:** This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearHASvcRegReplyError notification is generated when the measured value falls below the threshold.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearHASvcRegReplyError**

Object ID: enterprises.8164.2.281

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshHASvcReregReplyError**

Object ID: enterprises.8164.2.282

Description: The per-service HA Rereg Reply Error count has gone above the configured threshold **Probable Cause:** This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearHASvcReregReplyError notification is generated when the measured value falls below the threshold.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearHASvcReregReplyError**

Object ID: enterprises.8164.2.283

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt

starThreshMeasuredInt

Object: **starThreshHASvcDeregReplyError**

Object ID: enterprises.8164.2.284

Description: The per-service HA Dereg Reply Error count has gone above the configured threshold **Probable Cause:** This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearHASvcDeregReplyError notification is generated when the measured value falls below the threshold.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearHASvcDeregReplyError**

Object ID: enterprises.8164.2.285

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshFASvcRegReplyError**

Object ID: enterprises.8164.2.286

Description: The Per-Service FA Reg Reply Error count has gone above the configured threshold **Probable Cause:** This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearFASvcRegReplyError notification is generated when the measured value falls below the threshold.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearFASvcRegReplyError**

Object ID: enterprises.8164.2.287

Description: The threshold condition is now clear.

Objects:

starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshPDSNCallSetupRate**

Object ID: enterprises.8164.2.288

Description: The Per-Context PDSN Call Setup Rate (calls per second) has gone above the configured threshold **Probable Cause:** This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearPDSNCallSetupRate notification is generated when the measured value falls below the threshold.

Objects: **starServiceVpnName**
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearPDSNCallSetupRate**

Object ID: enterprises.8164.2.289

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starThreshInt
starThreshMeasuredInt

Object: **starThreshPDSNSvcCallSetupRate**

Object ID: enterprises.8164.2.290

Description: The Per-Service PDSN Call Setup Rate (calls per second) has gone above the configured threshold **Probable Cause:** This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearPDSNSvcCallSetupRate notification is generated when the measured value falls below the threshold.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearPDSNSvcCallSetupRate**

Object ID: enterprises.8164.2.291

Description: The threshold condition is now clear.

Objects:	**starServiceVpnName** **starServiceServName** **starThreshInt** **starThreshMeasuredInt**

Object:	**starThreshPDSNSvcA11RRPFailure**
Object ID:	enterprises.8164.2.292
Description:	The Per-Service PDSN A11 RRP Failure count has gone above the configured threshold **Probable Cause:** This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearPDSNSvcA11RRPFailure notification is generated when the measured value falls below the threshold.

Objects:	**starServiceVpnName** **starServiceServName** **starThreshInt** **starThreshMeasuredInt**

Object:	**starThreshClearPDSNSvcA11RRPFailure**
Object ID:	enterprises.8164.2.293
Description:	The threshold condition is now clear.

Objects:	**starServiceVpnName** **starServiceServName** **starThreshInt** **starThreshMeasuredInt**

Object:	**starThreshPDSNSvcA11RRQMsgDiscard**
Object ID:	enterprises.8164.2.294
Description:	The Per-Service PDSN A11 RRQ Msg Discard count has gone above the configured threshold **Probable Cause:** This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode a starThreshClearPDSNSvcA11RRQMsgDiscard notification is generated when the measured value falls below the threshold.

Objects:	**starServiceVpnName** **starServiceServName** **starThreshInt** **starThreshMeasuredInt**

Object:	**starThreshClearPDSNSvcA11RRQMsgDiscard**
Object ID:	enterprises.8164.2.295

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshPDSNSvcA11RACMsgDiscard**

Object ID: enterprises.8164.2.296

Description: The Per-Service PDSN A11 RAC Msg Discard count has gone above the configured threshold **Probable Cause:** This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode a starThreshClearPDSNSvcA11RACMsgDiscard notification is generated when the measured value falls below the threshold.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearPDSNSvcA11RACMsgDiscard**

Object ID: enterprises.8164.2.297

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshPDSNSvcA11PPPSendDiscard**

Object ID: enterprises.8164.2.298

Description: he Per-Service PDSN A11 PPP Send Discard count has gone above the configured threshold **Probable Cause:** This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearPDSNSvcA11PPPSendDiscard notification is generated when the measured value falls below the threshold.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object:

starThreshClearPDSNSvcA11PPPSendDiscard

Object ID: enterprises.8164.2.299

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshAAAMgrQueue**

Object ID: enterprises.8164.2.300

Description: The Per-AAA Manager internal request queue usage has gone above the configured threshold **Probable Cause:** This is a user configurable threshold. **Condition Clear Alarm:** If the thresholding subsystem is configured to run in alarm mode, a starThreshClearAAAMgrQueue is generated when the measured value falls below the threshold.

Objects: **starTaskInstance**
starThreshPct
starThreshMeasuredPct

Object: **starThreshClearAAAMgrQueue**

Object ID: enterprises.8164.2.301

Description: The threshold condition is now clear.

Objects: **starTaskInstance**
starThreshPct
starThreshMeasuredPct

Object: **starThreshCPUOrbsWarn**

Object ID: enterprises.8164.2.302

Description: The ORBs task has exceeding the CPU usage configured as a warning

Objects: **starThreshPct**
starThreshMeasuredPct

Object: **starThreshClearCPUOrbsWarn**

Object ID: enterprises.8164.2.303

Description: The threshold condition is now clear

Objects:	**starThreshPct** **starThreshMeasuredPct**

Object:	**starThreshCPUOrbsCritical**
Object ID:	enterprises.8164.2.304
Description:	The ORBs task has exceeded the CPU usage configured as a critical error

Objects:	**starThreshPct** **starThreshMeasuredPct**

Object:	**starThreshClearCPUOrbsCritical**
Object ID:	enterprises.8164.2.305
Description:	The threshold condition is now clear

Objects:	**starThreshPct** **starThreshMeasuredPct**

Object:	**starThreshRPSetupFailRate**
Object ID:	enterprises.8164.2.306
Description:	The RP call setup failure rate has exceeded the configured threshold

Objects:	**starThreshPct** **starThreshMeasuredPct**

Object:	**starThreshClearRPSetupFailRate**
Object ID:	enterprises.8164.2.307
Description:	The threshold condition is now clear

Objects:	**starThreshPct** **starThreshMeasuredPct**

Object:	**starThreshPPPSetupFailRate**
Object ID:	enterprises.8164.2.308
Description:	The PPP call setup failure rate has exceeded the configured threshold

Objects:	**starThreshPct** **starThreshMeasuredPct**

Object:	**starThreshClearPPPSetupFailRate**
Object ID:	enterprises.8164.2.309
Description:	The threshold condition is now clear
Objects:	**starThreshPct** **starThreshMeasuredPct**
Object:	**starThreshStorageUtilization**
Object ID:	enterprises.8164.2.310
Description:	The utilization of a mass storage device has exceeded the configured threshold.
Objects:	**starStorageSlot** **starStorageName** **starThreshPct** **starThreshMeasuredPct**
Object:	**starThreshClearStorageUtilization**
Object ID:	enterprises.8164.2.311
Description:	The threshold condition is now clear.
Objects:	**starStorageSlot** **starStorageName** **starThreshPct** **starThreshMeasuredPct**
Object:	**starThreshDCCAProtocolErrors**
Object ID:	enterprises.8164.2.312
Description:	The number of DCCA Protocol Errors has exceeded the configured threshold.
Objects:	**starThreshInt** **starThreshMeasuredInt**
Object:	**starThreshClearDCCAProtocolErrors**
Object ID:	enterprises.8164.2.313
Description:	The threshold condition is now clear.
Objects:	**starThreshInt**

starThreshMeasuredInt

Object: **starThreshDCCABadAnswers**

Object ID: enterprises.8164.2.314

Description: The number of DCCA BadAnswers has exceeded the configured threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearDCCABadAnswers**

Object ID: enterprises.8164.2.315

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshDCCAUnknownRatingGroup**

Object ID: enterprises.8164.2.316

Description: The number of DCCA UnknownRatingGroup has exceeded the configured threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearDCCAUnknownRatingGroup**

Object ID: enterprises.8164.2.317

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshDCCARatingFailed**

Object ID: enterprises.8164.2.318

Description: The number of DCCA RatingFailed has exceeded the configured threshold

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearDCCARatingFailed**

Object ID: enterprises.8164.2.319

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshIPSECIKERequests**

Object ID: enterprises.8164.2.320

Description: The number of IPSEC IKE requests seen for this HA service has exceeded the configured threshold. **Probable Cause:** This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in an alarm mode, a starThreshClearIPSECIKERequests notification will be generated when the measured value falls below the threshold.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearIPSECIKERequests**

Object ID: enterprises.8164.2.321

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshIPSECIKEFailures**

Object ID: enterprises.8164.2.322

Description: The number of IPSEC IKE failures seen for this HA service has exceeded the configured threshold. **Probable Cause:** This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearIPSECIKEFailures notification is generated when the measured value falls below the threshold.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object:

starThreshClearIPSECIKEFailures

Object ID: enterprises.8164.2.323

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshIPSECIKEFailRate**

Object ID: enterprises.8164.2.324

Description: The rate of IPSEC IKE failures (as a percentage of total requests) seen for this HA service has exceeded the configured threshold.Probable Cause: This is a user configurable threshold.Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearIPSECIKEFailRate notification is generated when the measured value falls below the threshold.

Objects: **starServiceVpnName**
starServiceServName
starThreshPct
starThreshMeasuredPct

Object: **starThreshClearIPSECIKEFailRate**

Object ID: enterprises.8164.2.325

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshPct
starThreshMeasuredPct

Object: **starThreshIPSECTunSetup**

Object ID: enterprises.8164.2.326

Description: The number of IPSEC tunnels setup over the last measurement period for this HA service has exceeded the configured threshold.Probable Cause: This is a user configurable threshold.**Condition Clear Alarm:** If the thresholding subsystem is configured to run in alarm mode, a starThreshClearIPSECTunSetup notification is generated when the measured value falls below the threshold.

Objects: **starServiceVpnName**
starServiceServName

starThreshInt
starThreshMeasuredInt

Object: **starThreshClearIPSECTunSetup**

Object ID: enterprises.8164.2.327

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshIPSECTunEstabl**

Object ID: enterprises.8164.2.328

Description: The current number of IPSEC tunnels established for this HA service has exceeded the configured threshold.**Probable Cause:** This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearIPSECTunEstabl notification is generated when the measured value falls below the threshold.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearIPSECTunEstabl**

Object ID: enterprises.8164.2.329

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshIPSECCallReqRej**

Object ID: enterprises.8164.2.330

Description: The number of IPSEC Rejected Call Requests has exceeded the configured threshold.**Probable Cause:** This is a user configurable threshold. Reject Call Requests indicate that an IPSEC Manager has reached its maximum allowable number of IPSEC tunnels.**Condition Clear Alarm:** If the thresholding subsystem is configured

to run in alarm mode, a starThreshClearIPSECTunnelsTotal notification is generated when the measured value falls below the threshold.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearIPSECCallReqRej**

Object ID: enterprises.8164.2.331

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshCSCFSvcRouteFailure**

Object ID: enterprises.8164.2.332

Description: The Per-Service CSCF Route failure count has gone above the configured threshold.**Probable Cause:** This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearCSCFSvcRouteFailure notification will be generated when the measured value falls below the threshold.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearCSCFSvcRouteFailure**

Object ID: enterprises.8164.2.333

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshContFiltRating**

Object ID: enterprises.8164.2.334

Description:

The number of Content Filtering Rating operations performed has gone above the configured threshold.**Probable Cause:** This is a user configurable threshold.Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearContFiltRating notification will be generated when the measured value falls below the threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearContFiltRating**

Object ID: enterprises.8164.2.335

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshContFiltBlock**

Object ID: enterprises.8164.2.336

Description: The number of Content Filtering Block operations performed has gone above the configured threshold.**Probable Cause:** This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearContFiltBlock notification will be generated when the measured value falls below the threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearContFiltBlock**

Object ID: enterprises.8164.2.337

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshCDRFileSpace**

Object ID: enterprises.8164.2.338

Description: The CDR file space usage is above the configured threshold percentage. **Probable Cause:** This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in an alarm mode, a starThreshClearCDRFileSpaceOverLimit notification is generated when the measured value falls below the threshold.

Objects:	**starThreshPct** **starThreshMeasuredPct**

Object:	**starThreshClearCDRFileSpace**
Object ID:	enterprises.8164.2.339
Description:	This information indicates that the threshold condition is now clear.

Objects:	**starThreshPct** **starThreshMeasuredPct**

Object:	**starThreshEDRFileSpace**
Object ID:	enterprises.8164.2.340
Description:	The EDR file space usage is above the configured threshold percentage. **Probable Cause:** This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearEDRFileSpaceOverLimit notification generated when the measured value falls below the threshold.

Objects:	**starThreshPct** **starThreshMeasuredPct**

Object:	**starThreshClearEDRFileSpace**
Object ID:	enterprises.8164.2.341
Description:	This information indicates that the threshold condition is now clear.

Objects:	**starThreshPct** **starThreshMeasuredPct**

Object:	**starThreshPDIFCurrSess**
Object ID:	enterprises.8164.2.342
Description:	The chassis-wide count of current PDIF sessions has gone above the configured threshold. **Probable Cause:** This is a user configurable threshold. Condition Clear Alarm: If the thresholding subsystem is configured to run in 'alarm' mode, a starThreshClearPDIFCurrSess notification will be generated when the measured value falls below the threshold.

Objects:	**starThreshInt** **starThreshMeasuredInt**

Object:	**starThreshClearPDIFCurrSess**

Object ID: enterprises.8164.2.343

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshPDIFCurrActSess**

Object ID: enterprises.8164.2.344

Description: The chassis-wide count of current PDIF active sessions has gone above the configured threshold. **Probable Cause:**This is a user configurable threshold. Condition Clear Alarm: If thresholding is configured to run in 'alarm' mode, a starThreshClearPDIFCurrActSess notification is generated when the value falls below the threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearPDIFCurrActSess**

Object ID: enterprises.8164.2.345

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshCDRFlowControl**

Object ID: enterprises.8164.2.346

Description: The number of Charging Data Record (CDR) records which have been discarded at an ACSMGR due to flow control has gone above the configured threshold. **Probable Cause:** This is a user configurable threshold. This threshold potentially indicates an overload condition due which prevents processes CDR messages at the same rate as the incoming packets. Condition Clear Alarm: If thresholding is configured to run in alarm mode, a starThreshClearCDRFlowControl notification is generated when the value falls below the threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearCDRFlowControl**

Object ID: enterprises.8164.2.347

Description:

The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshASNGWSessTimeout**

Object ID: enterprises.8164.2.348

Description: ASNGW session timeout has exceeded the configured threshold. **Probable Cause:** This is a user-configurable threshold. Condition Clear Alarm: If thresholding is configured to run in 'alarm' mode, a starThreshClearASNGWSessTimeout notification is generated when the value falls below the threshold

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearASNGWSessTimeout**

Object ID: enterprises.8164.2.349

Description: Threshold condition is now clear

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshASNGWSessSetupTimeout**

Object ID: enterprises.8164.2.350

Description: ASNGW session setup timeout has exceeded the configured threshold. Condition Clear Alarm: If thresholding is configured to run in alarm mode, a starThreshASNGWSessSetupTimeout notification is generated when the value falls below the threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearASNGWSessSetupTimeout**

Object ID: enterprises.8164.2.351

Description: Threshold condition is now clear

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshASNGWAuthFail**

Object ID: enterprises.8164.2.352

Description: Number of ASNGW authentication failures has exceeded the configured threshold in the current monitoring period. **Probable Cause:** This is a user-configurable threshold. Condition Clear Alarm: If thresholding is configured to run in alarm mode, a starThreshClearASNGWAuthFail notification is generated when the value falls below the threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearASNGWAuthFail**

Object ID: enterprises.8164.2.353

Description: Threshold conditrion is now clear

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshASNGWR6InvNai**

Object ID: enterprises.8164.2.354

Description: Number of ASNGW Invalid NAI has exceeded the configured threshold during the current monitoring period. **Probable Cause:** This is a user-configurable threshold. Condition Clear Alarm: If thresholding is configured to run in alarm mode, a starThreshASNGWR6InvNai notification is generated when the value falls below the threshold.

IMPORTANT: This object is obsolete.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearASNGWR6InvNai**

Object ID: enterprises.8164.2.355

Description: Threshold condition is now clear

IMPORTANT: This object is obsolete.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshASNGWMaxEAPRetry**

Object ID: enterprises.8164.2.356

Description: Number of ASNGW EAP retries has exceeded the configured threshold during the current monitoring period. **Probable Cause:** This is a user-configurable threshold. Condition Clear Alarm: If thresholding is configured to run in alarm mode, a starThreshClearASNGWMaxEAPRetry notification is generated when the value falls below the threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearASNGWMaxEAPRetry**

Object ID: enterprises.8164.2.357

Description: Threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshASNGWNWEntryDenial**

Object ID: enterprises.8164.2.358

Description: Number of ASNGW network entry denials has exceeded the configured threshold during the current monitoring period. **Probable Cause:**This is a user-configurable threshold. Condition Clear Alarm: If thresholding is configured to run in alarm mode, a starThreshASNGWNWEntryDenial notification is generated when the value falls below the threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearASNGWNWEntryDenial**

Object ID: enterprises.8164.2.359

Description: Threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshASNGWHandoffDenial**

Object ID: enterprises.8164.2.360

Description:

Number of ASNGW handoff denials has exceeded the configured threshold during the current monitoring period. **Probable Cause:** This is a user-configurable threshold. Condition Clear Alarm: If thresholding is configured to run in alarm mode, a starThreshASNGW Handoff Denial notification is generated when the value falls below the threshold.

Objects:	**starThreshInt** **starThreshMeasuredInt**

Object:	**starThreshClearASNGWHandoffDenial**
Object ID:	enterprises.8164.2.361
Description:	Threshold condition is now clear

Objects:	**starThreshInt** **starThreshMeasuredInt**

Object:	**starThreshSGSNSessions**
Object ID:	enterprises.8164.2.362
Description:	The total number of SGSN sessions is above the configured threshold value. **Probable Cause:** This is a user-configurable threshold. **Condition Clear Alarm:** If thresholding is configured to run in alarm mode, a starThreshClearSGSNSessions notification is generated when the value falls below the threshold.

Objects:	**starThreshInt** **starThreshMeasuredInt**

Object:	**starThreshClearSGSNSessions**
Object ID:	enterprises.8164.2.363
Description:	The threshold condition is now clear.

Objects:	**starThreshInt** **starThreshMeasuredInt**

Object:	**starThreshPerServiceSGSNSessions**
Object ID:	enterprises.8164.2.364
Description:	The total number of SGSN sessions in a service is above the configured threshold value. **Probable Cause:** This is a user-configurable threshold. Condition Clear Alarm: If thresholding is configured to run in alarm mode, a starThreshClearPerServiceSGSNSessions notification is generated when the value falls below the threshold.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearPerServiceSGSNSessions**

Object ID: enterprises.8164.2.365

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshSGSNPdpSessions**

Object ID: enterprises.8164.2.366

Description: The total number of SGSN PDP sessions is above the configured threshold value. **Probable Cause:** This is a user-configurable threshold. **Condition Clear Alarm:** If thresholding is configured to run in alarm mode, a starThreshClearSGSNPdpSessions notification is generated when the value falls below the threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearSGSNPdpSessions**

Object ID: enterprises.8164.2.367

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshPerServiceSGSNPdpSessions**

Object ID: enterprises.8164.2.368

Description: The total number of SGSN PDP sessions in a service is above the configured threshold value. **Probable Cause:**This is a user-configurable threshold. Condition Clear Alarm: If thresholding is configured to run in alarm mode, a starThreshClearPerServiceSGSNPdpSessions notification is generated when the value falls below the threshold.

Objects: **starServiceVpnName**

starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearPerServiceSGSNPdpSessions**

Object ID: enterprises.8164.2.369

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshFWDosAttack**

Object ID: enterprises.8164.2.370

Description: The cumulative number of FW DoS Attacks has exceeded the configured threshold during the current monitoring period. **Probable Cause:**This is a user-configurable threshold. Condition Clear Alarm: If thresholding is configured to run in alarm mode, a starThreshClearFWDoSAttack notification is generated when the value falls below the threshold.

Description: starThreshInt
starThreshMeasuredInt

Object: **starThreshClearFWDosAttack**

Object ID: enterprises.8164.2.371

Description: Threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshFWDropPacket**

Object ID: enterprises.8164.2.372

Description: The cumulative number of FW dropped packets has exceeded the configured threshold during the current monitoring period. Probable Cause: This is a user-configurable threshold.**Condition Clear Alarm:** If thresholding is configured to run in alarm mode, a starThreshClearFWDropPacket notification is generated when the value falls below the threshold.

Description: starThreshInt

starThreshMeasuredInt

Object: **starThreshClearFWDropPacket**

Object ID: enterprises.8164.2.373

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshFWDenyRule**

Object ID: enterprises.8164.2.374

Description: The cumulative number of FW Deny-Rules has exceeded the user-configurable threshold. **Probable Cause:** This is a user-configurable threshold. Condition Clear Alarm: If thresholding is configured to run in alarm mode, a starThreshClearFWDenyRule notification is generated when the value falls below the threshold.

Description: starThreshInt

starThreshMeasuredInt

Object: **starThreshClearFWDenyRule**

Object ID: enterprises.8164.2.375

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshFWNoRule**

Object ID: enterprises.8164.2.376

Description: The cumulative number of FW No Rules has exceeded the configured threshold in the current monitoring period. **Probable Cause:** This is a user-configurable threshold. Condition Clear Alarm: If thresholding is configured to run in alarm mode, a starThreshClearFWDenyRule notification is generated when the value falls below the threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearFWNoRule**

Object ID:

enterprises.8164.2.377

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshPHSGWSessTimeout**

Object ID: enterprises.8164.2.378

Description: The PHSGW session timeout has gone above the configured threshold. Probable Cause: This is a user configurable threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearPHSGWSessTimeout**

Object ID: enterprises.8164.2.379

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshPHSGWSessSetupTimeout**

Object ID: enterprises.8164.2.380

Description: The PHSGW session setup timeout has gone above the configured threshold. **Probable Cause:** This is a user configurable threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearPHSGWSessSetupTimeout**

Object ID: enterprises.8164.2.381

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshPHSGWAuthFail**

Object ID: enterprises.8164.2.382

Description: The number of PHSGW authentication failures has exceeded the configured threshold during the current monitoring period. Probable Cause: This is a user configurable threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearPHSGWAuthFail**

Object ID: enterprises.8164.2.383

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshPHSGWMaxEAPRetry**

Object ID: enterprises.8164.2.384

Description: The number of PHSGW Maximum EAP Retry has exceeded the configured threshold during the current monitoring period. **Probable Cause:**This is a user configurable threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearPHSGWMaxEAPRetry**

Object ID: enterprises.8164.2.385

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshPHSGWNWEntryDenial**

Object ID: enterprises.8164.2.386

Description: The number of PHSGW Network Entry Denial has exceeded the configured threshold during the current monitoring period. Probable Cause: This is a user configurable threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object:

starThreshClearPHSGWNWEntryDenial

Object ID: enterprises.8164.2.387

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshPHSGWHandoffDenial**

Object ID: enterprises.8164.2.388

Description: The number of PHSGW Handoff Denial has exceeded the configured threshold during the current monitoring period. **Probable Cause:**This is a user configurable threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearPHSGWHandoffDenial**

Object ID: enterprises.8164.2.389

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshASNGWSessions**

Object ID: enterprises.8164.2.390

Description: The total number of ASNGW sessions is above the configured threshold value. **Probable Cause:** This is a user-configurable threshold. **Condition Clear Alarm:** a starThreshClearASNGWSessions notification is generated when the value falls below the threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearASNGWSessions**

Object ID: enterprises.8164.2.391

Description: Threshold condition is now clear

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshPerServiceASNGWSessions**

Object ID: enterprises.8164.2.392

Description: The total number of PDSN sessions in a service is above the configured threshold value. **Possible Cause:** This is a user-configurable threshold. **Condition Clear Alarm**: a starThreshClearPerServiceASNGWSessions notification is generated when the value falls below the threshold.

Objects: **starServiceVPNName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearPerServiceASNGWSessions**

Object ID: enterprises.8164.2.393

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshPHSPCSessSetupTimeout**

Object ID: enterprises.8164.2.394

Description: The PHSPC session setup timeout has gone above the configured threshold **Probable Cause:** This is a user configurable threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearPHSPCSessSetupTimeout**

Object ID: enterprises.8164.2.395

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshPHSPCSleepModeTimeout**

Object ID: enterprises.8164.2.396

Description:

The PHSPC idle mode timeout has gone above the configured threshold. Probable Cause: This is a user configurable threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearPHSPCSleepModeTimeout**

Object ID: enterprises.8164.2.397

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshPHSPCSmEntryDenial**

Object ID: enterprises.8164.2.398

Description: The number of PHSPC sm entry denial has exceeded the configured threshold during the current monitoring period. **Probable Cause:**This is a user configurable threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearPHSPCSmEntryDenial**

Object ID: enterprises.8164.2.399

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshSGWSessions**

Object ID: enterprises.8164.2.408

Description: The total number of SGW sessions is above the configured threshold value. **Probable Cause:** This is a user configurable threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearSGWSessions**

Object ID: enterprises.8164.2.409

Description:

The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshPGWSessions**

Object ID: enterprises.8164.2.410

Description: The total number of PGW sessions is above the configured threshold value. **Probable Cause:** This is a user configurable threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearPGWSessions**

Object ID: enterprises.8164.2.411

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshLMASessions**

Object ID: enterprises.8164.2.412

Description: The total number of LMA sessions is above the configured threshold value. **Probable Cause:** This is a user configurable threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearLMASessions**

Object ID: enterprises.8164.2.413

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshMAGSessions**

Object ID: enterprises.8164.2.414

Description:

The total number of MAG sessions is above the configured threshold value. **Probable Cause:** This is a user configurable threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearMAGSessions**

Object ID: enterprises.8164.2.415

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshFNGCurrSess**

Object ID: enterprises.8164.2.416

Description: The chassis-wide count of current FNG sessions has gone above the configured threshold. **Probable Cause:** This is a user configurable threshold. If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearFNGCurrSess notification will be generated when the measured value falls below the threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearFNGCurrSess**

Object ID: enterprises.8164.2.417

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshFNGCurrActSess**

Object ID: enterprises.8164.2.418

Description: The chassis-wide count of current FNG active sessions has gone above the configured threshold. **Probable Cause:** This is a user configurable threshold. If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearFNGCurrActiveSess notification will be generated when the measured value falls below the threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearFNGCurrActSess**

Object ID: enterprises.8164.2.419

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshPHSGWEAPOLAuthFailure**

Object ID: enterprises.8164.2.420

Description: The number of PHSGW EAPOL Auth Failure has exceeded the configured threshold during the current monitoring period. **Probable Cause**: This is a user configurable threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearPHSGWEAPOLAuthFailure**

Object ID: enterprises.8164.2.421

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshPHSGWMaxEAPOLRetry**

Object ID: enterprises.8164.2.422

Description: The number of PHSGW max EAPOL retry has exceeded the configured threshold during the current monitoring period. **Probable Cause:**This is a user configurable threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearPHSGWMaxEAPOLRetry**

Object ID: enterprises.8164.2.423

Description: The threshold condition is now clear."

Objects: **starThreshInt**

starThreshMeasuredInt

Object: **starThreshHSGWSessions**

Object ID: enterprises.8164.2.424

Description: The total number of HSGW sessions is above the configured threshold value. **Probable Cause:** This is a user configurable threshold.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshNAPTPortChunks**

Object ID: enterprises.8164.2.425

Description: The NAT port chunks utilization of NAT pool is above the configured threshold value.

Objects: **starIPPoolContext**
starIPPoolName
starThreshInt
starThreshMeasuredInt

Object: **starThreshPDGCurrSess**

Object ID: enterprises.8164.2.426

Description: The chassis-wide count of current PDG sessions has gone above the configured threshold. **Probable Cause**: This is a user configurable threshold. If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearPDGCurrSess notification will be generated when the measured value falls below the threshold.

Object ID: enterprises.8164.2.427

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshPDGCurrActSess**

Object ID: enterprises.8164.2.428

Description: The chassis-wide count of current PDG active sessions has gone above the configured threshold **Probable Cause**: This is a user configurable threshold. If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearPDGCurrActiveSess notification will be generated when the measured value falls below the threshold.

Objects:	**starThreshInt** **starThreshMeasuredInt**

Object:	**starThreshClearPDGCurrActSess**
Object ID:	enterprises.8164.2.429
Description:	The threshold condition is now clear.

Objects:	**starThreshInt** **starThreshMeasuredInt**

Object:	**starThreshNAPTPortChunks**
Object ID:	enterprises.8164.2.430
Description:	The NAT port chunks utilization of NAT pool is above the configured threshold value. **Probable Cause:** This is a user configurable threshold. If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearNAPTPortChunks notification will be generated when the measured value exceeds the threshold.

Objects:	**starIPPoolContext** **starIPPoolName** **starThreshInt** **starThreshMeasuredInt**

Object:	**starThreshClearNAPTPortChunks**
Object ID:	enterprises.8164.2.431
Description:	The threshold condition is now clear.

Objects:	**starIPPoolContext** **starIPPoolName** **starThreshInt** **starThreshMeasuredInt**

Object:	**starThreshGPRSSessions**
Object ID:	enterprises.8164.2.432
Description:	The total number of GPRS sessions is above the configured threshold value.

Objects:	**starThreshInt** **starThreshMeasuredInt**

Object:	**starThreshClearGPRSSessions**
Object ID:	

enterprises.8164.2.433

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshPerServiceGPRSSessions**

Object ID: enterprises.8164.2.434

Description: The total number of GPRS sessions in a service is above the configured threshold value.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearPerServiceGPRSSessions**

Object ID: enterprises.8164.2.435

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshGPRSPdpSessions**

Object ID: enterprises.8164.2.436

Description: The total number of GPRS PDP sessions is above the configured threshold value.

Objects: **starThreshInt**
starThreshMeasuredInt

Object: **starThreshClearGPRSPdpSessions**

Object ID: enterprises.8164.2.437

Description: The threshold condition is now clear.

Objects: **starThreshInt**
starThreshMeasuredInt

Object:

starThreshPerServiceGPRSPdpSessions

Object ID: enterprises.8164.2.438

Description: The total number of GPRS PDP sessions in a service is above the configured threshold value.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearPerServiceGPRSPdpSessions**

Object ID: enterprises.8164.2.439

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshCSCFSvcRegPerInterval**

Object ID: enterprises.8164.2.446

Description: The Per-Service CSCF Registration Per Interval count has gone above the configured threshold . **Probable Cause:** This is a user configurable threshold.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearCSCFSvcRegPerInterval**

Object ID: enterprises.8164.2.447

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshCSCFSvcTotalActiveReg**

Object ID: enterprises.8164.2.448

Description: The Per-Service CSCF Total Active Registrations count has gone above the configured threshold. **Probable Cause:** This is a user configurable threshold.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearCSCFSvcTotalActiveReg**

Object ID: enterprises.8164.2.449

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshCSCFSvcCallsPerInterval**

Object ID: enterprises.8164.2.450

Description: The Per-Service CSCF Calls Per Interval count has gone above the configured threshold. **Probable Cause:** This is a user configurable threshold.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearCSCFSvcCallsPerInterval**

Object ID: enterprises.8164.2.451

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshCSCFSvcTotalActiveCalls**

Object ID: enterprises.8164.2.452

Description: The Per-Service CSCF Total Active Calls count has gone above the configured threshold. **Probable Cause:** This is a user configurable threshold.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearCSCFSvcTotalActiveCalls**

Object ID: enterprises.8164.2.453

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshCSCFSvcTotalCallFailure**

Object ID: enterprises.8164.2.454

Description: The Per-Service CSCF Total Call Failure count has gone above the configured threshold. **Probable Cause:** This is a user configurable threshold.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearCSCFSvcTotalCallFailure**

Object ID: enterprises.8164.2.455

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshCSCFSvcErrorNoResource**

Object ID: enterprises.8164.2.456

Description: The Per-Service CSCF No resource failure count has gone above the configured threshold. **Probable Cause:** This is a user configurable threshold.

Objects: **starServiceVpnName**
starServiceServName

starThreshInt
starThreshMeasuredInt

Object: **starThreshClearCSCFSvcErrorNoResource**

Object ID: enterprises.8164.2.457

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshCSCFSvcErrorTcp**

Object ID: enterprises.8164.2.458

Description: The Per-Service CSCF Tcp failure count has gone above the configured threshold. **Probable Cause:** This is a user configurable threshold.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearCSCFSvcErrorTcp**

Object ID: enterprises.8164.2.459

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshCSCFSvcErrorPresence**

Object ID: enterprises.8164.2.460

Description: The Per-Service CSCF Presence failure count has gone above the configured threshold. **Probable Cause:** This is a user configurable threshold.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object:

starThreshClearCSCFSvcErrorPresence

Object ID: enterprises.8164.2.461

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshCSCFSvcErrorRegAuth**

Object ID: enterprises.8164.2.462

Description: The Per-Service CSCF Reg-Auth failure count has gone above the configured threshold. **Probable Cause:** This is a user configurable threshold.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshClearCSCFSvcErrorRegAuth**

Object ID: enterprises.8164.2.463

Description: The threshold condition is now clear.

Objects: **starServiceVpnName**
starServiceServName
starThreshInt
starThreshMeasuredInt

Object: **starThreshBGPRoutes**

Object ID: enterprises.8164.2.464

Description: The Total number of BGP routes is above the configured threshold value. **Probable Cause:** This is a user configurable threshold. If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearBGPRoutes notification will be generated when the measured value falls below the threshold.

Object: **starThreshNPUUtilization**

Object ID: enterprises.8164.2.478

Description:

The overall NPU utilization for the identified processor has exceeded for configured threshold value for the current monitoring period. **Probable Cause:** This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearNPUUtilization notification will be generated when the measured value falls below the threshold.

Objects:	**starNPUSlot** **starThreshPct** **starThreshMeasuredPct**

Object:	**starThreshClearNPUUtilization**
Object ID:	enterprises.8164.2.479
Description:	The threshold condition is now clear.

Objects:	**starNPUSlot** **starThreshPct** **starThreshMeasuredPct**

Object:	**starThreshDnsLookupFailure**
Object ID:	enterprises.8164.2.480
Description:	The Total number of DNS lookup failures is above the configured threshold value.**Probable Cause:** This is a user configurable threshold. If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearDnsLookupFailure notification will be generated when the measured value falls below the threshold.

Objects:	**starContextName** **starThreshInt** **starThreshMeasuredInt**

Object:	**starThreshClearDnsLookupFailure**
Object ID:	enterprises.8164.2.481
Description:	The threshold condition is now clear.

Objects:	**starContextName** **starThreshInt** **starThreshMeasuredInt**

Object:	**starThreshDiameterRetryRate**
Object ID:	enterprises.8164.2.482

Description: The percentage of Diameter requests which has to be retried has exceeded the configured threshold during the current monitoring period. **Probable Cause:** This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearDiameterRetryRate notification will be generated when the measured value falls below the threshold.

Objects: **starThreshPct**
starThreshMeasuredPct

Object: **starThreshClearDiameterRetryRate**

Object ID: enterprises.8164.2.483

Description: The threshold condition is now clear.

Objects: **starThreshPct**
starThreshMeasuredPct

Object ID: **enterprises.8164.2.1006**

Description: ASP Down message received from the remote M3UA peer indicates the adaptation layer at the remote peer is not ready to receive DATA, SSNM, RKM or ASPTM messages. **Probable Cause:** SCTP association down or Remote peer server down. **Condition Clear Alarm:** A starM3UAPSPUp notification will be generated when remote ASP is available

Objects: **starSS7rdId**
starSS7M3UAPspID

Object: **starM3UAPSPUp**

Object ID: enterprises.8164.2.1007

Description: ASP Up message from remote M3UA Peer indicates the adaptation layer at the remote per is ready to receive ASPSM/ASPTM messages for all routing keys the ASP is configured to serve. Up message is only generated after a previous Down message.

Objects: **starSS7rdId**
starSS7M3UAPspId
starSS7M3UAPsId

Object: **starSCCPSspRcvd**

Object ID: enterprises.8164.2.1008

Description: Subsystem Prohibited message was received from a peer. **Probable Cause:** This is sent by the peer SCCP layer when one of its apps (subsystems), such as the HLR, is

out of commission. **Action to be Taken:** Receiving node needs to update the translation tables so that traffic can be directed to a backup system if available. **Condition Clear Alarm**: A starSCCPSspClear notification is generated when this condition is cleared.

Objects: **starSccpNwId**
starSS7Pc
starSccpSsn

Object: **starSCCPSspClear**

Object ID: enterprises.8164.2.1009

Description: Subsystem Available received from a peer This indicates a previously prohibited node is now available.

Objects: **starSccpNwId**
starSS7Pc
starSccpSsn

Object: **starSGSNRNCReset**

Object ID: enterprises.8164.2.1010

Description: SGSN has received a Radio Network Controller reset event. SGSN will clean up all the lu connections.

IMPORTANT: This event is not generated for RNC Reset the first time the system boots up.

Objects: **starSessSGSNVpnName**
starSessSGSNServName
starSessSGSNMcc
starSessSGSNMnc
starSessSGSNRncId

Object: **starSGSNHLRReset**

Object ID: enterprises.8164.2.1011

Description: Home Location Register (HLR) reset event received. SGSN will mark all subscribers served by this HLR so the subscription record can be fetched again on subsequent activity.

Objects: **starSessSGSNVpnName**
starSessSGSNServName
starSessSGSNhlrNum

Object:

starSGSNGtpcPathFailure

Object ID: enterprises.8164.2.1012

Description: No response received from peer GSN as several messages have timed out. The control path to the GSN is down **Probable Cause:** Remote GSN is down. **Condition Clear Alarm:** A starSGSNGtpcPathFailureClear alarm is generated when the GSN becomes reachable.

Objects: **starSGTPVpnName**
starSGTPServName
starSGTPPeerAdd
starSGTPPeerPort
starSGSNSelfAddr
starSGSNSelfPort

Object: **starSGSNFtpcPathFailureClear**

Object ID: enterprises.8164.2.1013

Description: The path to the peer GSN which was down is now available. Generated only for GSNs which had previously been down.

Objects: **starSGTPVpnName**
starSGTPServName
starSGTPPeerAddr

Object: **starSGSNGtpuPathFailure**

Object ID: enterprises.8164.2.1014

Description: No Response received for Echo Request sent from SGSN. Data path failure detected toward GSN or RNC. **Probable Cause:** Remote GSN is down. Action to be Taken: Check if peer RNC or GSN is up. **Condition Clear Alarm:** A starSGSNGtpuPathFailureClear message is generated when the remote GSN becomes available again.

Objects: **starSGTPVpnName**
starSGTPNServName
starSGTPPeerAddr
tarSGTPPeerPort
starSGSNSelfAddr
starSGSNSelfPort

Object: **starSGSNGtpuPathFailureClear**

Object ID: enterprises.8164.2.1015

Description:

The data path toward the peer GSN or RNC is now available. A path failure clear notification will only be sent for peers which had previously generated a path failure notification.

Objects: **starSGTPVpnName,**
starSGTPServName
starSGTPPeerAddr
starSGTPPeerPort
starSGSNSelfAddr
starSGSNSelfPor

Object: **starMTP3LinkOutofService**

Object ID: enterprises.8164.2.1016

Description: Message Transfer Part (MTP3) Link out of service. Probable Cause: Physical link is down, Layer 2 SSCOP/MTP2 is down or link deactivated by operator. Condition Clear Alarm: A starMTP3LinkInService message is generated when the link is restored.

Objects: **starSS7rdId**
starSS7MTP3LinkSetId
starSS7MTP3LinkId

Object: **starMTP3LinkinService**

Object ID: enterprises.8164.2.1017

Description: MTP3 link is now in service.

Objects: **starSS7rdId**
starSS7MTP3LinkSetId
starSS7MP3LinkId

Object: **starMTP3LinkSetUnAvailable**

Object ID: enterprises.8164.2.1018

Description: MTP3 Linkset Unavailable message. **Probable Cause:** All links in linkset are down. Linkset deactivated by operator.**Condition Clear Alarm:** A starMTP3LinkSetAvailable message is generated when the previously down linkset is restored.

Objects: **starSS7rdId**
starSS7MTP3LinkSetId

Object: **starMTP3LinkSetAvailable**

Object ID: enterprises.8164.2.1019

Description:

MTP3 linkset is now available

Objects: **starSS7rdId**
starSS7MTP3LinkSetId

Object: **starSCTPAssociationFail**

Object ID: enterprises.8164.2.1020

Description: M3UA SCTP association establishment failure. **Probable Cause:** Peer is down. Network is down. The endpoint configuration is incorrect at our end. **Condition Clear Alarm:**A starSCTPAssociationEstablished message is sent when a previously failed association is restored.

Objects: **starSS7rdId**
starSS7M3UAPspId
starSS7M3UAPsId

Object: **starSCTPAssociationEstablished**

Object ID: enterprises.8164.2.1021

Description: M3UA SCTP association established successfully. This message is only generated for peers which previously generated an Association Fail message.

Objects: **starSS7rdId**
starSS7M3UAPspId
starSS7M3UAPsId

Object: **starSCTPPathDown**

Object ID: enterprises.8164.2.1022

Description: SCTP path is down. **Probable Cause:** Peer is down. Network to the remote server is down. The endpoint configuration is incorrect at our end. **Condition Clear Alarm:**A starSCTPPathUp notification is generated when the path is restored.

Objects: **starSS7rdId**
starSS7M3UAPspId
starSS7M3UAPsId
starSS7SCTPPeerAddr
starSS7SCTPSelfAddr
starSS7SCTPPeerPort
starSS7SCTPSelfPort

Object: **starSCTPPathUp**

Object ID: enterprises.8164.2.1023

Description:

SCTP path up. This notification is only generated for peers which had previously generated an SCTP path down notification.

Objects: **starSS7rdId**
starSS7M3UAPspId
starSS7M3UAPsId
starSS7SCTPPeerAddr
starSS7SCTPPeerPort
starSS7SCTPSelfPort
starSS7SCTPSelfAddr

Object: **starPortDown**

Object ID: enterprises.8164.2.1024

Description: Physical port status is down. **Probable Cause:** Network is down. Port disconnected. **Condition Clear Alarm:** A starPortUp notification is generated when the port is restored.

Objects: **starPortSlot**
starPortNum
starPortType

Object: **starPortUp**

Object ID: enterprises.8164.2.1025

Description: Physical port is up. This notification is only generated for a physical port with a previous starPortDown notification.

Objects: **starPortSlot**
starPortNum
starPortType

Object: **starBSReachable**

Object ID: enterprises.8164.2.1026

Description: The base station that the IMG communicates with is now reachable.

Objects: **starContextName**
starASNGWServiceName
starBSAddress

Object: **starBSUnreachable**

Object ID: enterprises.8164.2.1027

Description:

The Base Station that the IMG communicates with is not reachable.**Probable Cause:** The Base Station has failed. Network has connectivity problems. **Action to be Taken:** If the outage was unplanned, reboot the base station and verify network connectivity. Condition Clear Alarm: A starBSReachable notification is generated when the base station is reconnected.

Objects: **starContextName**
starASNGWServiceName
starBSAddress

Object: **starSystemStartup**

Object ID: enterprises.8164.2.1028

Description: The system has completed a reboot/startup

Objects: **starChassisType**
starChassisDescription
starChassisSWRevision

Object: **starMTP3PCUnavailable**

Object ID: enterprises.8164.2.1029

Description: MTP3 route to the point code is unavailable. **Probable Cause:** All links within the linkset become unavailable. Remote peer is down. **Condition Clear Alarm:**A starMTP3PCAvailable message is generated when the route to the point code is reestablished.

Objects: **starSS7rdId**
starSS7Pc
starSS7MTP3LinkSetId

Object: **starMTP3PCAvailable**

Object ID: enterprises.8164.2.1030

Description: MTP3 route to the point code available

Objects: **starSS7rdId**
starSS7Pc
starSS7MTP3LinkSetId

Object: **starSS7PCUnavailable**

Object ID: enterprises.8164.2.1031

Description:

SS7 point code unavailable.**Probable Cause:** All MTP3 and M3UA routes to the point code become unavailable. **Condition Clear Alarm:** A starSS7PCAvailable message is generated when the route is reestablished.

Objects: **starSS7rdId**
starSS7Pc

Object: **starSS7PCAvailable**

Object ID: enterprises.8164.2.1032

Description: SS7 point code available.**Probable Cause:** one of the M3UA or MTP3 routes is back up. **Action to be Taken:** No action required.

Objects: **starSS7rdId**
starSS7Pc

Object: **starASNPCServiceStart**

Object ID: enterprises.8164.2.1033

Description: A WiMAX ASN Paging Controller (ASNPC) Service has started. Action to be Taken: No action required.

Objects: **starServiceVpnName**
starServiceServName

Object: **starASNPCServiceStop**

Object ID: enterprises.8164.2.1034

Description: A WiMAX ASN Paging Controller (ASNPC) Service has stopped. **Probable Cause:** This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration. **Action to be Taken:** If the ASNPC service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure. **Clear Condition:** Verify that the ASNPC service is operational.

Objects: **starServiceVpnName**
starServiceServName

Object: **starDiameterCapabilitiesExchangeFailure**

Object ID: enterprises.8164.2.1035

Description: Capability negotiations have failed and connections are down. **Probable Cause:** Connections have been torn down due to an error in the Capability Exchange Answer received from the peer

Objects:	**starDiameterVpnName** **starDiameterPeerAddr** **starDiameterEndpointName**

Object:	**starDiameterCapabilitiesExchangeSuccess**
Object ID:	enterprises.8164.2.1036
Description:	Diameter server is up. This notification is only generated for a server that has been previously declared unreachable

Objects:	**starDiameterVpnName** **starDiameterPeerAddr** **starDiameterEndpointName**

Object:	**starSRPConnDown**
Object ID:	enterprises.8164.2.1037

Objects:	**SRP system connection is down and active system is now without a standby and therefore unable to perform an SRP switchover.** **Probable Cause: Network connectivity problem.** **Action to be Taken:Verify standby system is operational and check the network connections are up.** **Clear Condition: A starSRPConnUp notification s generated when condition is cleared.**

Objects:	**starContextName** **starSRPIpAddress**

Object:	**starSRPConnUP**
Object ID:	enterprises.8164.2.1038
Description:	SRP connection is restored. This notification is only generated after a previous connection loss was reported.

Objects:	**starContextName** **starSRPIpAddress**

Object:	**starDiameterIpv6PeerDown**
Object ID:	enterprises.8164.2.1039
Description:	A diameter peer is down. This diameter peer is reached using an IPv6 address. For IPv4-connected diameter peers, a starDiameterPeerDown notification would be generated. **Problem Cause**: The diameter peer has failed, or a network connectivity prevents reaching the peer. **Condition Clear Alarm**: A starDiameterPeerUp notification will be generated when the peer is up.

Objects:	**starDiameterVpnName** **starDiameterPeerAddrIpv6** **starDiameterEndpointName**

Object:	**starDiameterIpv6PeerUp**
Object ID:	enterprises.8164.2.1040
Description:	A diameter peer is up. This diameter peer is reached using an IPv6 address. This notification is only generated for peers which have previously been declared down. For IPv4-connected diameter peers, a starDiameterPeerUp notification would be generated.

Objects:	**starDiameterVpnName** **starDiameterPeerAddrIpv6** **starDiameterEndpointName**

Object:	**starIPMSServerUnreachable**
Object ID:	enterprises.8164.2.1041
Description:	An IPMS server is unreachable. **Probable Cause:** The IPMS server has failed, or a network connectivity issue prevents reaching the server. **Condition Clear Alarm**: A 7713dcf72--1301" mergeid="a--92d120d-127713dcf72--1300">starStorageName

Object:	**starIPMSServerReachable**
Object ID:	enterprises.8164.2.1042
Description:	An IPMS server is reachable. A starIPMSServerReachable notification is only generated for servers which had previously been declared unreachable

Objects:	**starIPMSServerVpnName** **starIPMSServerAddr**

Object:	**starCertShortLifetime**
Object ID:	enterprises.8164.2.1043
Description:	A certificate is approaching its expiration. The certificate is still valid, but should beupdated with a new certificate. **Action to be Taken:** A new certificate should be created and configured on the system.

Object:	**starRaidRecovered**

Object:	**starRaidDegraded**
Object ID:	

enterprises.8164.2.1079

Description: The specified raid array is running in a degraded state. This typically means one of the member devices has failed or become unavailable. The raid array continues to function and can read/store data, but may not be operating in a redundant manner. **Probable Cause:** Hardware failure(s) on the devices within the raid array; Hardware failure(s) on the card(s) to which the devices are attached; the removal of the cards containing devices in the array; operator action which disabled the raid array. **Condition Clear Alarm:** a starRaidRecovered notification will be generated when the raid array is fully recovered.

Objects: **starStorageName**
starStorageSlot
starStorageName

Object: **starRaidRecovered**

Object ID: enterprises.8164.2.1080

Description: The specific raid array has been recovered and is running in its normal, redundant state. This notification is only generated if a starRaidDegraded notification was previously generated for this array.

Objects: **starStorageName**
starStorageSlot
starStorageName

Object: **starPGWServiceStart**

Object ID: enterprises.8164.2.1081

Description: A Packet Data Network Gateway (PGW) Service has started. **Action to be Taken:** No action required.

Objects: **starServiceVpnName**
starServiceServName

Object: **starPGWServiceStop**

Object ID: enterprises.8164.2.1082

Description: A Packet Data Network Gateway (PGN) Service has stopped. **Probable Cause:** This is typically caused by operator intervention. In rare cases it can be caused by the loss of resources (PSCs) to support the running configuration. **Action to be Taken**: If the PGW service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PSCs are present and running in the system. Check the crash logs for an indication of a software failure. **Clear Condition:** Verify that the PGW service is operational. **Condition Clear Alarm:** A starPGWServiceStart notification will be generated when the service is restarted.

Objects:	**starServiceVpnName** **starServiceServName**
Object:	**starSGWServiceStart**
Object ID:	enterprises.8164.2.1083
Description:	A Serving Gateway (SGW) Service has started. **Action to be Taken:** No action required.
Objects:	**starServiceVpnName** **starServiceServName**
Object:	**starSGWServiceStop**
Object ID:	enterprises.8164.2.1084
Description:	A Serving Gateway (SGW) Service has stopped. **Probable Cause:** This is typically caused by operator intervention. In rare cases it can be caused by the loss of resources (PSCs) to support the running configuration. **Action to be Taken**: If the SGW service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PSCs are present and running in the system. Check the crash logs for an indication of a software failure.**Clear Condition:** Verify that the SGW service is operational. **Condition Clear Alarm:** A starSGWServiceStart notification will be generated when the service is restarted.
Objects:	**starServiceVpnName** **starServiceServName**
Object:	**starEGTPServiceStart**
Object ID:	enterprises.8164.2.1085
Description:	An Evolved GPRS Tunneling Protocol (EGTP) Service has started. Action to be Taken: No action required.
Objects:	**starServiceVpnName** **starServiceServName**
Object:	**starEGTPServiceStop**
Object ID:	enterprises.8164.2.1086
Description:	An Evolved GPRS Tunneling Protocol (EGTP) Service has stopped. Probable Cause: This is typically caused by operator intervention. In rare cases it can be caused by the loss of resources (PSCs) to support the running configuration. **Action to be Taken:** If the EGTP service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PSCs are present and running in the

system. Check the crash logs for an indication of a software failure. **Clear Condition:** Verify that the EGTP service is operational.

Objects: **starServiceVpnName**
starServiceServName

Object: **starLMAServiceStart**

Object ID: enterprises.8164.2.1087

Description: A Local Mobility Anchor (LMA) Service has started. **Action to be Taken:** No action required

Objects: **starServiceVpnName**
starServiceServName

Object: **starLMAServiceStop**

Object ID: enterprises.8164.2.1088

Description: A Local Mobility Anchor (LMA) Service has stopped. **Probable Cause:** This is typically caused by operator intervention. In rare cases it can be caused by the loss of resources (PSCs) to support the running configuration. **Action to be Taken**: If the LMA service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PSCs are present and running in the system. Check the crash logs for an indication of a software failure. **Clear Condition:** Verify that the LMA service is operational.

Objects: **starServiceVpnName**
starServiceServName

Object: **starMAGServiceStart**

Object ID: enterprises.8164.2.1089

Description: A Mobile Access Gateway (MAG) Service has started. **Action to be Taken:** No action required.

Objects: **starServiceVpnName**
starServiceServName

Object: **starMAGServiceStop**

Object ID: enterprises.8164.2.1090

Description: A MAG Service has stopped.**Probable Cause:** This is typically caused by operator intervention. In rare cases it can be caused by the loss of resources (PSCs) to support the running configuration.**Action to be Taken:** If the MAG service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all

configured PSCs are present and running in the system. Check the crash logs for an indication of a software failure. **Clear Condition:** Verify that the MAG service is operational. Condition Clear Alarm: A starMAGServiceStart notification will be generated when the service is restarted.

Objects:	**starServiceVpnName** **starServiceServName**

Object:	**starMMEServiceStart**
Object ID:	enterprises.8164.2.1091
Description:	A Mobility Management Entity (MME) Service has started.**Action to be Taken:** No action required.

Objects:	**starServiceVpnName** **starServiceServName**

Object:	**starMMEServiceStop**
Object ID:	enterprises.8164.2.1092
Description:	A Mobility Ma ageme t E tity (MME) Service has stopped. **Probable Cause:** This is typically caused by operator i terve tio . I rare cases it ca be caused by the loss of resources (PSCs) to support the ru i g co figuratio . Actio to be Take : If the MME service shutdow was ot pla ed, exami e the admi logs for a i dicatio of the failure. Verify that all co figured PSCs are prese t a d ru i g i the system. Check the crash logs for a i dicatio of a software failure. **Clear Codition** : Verify that the MME service is operatio al. **Conditio Clear Alarm**: A starMMEServiceStart otificatio will be ge erated whe the service is restarted.

Objects:	**starServiceVpnName** **starServiceServName**

Object:	**starHSGWServiceStart**
Object ID:	enterprises.8164.2.1093
Description:	A HRPD Serving Gateway (HSGW) Service has started. **Action to be Taken:**No action required

Objects:	**starServiceVpnName** **starServiceServName**

Object:	**starHSGWServiceStop**
Object ID:	enterprises.8164.2.1094
Description:	

A HRPD Servi g Gateway (HSGW) Service has stopped.**Probable Cause:** This is typically caused by operator i terve tio . I rare cases it ca be caused by the loss of resources (PSCs) to support the ru i g co figuratio .**Actio to be Taken** : If the HSGW service shutdow was ot pla ed, exami e the admi logs for a i dicatio of the failure. Verify that all co figured PSCs are prese t a d ru i g i the system. Check the crash logs for a i dicatio of a software failure.**Clear Condition**: Verify that the HSGW service is operatio al.**Conditio Clear Alarm:** A starHSGWServiceStart otificatio will be ge erated whe the service is restarted.

Objects: **starServiceVpnName**
starServiceServName

Object: **starCPUBusyClear**

Object ID: enterprises.8164.2.1095

Description: The CPU is no longer busy.

Objects: **starCPUSlot**
starCPUNumber

Object: **starCPUMemoryLowClear**

Object ID: enterprises.8164.2.1096

Description: The identified manager task has been restarted.

Objects: **starCPUSlot**
starCPUNumber

Object: **starFNGServiceStart**

Object ID: enterprises.8164.2.1097

Description: A FNG Service has started.

Action to be Taken: No action required.

Objects: **starServiceVpnName**
starServiceServName

Object: **starFNGServiceStop**

Object ID: enterprises.8164.2.1098

Description: A FNG Service has stopped.**Probable Cause:** This is typically caused by operator invention. In rare cases it can be caused by the loss of resources (PACs) to support the running configuration.**Action to be Taken:** If the FNG service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all

configured PACs are present and running in the system. Check the crash logs for an indication of a software failure. **Clear Condition:** Verify that the FNG service is operational. **Condition Clear Alarm**: A starFNGServiceStart notification will be generated when the service is restarted

Objects: **starServiceVpnName**
starServiceServName

Object: **starManagerRestart**

Object ID: enterprises.8164.2.1099

Description: The identified manager task has been restarted.

Objects: **starTaskFacilityName**
starTaskInstance
starTaskCard
starTaskCPU

Object: **starConfigurationUpdate**

Object ID: enterprises.8164.2.1100

Description: The configuration of the chassis has been changed. This notification is generated based on a periodic polling of the chassis, it is not real-time generated based on individual changes. The configuration change could have been made via CLI sessions, CORBA management operations, or other methods. This notification is not generated by default, it is only generated if the configuration polling mechanism is specifically enabled.

Object: **starPDGServiceStart**

Object ID: enterprises.8164.2.1101

Description: A PDG Service has started **Action to be Taken**: No action required.

Objects: **starServiceVpnName**
starServiceServName

Object: **starPDGServiceStop**

Object ID: enterprises.8164.2.1102

Description: A PDG Service has stopped. **Probable Cause**: This is typically caused by operator invention. In rare cases it can be caused by the loss of resources (PACs) to support the running configuration. **Action to be Taken**: If the PDG service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs are present and running in the system. Check the crash logs for an indication of a software failure.**Clear Condition:** Verify that the PDG service is

operational. **Condition Clear Alarm**: A starPDGServiceStart notification will be generated when the service is restarted.

Objects:	**starServiceVpnName** **starServiceServName**
Object:	**starASNPCServiceStart**
Object ID:	enterprises.8164.2.1103
Description:	A WiMAX ASN Paging Controller (ASNPC) Service has started
Objects:	**starServiceVpnName, starServiceServName**
Object:	**starPDGServiceStop**
Object ID:	enterprises.8164.2.1104
Description:	A PDG Service has stopped.
Objects:	**starServiceVpnName, starServiceServName**
Object:	**starDiameterIpv6PeerDown**
Object ID:	enterprises.8164.2.1105
Description:	A diameter peer is down.
Objects:	**starDiameterVpnName, starDiameterPeerAddrIpv6, starDiameterEndpointName**
Object:	**starDiameterIpv6PeerUp**
Object ID:	enterprises.8164.2.1106
Description:	A diameter peer is up.
Objects:	**starDiameterVpnName, starDiameterPeerAddrIpv6, starDiameterEndpointName**
Object:	**starIPMSServerUnreachable**
Object ID:	enterprises.8164.2.1107
Description:	An IPMS server is unreachable.
Objects:	**starIPMSServerVpnName, starIPMSServerAddr**
Object:	**starIPMSServerReachable**
Object ID:	

enterprises.8164.2.1108

Description: An IPMS server is reachable. A starIPMSServerReachable notification is only generated for servers which had previously been declared unreachable.

Objects: **starIPMSServerVpnName, starIPMSServerAddr**

Object: **starCertShortLifetime**

Object ID: enterprises.8164.2.1109

Description: A certificate is approaching its expiration. The certificate is still valid, but should be updated with a new certificate.

Objects: **starCertSerialNumber, starCertIssuer, starCertExpiryTime**

Object: **starServiceLossPTACsClear**

Object ID: enterprises.8164.2.1110

Description: Service Loss condition is no longer valid for PAC/PSC/TACs

Objects: **starCardMode**

Object: **starServiceLossLCClear**

Object ID: enterprises.8164.2.1111

Description: Service Loss condition is no longer valid for LC

Objects: **starCardMode**

Object: **starEgtpcPathFailure**

Object ID: enterprises.8164.2.1112

Description: EGTP Control Path Failure. No response received for GTPV2 request sent from MME or SGW or PGW. **Possibe reason**: Remote peer MME or SGW or PGW is down **Condition Clear Alarm**: A StarEgtpcPathFailureClear notification will be generated when the control path to the remote peer MME or SGW or PGW becomes available.

Objects: **starEGTPVpnName**
starEGTPServName
starEGTPInterfaceType
starEGTPSelfAddr
starEGTPPeerAddr
starEGTPPeerOldRstCnt

starEGTPPeerNewRstCnt
starEGTPPeerSessCnt
starEGTPFailureReason

Object: **starEgtpcPathFailureClear**

Object ID: enterprises.8164.2.1113

Description: EGTP Control Path Failure condition is no longer valid.

Objects: **starEGTPVpnName**
starEGTPServName
starEGTPInterfaceType
starEGTPSelfAddr
starEGTPPeerAddr

Object: **starCscfSessResourceCongestion**

Object ID: enterprises.8164.2.1114

Description: A congestion condition has occurred at Session Manager for Cscf Service

Probable Cause: This is the result of an operator-configured congestion threshold being reached for Cscf Service at Session Manager. This can be due to high usage of the resource being monitored which indicates that the IMG is reaching its peak capacity, or could be caused by the incorrect configuration of the congestion thresholds. **Actions to be Taken**:Verify that the congestion thresholds are correct; if the congested state is seem repeatedly, or for sustained periods of time, additional system capacity may need to be brought online. **Condition Clear Alarm**: A starCscfSessResourceCongestionClear notification is sent when there are no congestion conditions for cscf service in that Session Manager Instance This system is cleared when the use of the specific resource falls below the configured limit.

Objects: **starSmgrId**
starCongestionPolicy
starCscfSessCongestionResourceType

Object: **starCscfSessResourceCongestionClear**

Object ID: enterprises.8164.2.1115

Description: A congestion condition has cleared at Session Manager for Cscf service

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Objects: **starSmgrId**

Object: **starOSPFv3NeighborDown**

Object ID: enterprises.8164.2.1116

Description:

An OSPFv3 neighbor is down

Objects:	**starContextName** **starInterfaceName** **starInterfaceIPAddress** **starOSPFNeighborRouterID** **starOSPFFromState** **starOSPFToState**

Object:	**starOSPFv3NeighborFull**
Object ID:	enterprises.8164.2.1117
Description:	An OSPFv3 neighbor is full. A starOSPFv3NeighborFull notification is only sent for neighbors which had previous been declared down via a starOSPFv3NeighborDown notification

Objects:	**starContextName** **starInterfaceName** **starInterfaceIPAddress** **starOSPFNeighborRouterID**

Object:	**starServiceLossSPIOClear**
Object ID:	enterprises.8164.2.1118
Description:	Service Loss condition is no longer valid for SPIO

Objects:	**starCardMode**

Object:	**starEgtpuPathFailure**
Object ID:	enterprises.8164.2.1119
Description:	No response received for GTP-U ECHO requests. Data path failure detected towards peer EPC Node. Check if the peer RNC or GSN is up. **Possible reason**: Remote EPC node is down. **Condition Clear Alarm:** A starEgtpuPathFailureClear notification will be generated when the data path towards the peer node is available.

Objects:	**starEGTPVpnName** **starEGTPServName** **starEGTPSelfAddr** **starEGTPPeerAddr** **starEGTPSelfPort** **starEGTPPeerPort** **starEGTPPeerSessCnt**

Object:	**starEgtpuPathFailureClear**
Object ID:	

enterprises.8164.2.1120

Description: The data path to the peer EPC node which was down is now available A starEgtpuPathFailureClear notification is only generated for nodes which had previously generated a starEgtpuPathFailure notification.

Objects: **starEGTPVpnName**
starEGTPServName
starEGTPSelfAddr
starEGTPPeerAddr
starEGTPSelfPort
starEGTPPeerPort

Object: **starStorageServerCDRLoss**

Object ID: enterprises.8164.2.1121

Description: GTPP Storage Server is experiencing CDR Loss greater than the configured threshold value at the GSS.

Objects: **starSessGGSNVpnName**
starSessGGSNPeerAddr
starGSSCDRLossConfigured
starGSSCDRLossMeasured
starGSSClusterName
starGSSClusterNodeName

Object: **starHNBGWServiceStart**

Object ID: enterprises.8164.2.1122

Description: A Home Node B Gateway (HNB GW) Service has started

Action to be Taken: No action required

Objects: **starServiceVpnName**
starServiceServName

Object: **starHNBGWServiceStop**

Object ID: enterprises.8164.2.1123

Description: A Home Node B Gateway (PGN) Service has stopped

Probable Cause: This is typically caused by operator intervention. In rare cases it can be caused by the loss of resources (PSCs) to support the running configuration

Action to be Taken: If the HNB GW service shutdown was not planned, examine the ad min logs for an indication of the failure. Verify that all configured PSCs are present and running in the system. Check the crash logs for an indication of a sof tware failure

Clear Condition: Verify that the HNB GW service is operational

Condition Clear Alarm: A starHNBGWServiceStart notification will be generated when the service is restarted

Objects: **starServiceVpnName**
starServiceServName

Object: **starSystemReboot**

Object ID: enterprises.8164.2.1124

Description: The system has rebooted by the operator. If successful, a subsequent starSystemStartup trap is typically generated

Action to be Taken: No action required. If the reboot was not scheduled the admin logs can be examined to determine who invoked the reboot operation

Objects: **starChassisType**
starChassisDescription
starChassisSWRevision

Object: **starLicenseAboutToExpire**

Object ID: enterprises.8164.2.1125

Description: A license is about to expire

Action to be Taken: A new license should be created and configured on the system before the grace period is over

Objects: **starLicenseKey**
starLicenseExpiryDate
starLicenseDaysRemaining

Object: **starStorageServerCDRLoss**

Object ID: enterprises.8164.2.1126

Description: A license is in the grace period and should be updated with a new license

Action to be Taken: A new license should be created and configured on the system

Object: **starGSServiceStart**

Object ID: enterprises.8164.2.1135

Description: A GS Service has started

Action to be Taken: No action required

Objects: **starServiceVpnName**
starServiceServName

Object: **starGSServiceStop**

Object ID: enterprises.8164.2.1136

Description: A GS Service has stopped. Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the GS service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Objects: **starServiceVpnName**
starServiceServName

Object: **starMAPServiceStart**

Object ID: enterprises.8164.2.1137

Description: A MAP Service has started

Action to be Taken: No action required

Objects: **starServiceVpnName**
starServiceServName

Object: **starMAPServiceStop**

Object ID: enterprises.8164.2.1138

Description: A MAP Service has stopped.

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Objects: **starServiceVpnName**
starServiceServName

Object: **starIUPSServiceStart**

Object ID: enterprises.8164.2.1139

Description: An IUPS Service has started

Action to be Taken:No action required

Objects: **starServiceVpnName**
starServiceServName

Object: **starIUPSServiceStop**

Object ID: enterprises.8164.2.1140

An IUPS Service has stopped.

Description:

Action to be Taken:This is typically caused by operator invention. In nusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the IUPS service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the IUPS service is operational.

Objects: **starServiceVpnName**
starServiceServName

Object: **starSGTPServiceStart**

Object ID: enterprises.8164.2.1141

Description: A SGTP Service has started

Action to be Taken:No action required

Objects: **starServiceVpnName**
starServiceServName

Object: **starSGTPServiceStop**

Object ID: enterprises.8164.2.1142

Description: A SGTP Service has stopped.

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken:If the SGTP service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the SGTP service is operational.

Objects: **starServiceVpnName**
starServiceServName

Object: **starCertExpired**

Object ID: enterprises.8164.2.1044

Description: A certificate has expired. The certificate is no longer valid.

Objects: **starCertSerialNumber, starCertIssuer, starCertExpiryTime**

Object:	**starCertValid**
Object ID:	enterprises.8164.2.1045
Description:	A valid certificate has been configured. This notification is only generated if a starCertExpired had been previously generated.
Objects:	**starCertSerialNumber, starCertIssuer, starCertExpiryTime**
Object:	**starFTPPushFail**
Object ID:	enterprises.8164.2.1046
Description:	An FTP push operation has failed for the specified file to the specified server.
Objects:	**starFTPServVpnName, starFTPServIpAddr, starFileName, starFileApplication**
Object:	**starFTPServSwitch**
Object ID:	enterprises.8164.2.1047
Description:	An FTP server switchover has been performed; that is, the system has determined that an external FTP server is unreachable, and is not using an alternate FTP server.
Objects:	**starFTPServVpnName, starFTPServIpAddr, starFTPServIpAddr, starFileApplication**

Standards-based Traps

The following traps are defined in RFC 1157, Simple Network Management Protocol (SNMP) and are supported by the system:

- linkDown The Interface Index for this trap is the IfIndex for the physical port, not the logical interface.
- linkUp The Interface Index for this trap is the IfIndex for the physical port, not the logical interface.
- authenticationFailure
- enterpriseSpecific

Chapter 3
Starent MIB Conformances(3)

starentMIB(8164).starentMIBObjects(1).starentEMSMIB(1000).starEmsMIBConformances(3)

starentMIB(8164).starentMIBConformance(3).starentMIBGroups(1)

Object Group: **starChassisGroup**

Object ID: enterprises.8164.3.1.1

Description: A collection of objects providing information about a chassis.

Description:
starChassisCriticalCO
starChassisMajorCO
starChassisMinorCO
starChassisAudibleAlarm
starChassisUTCTime
starChassisLocalTime
starChassisType
starChassisAction
starTimeTicks
starChassisDescription
starChassisSWRevision
starSlotType
starCardType
starCardOperState
starCardAdminState
starCardRevision
starCardLastStateChange
starCardMode
starCardPacStandbyPriority
starCardLock
starCardHaltIssued
starCardRebootPending
starCardUsable
starCardSinglePOF

starCardAttachment
starCardTemperature
starSlotNumPorts
starSlotAction
starSlotVoltageState
starSlotNumCPU
starSlotMappingType
starSlotMappingRCCNum
starSlotMappingToSlot
starFanLocation
starFanStatus
starFanSpeed
starLogCurSize
starLogMaxSize
starLogText
starPowerState
starCPUUser
starCPUSystem
starCPUIdle
starCPUIO
starCPUIRQ
starCPULoad1Min
starCPULoad5Min
starCPULoad15Min
starCPUMemTotal
starCPUMemUsed
starCPUNumProcesses
starCPUMemCached
starSessInProgCalls
starSessInProgActiveCalls
starSessInProgDormantCalls
starSessInProgArrived
starSessInProgLCPNeg
starSessInProgLCPUp
starSessInProgAuthenticating
starSessInProgAuthenticated
starSessInProgIPCPUp

starSessInProgSIPConn
starSessInProgMIPConn
starSessInProgDisc
starSessMgrCount
starSessTtlArrived
starSessTtlRejected
starSessTtlConnected
starSessTtlAuthSucc
starSessTtlAuthFail
starSessTtlLCPUp
starSessTtlIPCPUp
starSessTtlSrcViol
starSessTtlKeepFail
starSessTtlOctForwarded
starSessTtlRPRegAccept
starSessTtlRPRegAcceptInterPDSN
starPPPCurrSessions
starSessTtlTxBytes
starSessTtlRxBytes
starSessTtlSIPTxBytes
starSessTtlSIPRxBytes
starSessTtlMIPTxBytes
starSessTtlMIPRxBytes
starSessTtlOctForwardedGB
starAAAMgrCount
starAAATtlRequests
starAAATtlAuthRequests
starAAATtlAcctRequests
starAAACurRequests
starAAACurAuthRequests
starAAACurAcctRequests
starAAATtlAcctSess
starAAACurAcctSess
starAAATtlAuthSuccess
starAAATtlAuthFailure
starA11MgrCount
starA11TtlArrived

starA11TtlRejected
starA11TtlDemultiplexed
starA11TtlDereg
starA11CurActive
starHAMgrCount
starHATtlArrived
starHATtlRejected
starHATtlDemultiplexed
starHATtlDereg
starHACurActive
starFAMgrCount
starFATtlArrived
starFATtlRejected
starFATtlDemultiplexed
starFATtlDereg
starFACurActive
starServiceVpnName
starServiceServName
starServiceSubLimit
starServiceSubCurrent
starServiceType
starServiceFAIpAddr
starServiceHAIpAddr
starCLITtyname
starCLIPrivs
starCLIType
starCLIRemoteIPAddr
starCLIContext
starTaskFacilityName
starTaskCard
starTaskCPU
starPPPStatVpnName
starPPPStatServName
starPPPStatInit
starPPPStatReneg
starPPPStatSuccess
starPPPStatFailed

starPPPStatReleased
starPPPStatReleasedLocal
starPPPStatReleasedRemote
starPPPStatLcpFailMaxRetry
starPPPStatLcpFailOption
starPPPStatIpcpFailMaxRetry
starPPPStatIpcpFailOption
starPPPStatCcpFail
starPPPStatAuthFail
starPPPStatLcpEntered
starPPPStatAuthEntered
starPPPStatIpcpEntered
starPPPStatRenegPdsn
starPPPStatRenegMobil
starPPPStatRenegAddrMismatch
starPPPStatRenegOther
starPPPStatChapAuthAttempt
starPPPStatPapAuthAttempt
starPPPStatMSChapAuthAttempt
starPPPStatChapAuthFail
starPPPStatPapAuthFail
starPPPStatMSChapAuthFail
starPPPStatStacComp
starPPPStatMppcComp
starPPPStatDeflComp
starPPPStatFscErrs
starPPPStatUnknProto
starPPPStatBadAddr
starPPPStatBadCtrl
starPPPStatVjComp
starPPPStatDiscLcpRemote
starPPPStatDiscRpRemote
starPPPStatDiscAdmin
starPPPStatDiscIdleTimeout
starPPPStatDiscAbsTimeout
starPPPStatDiscPPPKeepalive
starPPPStatDiscNoResource

starPPPStatDiscMisc
starPPPStatFailedReneg
starPPPStatLcpFailUnknown
starPPPStatIpcpFailUnknown
starPPPStatAuthAbort
starPPPStatLowerLayerDisc
starPPPStatLcpSuccess
starPPPStatAuthSuccess
starPPPStatRenegLowerLayerHandoff
starPPPStatRenegParamUpdate
starPPPStatChapAuthSuccess
starPPPStatPapAuthSuccess
starPPPStatMSChapAuthSuccess
starPPPStatChapAuthAbort
starPPPStatPapAuthAbort
starPPPStatMSChapAuthAbort
starPPPStatSessSkipAuth
starPPPStatNegComp
starPPPStatCCPNegFailComp
starPPPStatDiscLocalLowerLayer
starPPPStatDiscAddFlowFail
starPPPStatDiscMaxRetriesLCP
starPPPStatDiscMaxRetriesIPCP
starPPPStatDiscMaxSetupTimer
starPPPStatDiscInvalidDestVpn
starPPPStatDiscOptNegFailLCP
starPPPStatDiscOptNegFailIPCP
starPPPStatDiscNoRemoteIpAddr
starPPPStatDiscCallTypeDetectFail
starPPPStatDiscRemoteDiscUpLayer
starPPPStatDiscLongDuraTimeout
starPPPStatDiscAuthFail
starPPPStatLCPEchoTotalReq
starPPPStatLCPEchoReqResent
starPPPStatLCPEchoRepRecved
starPPPStatLCPEchoReqTimeout
starPPPStatRecvErrBadCtrlField

starPPPStatRecvErrBadPacketLen
starPPPStatRemoteTerm
starPPPStatMiscFail
starMIPHAStatVpnID
starMIPHAStatVpnName
starMIPHAStatServName
starMIPHAStatDisconnects
starMIPHAStatExpiry
starMIPHAStatDereg
starMIPHAStatAdminDrop
starMIPHAStatRegRecvTotal
starMIPHAStatRegRecvInitial
starMIPHAStatRegRecvRenew
starMIPHAStatRegRecvDereg
starMIPHAStatRegAcceptTotal
starMIPHAStatRegAcceptReg
starMIPHAStatRegAcceptRenew
starMIPHAStatRegAcceptDereg
starMIPHAStatRegDeniedTotal
starMIPHAStatRegDeniedInitial
starMIPHAStatRegDeniedRenew
starMIPHAStatRegDeniedDereg
starMIPHAStatRegReplyTotal
starMIPHAStatRegReplyAcceptReg
starMIPHAStatRegReplyAcceptDereg
starMIPHAStatRegReplyDenied
starMIPHAStatRegReplyBadReq
starMIPHAStatRegReplyMismatchID
starMIPHAStatRegReplyAdminProhib
starMIPHAStatRegReplyUnspecErr
starMIPHAStatRegReplyNoResource
starMIPHAStatRegReplyMnAuthFail
starMIPHAStatRegReplyFAAuthFail
starMIPHAStatRegReplySimulBind
starMIPHAStatRegReplyUnknownHA
starMIPHAStatRegReplyRevTunUnav
starMIPHAStatRegReplyRevTunMand

starMIPHAStatRegReplyEncapUnav
starMIPHAStatRegReplySendError
starMIPHAStatFARevocations
starMIPHAStatRegAcceptHO
starMIPHAStatRegDeniedHO
starMIPHAStatRegDiscardTotal
starMIPFAStatVpnID
starMIPFAStatVpnName
starMIPFAStatServName
starMIPFAStatAdvertSend
starMIPFAStatDiscExpiry
starMIPFAStatDiscDereg
starMIPFAStatDiscAdmin
starMIPFAStatAuthAttempt
starMIPFAStatAuthSuccess
starMIPFAStatAuthFailure
starMIPFAStatRegRecvTotal
starMIPFAStatRegRecvInitial
starMIPFAStatRegRecvRenewal
starMIPFAStatRegRecvDereg
starMIPFAStatRegAcceptTotal
starMIPFAStatRegAcceptInitial
starMIPFAStatRegAcceptRenewal
starMIPFAStatRegAcceptDereg
starMIPFAStatRegDenTotal
starMIPFAStatRegDenInitial
starMIPFAStatRegDenRenewal
starMIPFAStatRegDenDereg
starMIPFAStatRegDiscardTotal
starMIPFAStatRegDiscInitial
starMIPFAStatRegDiscardRenewal
starMIPFAStatRegDiscardDereg
starMIPFAStatRegRelayedTotal
starMIPFAStatRegRelayedInitial
starMIPFAStatRegRelayedRenewal
starMIPFAStatRegRelayedDereg
starMIPFAStatRegAuthFailTotal

starMIPFAStatRegAuthFailInitial
starMIPFAStatRegAuthFailRenewal
starMIPFAStatRegAuthFailDereg
starMIPFAStatRegDenPDSNTotal
starMIPFAStatRegDenPDSNInitial
starMIPFAStatRegDenPDSNRenewal
starMIPFAStatRegDenPDSNDereg
starMIPFAStatRegDenHATotal
starMIPFAStatRegDenHAInitial
starMIPFAStatRegDenHARenewal
starMIPFAStatRegDenHADereg
starMIPFAStatRegDenPDSNUnspec
starMIPFAStatRegDenPDSNTimeout
starMIPFAStatRegDenPDSNAdmin
starMIPFAStatRegDenPDSNResources
starMIPFAStatRegDenPDSNMnAuth
starMIPFAStatRegDenPDSNHAAuth
starMIPFAStatRegDenDSNTooLong
starMIPFAStatRegDenPDSNBadReq
starMIPFAStatRegDenPDSNEncapUnav
starMIPFAStatRegDenPDSNRevTunUnav
starMIPFAStatRegDenPDSNRevTunMand
starMIPFAStatRegDenHAFAAuth
starMIPFAStatRegDenHABadReq
starMIPFAStatRegDenHAMismatchID
starMIPFAStatRegDenHASimulBind
starMIPFAStatRegDenHAUnknownHA
starMIPFAStatRegDenHARevRunUnavail
starMIPFAStatRegRplRcvTotal
starMIPFAStatRegRplRcvTotalRly
starMIPFAStatRegRplRcvErrors
starMIPFAStatRegRplRcvInitial
starMIPFAStatRegRplRcvInitialRly
starMIPFAStatRegRplRcvRenewal
starMIPFAStatRegRplRcvRenewalRly
starMIPFAStatRegRplRcvDereg
starMIPFAStatRegRplRcvDeregRly

starMIPFAStatRegRplSentTotal
starMIPFAStatRegRplSentAcceptReg
starMIPFAStatRegRplSentAcceptDereg
starMIPFAStatRegRplSentBadReq
starMIPFAStatRegRplSentTooLong
starMIPFAStatRegRplSentMnAuthFail
starMIPFAStatRegRplSentHAAuthFail
starMIPFAStatRegRplSentAdminProhib
starMIPFAStatRegRplSentNoResources
starMIPFAStatRegRplSentRevTunUnav
starMIPFAStatRegRplSentRevTunMand
starMIPFAStatRegRplSentSendErrors
starMIPFAStatRegDenPDSNBadReply
starMIPFAStatRegDenPDSNMissNAI
starMIPFAStatRegDenPDSNMissHomeAgent
starMIPFAStatRegDenPDSNMissHomeAddr
starMIPFAStatRegDenPDSNUnknChallenge
starMIPFAStatRegDenPDSNMissChallenge
starMIPFAStatRegDenPDSNStaleChallenge
starMIPFAStatRegDenPDSNMNTooDistant
starMIPFAStatRegDenPDSNStyleUnavail
starMIPFAStatRegDenPDSNHANetUnreach
starMIPFAStatRegDenPDSNHAHostUnreach
starMIPFAStatRegDenPDSNHAPortUnreach
starMIPFAStatRegDenPDSNHAUnreach
starMIPFAStatRegDenPDSNInvCOA
starMIPFAStatRegReqSentInitTotal
starMIPFAStatRegReqSentInitResend
starMIPFAStatRegReqSentRenewTotal
starMIPFAStatRegReqSentRenewResend
starMIPFAStatRegReqSentDeregTotal
starMIPFAStatRegReqSentDeregResend
starMIPFAStatRegRplSentMNTooDistant
starMIPFAStatRegRplSentInvCOA
starMIPFAStatRegRplSentHANetUnreach
starMIPFAStatRegRplSentHAHostUnreach
starMIPFAStatRegRplSentHAPortUnreach

starMIPFAStatRegRplSentHAUnreach
starMIPFAStatRegRplSentRegTimeout
starMIPFAStatRegRplSentMissNAI
starMIPFAStatRegRplSentMissHomeAgent
starMIPFAStatRegRplSentMissHomeAddr
starMIPFAStatRegRplSentUnknChallenge
starMIPFAStatRegRplSentMissChallenge
starMIPFAStatRegRplSentStaleChallenge
starMIPFAStatRegRplSentBadReply
starRPStatVpnID
starRPStatVpnName
starRPStatServName
starRPRegRecvTotal
starRPRegAcceptTotal
starRPRegDeniedTotal
starRPRegDiscardTotal
starRPRegAcceptInitial
starRPRegAcceptIntraPDSN
starRPRegAcceptInterPDSN
starRPRegDeniedInitial
starRPRegAcceptRenew
starRPRegDeniedRenew
starRPRegAcceptDereg
starRPRegDeniedDereg
starRPRegSendError
starRPRegHashError
starRPRegDecodeError
starRPRegUnhandled
starRPRegAirlinkSeqError
starRPRegDenyUnspec
starRPRegDenyAdminProhib
starRPRegDenyNoResource
starRPRegDenyAuth
starRPRegDenyMismatchID
starRPRegDenyBadRequest
starRPRegDenyUnknownPDSN
starRPRegDenyRevTunUnav

starRPRegDenyRevTunReq
starRPRegDenyUnrecogVend
starRPRegUpdTotal
starRPRegUpdAccept
starRPRegUpdDenied
starRPRegUpdUnack
starRPRegUpdTrans
starRPRegUpdRetrans
starRPRegUpdReceived
starRPRegUpdDiscard
starRPRegUpdSendError
starRPRegUpdUplyrInit
starRPRegUpdOther
starRPRegUpdHandoff
starRPRegUpdDenyUnspec
starRPRegUpdDenyAdminProhib
starRPRegUpdDenyAuth
starRPRegUpdDenyMismatchID
starRPRegUpdDenyBadRequest
starRPSecViolations
starRPSecBadAuth
starRPSecBadID
starRPSecBadSpi
starRPSecMissingMnHAAuth
starRPSecMissingRegUpdate
starRPRegRecvInitial
starRPRegAcceptActvStartIntraPDSN
starRPRegAcceptActvStopIntraPDSN
starRPRegRecvRenew
starRPRegActvStartRenew
starRPRegActvStopRenew
starRPRegRecvDereg
starRPRegAcceptActvStopDereg
starRPDiscSessAbsent
starRPDiscNoMemory
starRPDiscMalformed
starRPDiscAuthFail

starRPDiscInternalBounce
starRPDiscInpuQueueExceeded
starRPDiscMismatchedId
starRPDiscInvPacketLen
starRPDiscMisc
starSubContext
starSubMSID
starSubName
starSubTimerDuration
starSubLongDurTimeoutAction
starSubSetupTime
starSubHomeAddr
starSubHomeAddrv6
starEISServerVPNName
starThreshMeasuredPct
starThreshPct
starThreshMeasuredInt
starThreshInt
starThreshMeasuredMB
starThreshMB
starThreshMeasuredGB
starThreshGB
starPortType
starPortTypeDescr
starPortAdminState
starPortOperState
starPortOperMode
starPortLinkState
starRedundantPortSlot
starRedundantPortNum
starPortRXBytes
starPortTXBytes
starPortRXFrames
starPortTXFrames
starPortRxDiscards
starPortTxDiscards
starPortRxErrors

starPortTxErrors
starIPPoolVpnID
starIPPoolContext
starIPPoolGroup
starIPPoolName
starIPPoolType
starIPPoolState
starIPPoolStartAddr
starIPPoolMaskorEndAddr
starIPPoolPriority
starIPPoolUsed
starIPPoolHold
starIPPoolRelease
starIPPoolFree
starLicensedSessions
starCurrentSessions
starDiameterVpnName
starDiameterPeerAddr
starDiameterEndpointName
starInterfaceIPaddress
starOSPFNeighborRouterID
starOSPFFromState
starOSPFToState
starDiameterEncoderString
starDiameterECode
starDiameterPeerAddrIpv6
starContFiltCFUpgradeFilename
starContFiltCFUpgradeErrorCode
starBLUpgradeFilename
starBLUpgradeErrorCode
starDynPkgFilename
starDynCFErrorCode
starDynPkgUpgradeFilename
starDynCFUpgradeErrorCode
starEGTPVpnName
starEGTPServName
starEGTPInterfaceType

starEGTPSelfPort
starEGTPSelfAddr
starEGTPPeerPort
starEGTPPeerAddr
starEGTPPeerOldRstCnt
starEGTPPeerNewRstCnt
starEGTPPeerSessCnt
starEGTPFailureReason
starGSSCDRLossConfigured
starGSSCDRLossMeasured
starSessGGSNVpnName
starSessGGSNServName
starSessGGSNPeerPort
starSessGGSNPeerAddr
starSessGGSNImsi
starSessGGSNSubsName
starSessGGSNAPNName
starL2TPLocalTunnelID
starL2TPPeerTunnelID
starL2TPContextName
starL2TPServiceName
starL2TPServiceTypeName
starL2TPLocalAddress
starL2TPPeerAddress
starSessSub1Context
starSessSub1NAI
starSessSub1MSID
starSessSub1IpAddr
starSessSub1LastResult
starSessSub1ServiceName
starSessSub1HAIpAddr
starSessSub1PeerIpAddr
starSessSub1InPackets
starSessSub1InPacketsDropped
starSessSub1InBytes
starSessSub1OutPackets
starSessSub1OutPacketsDropped

starSessSub1OutBytes
starSessSub1Activity
starSessSub1State
starSessSub1CallID
starSessSub1ConnectTime
starSessSub1CallDuration
starSessSub1TimeIdle
starSessSub1AccessType
starSessSub1AccessTech
starSessSub1LinkStatus
starSessSub1NetworkType
starSessSub1CarrierID
starSessSub1ESN
starSessSub1GMTTimezoneOffset
starSessSub1SessMgr
starSessSub1RemoteIPAddr
starSessSub1Card
starSessSub1CPU
starSessSub1TimeIdleLeft
starSessSub1TimeLeft
starSessSub1TimeLongDurLeft
starSessSub1LongDurAction
starSessSub1AlwaysOn
starSessSub1IPPoolName
starSessSub1VLANID
starSessSub1LNSIPAddr
starSessSub1ProxyMIP
starSessSub1GGSNMIP
starSessSub1HomeAgentIpAddr
starSessSub1LocalIPAddr
starSessSub1FAServiceName
starSessSub1FAVPNName
starSessSub1SourceVPN
starSessSub1DestVPN
starSessSub1AAAVPN
starSessSub1AAADomain
starSessSub1AAAStart

starSessSub1AAAStop
starSessSub1AAAInterim
starSessSub1AcctSessionID
starSessSub1AAARadiusGroup
starSessSub1AAARadiusAuthServerIPAddr
starSessSub1AAARadiusAcctServerIPAddr
starSessSub1NASIPAddr
starSessSub1NexthopIPAddr
starSessSub1ActiveInACL
starSessSub1ActiveOutACL
starSessSub1ECSRulebase
starSessSub1InPlcyGrp
starSessSub1OutPlcyGrp
starSessSub1DownTrafPolState
starSessSub1DownCommDataRate
starSessSub1DownPeakDataRate
starSessSub1DownBurstSize
starSessSub1DownExceedAction
starSessSub1DownViolateAction
starSessSub1DownExceed
starSessSub1DownViolate
starSessSub1UpTrafPolState
starSessSub1UpCommDataRate
starSessSub1UpPeakDataRate
starSessSub1UpBurstSize
starSessSub1UpExceedAction
starSessSub1UpViolateAction
starSessSub1UpExceed
starSessSub1UpViolate
starSessSub1L3TunnelingState
starSessSub1L3TunLocalIPAddr
starSessSub1L3TunRemoteIPAddr
starSessSub1AddrViaDHCP
starSessSub1DHCPServName
starSessSub1DHCPServIPAddr
starSessSub1AccessLinkIPFrag
starSessSub1IgnoreDFBit

starSessSub1MIPGratARPMode

starSessSub1ExtInlSrvrProc

starSessSub1ExtInlSrvrIngrIPAddr

starSessSub1ExtInlSrvrIngrVLANTag

starSessSub1ExtInlSrvrEgrIPAddr

starSessSub1ExtInlSrvrEgrVLANTag

starSessSub1ExtInlSrvrVPNName

starSessSub1RadAcctMode

starSessSub1InBytesDropped

starSessSub1OutBytesDropped

starSessSub1PeakBPSTx

starSessSub1PeakBPSRx

starSessSub1AveBPSTx

starSessSub1AveBPSRx

starSessSub1SustBPSTx

starSessSub1SustBPSRx

starSessSub1PeakPPSTx

starSessSub1PeakPPSRx

starSessSub1AvePPSTx

starSessSub1AvePPSRx

starSessSub1SustPPSTx

starSessSub1SustPPSRx

starSessSub1ActivePctstarSessSub1IPv4BadHdr

starSessSub1IPv4TtlExceeded

starSessSub1IPv4FragSent

starSessSub1IPv4FragFail

starSessSub1IPv4InACLDrop

starSessSub1IPv4OutACLDrop

starSessSub1IPv4InCSSDownDrop

starSessSub1IPv4OutCSSDownDrop

starSessSub1IPv4OutXOFFDropPkt

starSessSub1IPv4OutXOFFDropByte

starSessSub1IPv4SrcViolstarSessSub1IPv4ProxyDNSRedir
starSessSub1IPv4SrcProxyDNSPThru

starSessSub1IPv4ProxyDNSDrop

starSessSub1IPv4SrcViolNoAcct

starSessSub1IPv4SrcViolIgnored

starSessSub1ExtInlSrvrTxPkt
starSessSub1ExtInlSrvrRxPkt
starSessSub1IPv4ICMPDropPkt
starSessSub1TunnelType
starSessSub1IPSECTunDownDropPkt
starSessSub1IPSECFlowID
starSessSub1DormancyTotal
starSessSub1HandoffTotal
starSessSub1AccessFlows
starSessSub1TFT
starSessSub1NASPort
starSessSub1AcctSessionID
starSessSub1CorrID
starSessSub1L2TPPeerIPAddr
starSessSub1IPv4EarlyPDURecv
starIPSECContextName
starIPSECGroupName
starIPSECTunLocalIPAddr
starIPSECTunRemoteIPAddr
starIPSECPolicyName
starIPSECDynPolicyType
starIPSECDynPolicyPayloadType
starIPSECLocalGateway
starIPSECRemoteGateway
starSIPRouteVpnName
starSIPRouteVmgName
starSIPRouteAsName
starSIPRouteDestPartyNum
starSIPRouteReqNum
starSIPRouteServerVpnName
starSIPRouteServerVmgName
starSIPRouteServerAsName
starSIPRouteServerIpAddr
starVIMServiceVpnName
starVIMServiceFMDMaxCallRate
starVIMServiceFMDContinuousLoadCount
starGSSClusterName

starGSSClusterNodeName
starGSSClusterRgName
starGSSClusterRsName
starGSSClusterNodeState
starGSSClusterPrevOnlineNode
starGSSClusterFromNode
starGSSClusterToNode
starGSSDiskPath
starGSSTransportPath
starGSSIPMPGroupName
starGSSInterfaceName
starRPServiceOptionCalls
starPCFStatVpnName
starPCFStatRxPkts
starPCFStatTxPkts
starPCFStatRxBytes
starPCFStatTxBytes
starPCFStatTotalSessions
starPCFStatCurrentSessions
starPCFStatCurrentActiveSessions
starPCFStatCurrentDormantSessions
starPCFStatCurrentSIPConnected
starPCFStatCurrentMIPConnected
starPCFStatCurrentPMIPConnected
starPCFStatCurrentL2TPLACConnected
starPCFStatCurrentOtherConnected
starPDIFSysStatus
starPDIFSysNumService
starPDIFSysSessCurrent,
starPDIFSysSessCurrActive
starPDIFSysSessCurrDormant
starPDIFSysSessTtlSetup
starPDIFSysChildSACurrent
starPDIFVpnID
starPDIFVpnName
starPDIFServName
starPDIFStatus

starPDIFSessCurrent
starPDIFSessRemain
starPDIFSessCurrentActive
starPDIFSessCurrentDormant
starPDIFSessCurrentIpv6Active
starPDIFSessCurrentIpv6Dormant
starPDIFSessCurrentIpv4Active
starPDIFSessCurrentIpv4Dormant
starPDIFBindIpAddress
starPDIFBindIpPort
starPDIFBindSlot
starPDIFBindPort
starSessSGSNVpnNam
starSessSGSNServName
starSessSGSNMcc,
starSessSGSNMnc,
starSessSGSNRncId,
starSessSGSNHlrNum,
starSS7Pc,
starSS7M3UAPsId,
starSS7M3UAPspId,
starSS7MTP3LinkSetId,
starSS7MTP3LinkId,
starSS7SCTPSelfAddr,
starSS7SCTPPeerAddr
starSS7SCCTPSelfPort
starSCTPPeerPort
starSccpSsn,
starSGTPVpnName,
starSGTPServName,
starSGTPSelfAddr,
starSGTPPeerAddr
starSGTPPeerPort
starIPMSServerVpnName
starCertExpiryTime
starCertissuer
starFileApplication

starFTPServVpnName
starCSCFPeerServerVpnName,
starCSCFPeerServerSvcName,
starCSCFPeerServerListName,
starSDHOperState
starSDHPathOperState
starE1TribOperStateLOP
starE1TribOperState
starFractE1TribTimeslots
starGPRSNsvci
starGPRSBvci
starStorageDeviceType

Object Group: **starAlertGroup**

Object ID: enterprises.8164.3.1.3

Description: A collection of objects to control the rate at which traps can be generated.

Objects:
starMaxAlertsPerTime
starWindowTime
starAlertSendingEnabled

Object Group: **starAlertTrapGroup**

Object ID: enterprises.8164.3.1.4

Description: A collection of traps related to trap thresholding.

Notifications:
starAlertsDisabled
starAlertsEnabled

Object Group: **starTrapGroup**

Object ID: enterprises.8164.3.1.5

Description: A collection of objects which represent required notifications.

Objects:
starCardTempOverheat
starCardTempOK
starCardReset
starCardRebootRequest

starCardUp
starCardVoltageFailure
starCardInserted
starCardRemoved
starCardBootFailed
starCardFailed
starCardSWFailed
starCardRCCFailed
starCardMismatch
starCardFailureLEDOn
starCardFailureLEDOff
starCardPACMigrateStart
starCardPACMigrateComplete
starCardPACMigrateFailed
starCardSPCSwitchoverStart
starCardSPCSwitchoverComplete
starCardSPCSwitchoverFailed
starFanFailed
starFanRemoved
starFanInserted
starLogThreshold
starCPUBusy
starCPUMemoryLow
starCPUMemoryFailed
starCPUFailed
starCPUWatchDogExpired
starNPUARPPoolExhausted
starPowerFilterUnitFailed
starPowerFilterUnitUnavail
starPowerFilterUnitAvail
starAAAAuthServerUnreachable
starAAAAuthServerReachable
starAAAAuthServerMisconfigured
starAAAAccServerUnreachable
starAAAAccServerReachable
starAAAAccServerMisconfigured
starLogMsg
starAlertsDisabled
starAlertsEnabled
starPDSNServiceStart
starPDSNServiceStop
starHAServiceStart
starHAServiceStop
starFAServiceStart
starFAServiceStop
starCLISessionStart
starCLISessionEnd
starCritTaskFailed
starCardActive
starLACServiceStart
starLACServiceStop

starLNSServiceStart
starLNSServiceStop
starCardDown
starGGSNServiceStart
starGGSNServiceStop
starLicenseExceeded
starSubscriberLimit
starSessionRejectNoResource
starSIPServiceStart
starSIPServiceStop
starVIMServiceStart
starVIMServiceStop
starCHATCONFServiceStart
starCHATCONFServiceStop
starSIPRouteNomatch
starl3addrunreachable
starSWUpgradeStart
starSWUpgradeComplete
starSWUpgradeAborted
starBGPPeerSessionUp
starBGPPeerSessionDown
starSRPActive
starSRPStandby
starBGPPeerReachable
starBGPPeerUnreachable
starSRPAAAReachable
starSRPAAAUnreachable
starHASwitchoverInitiated
starSRPCheckpointFailure
starSRPConfigOutOfSync
starSRPConfigInSync
starGESwitchFailure
starSIPRouteServerAvailable
starSIPRouteServerUnavailable
starFMDMaxCallRateReached
starFMDCallRateUnderControl
starStorageServerCPUBusy
starStorageServerCPUNormal
starStorageServerDiskSpaceLow
starStorageServerDiskSpaceOK
starCardSPOFAlarm
starCardSPOFClear
starStorageServerOldGcdrPending
starStorageServerOldGcdrCleared
starLoginFailure
starIPSGServiceStart
starIPSGServiceStop
starHAUnreachable
starHAReachable
starASNGWServiceStart
starASNGWServiceStop

starTaskFailed
starTaskRestart
starCSCFServiceStart
starCSCFServiceStop
starIPSECDynTunUp
starIPSECDynTunDown
starHeartbeat
starOverloadSystem
starOverloadSystemClear
starOverloadService
starOverloadServiceClear
starStorageServerClusterStateChange
starStorageServerClusSwitchOver
starStorageServerClusPathFail
starStorageServerClusPathOK
starStorageServerClusInterCFail
starStorageServerClusInterCOK
starStorageServerClusIntfFail
starStorageServerClusIntfOK
starStorageServerMemLow
starStorageServerMemNormal
sstarLongDurTimerExpiry
starClosedRPServiceStart
starClosedRPServiceStop
starGtpcPathFailure
starGtpuPathFailure
starManagerFailure
starEISServerAlive
starEISServerDead
starCgfAlive
starCgfDead
starBkupServerAlive
starBkupServerDead
starGgsnInitiatedUpdtFailed
starGgsnInitiatedUpdtFailed
starCongestion
starCongestionClear
starServiceLossPTACs
starServiceLossLC
starServiceLossSPIO
starIPSPAllAddrsFree
starPCFUnreachable
starDhcpAlive
starDhcpDead
starDhcpServiceStarted
starDhcpServiceStopped
starNTPPeerUnreachable
starNTPSyncLost
starL2TPTunnelDownPeerUnreachable
starCardStandby
starLicenseUnderLimit

starIPSECPriTunDown
starIPSECPriTunUp
starIPSECSecTunDown
starIPSECSecTunUp
starIPSECTunSwitchFail
starIPSECTunSwitchComplete
starNwReachServerAlive
starNwReachServerDead
starStorageServerUnackedGcdrVolPurge
starStorageServerUnackedGcdrFileGen
starNTPPeerReachable
starNTPSyncEstablished
starContFiltDBError
starContFiltDBErrorClear
starPDIFServiceStart
starBLDBError
starBLDBErrorClear
starContFiltDBUpgradeError
starContFiltDBUpgradeErrorClear
starBLDBUpgradeError
starBLDBUpgradeErrorClear
starPDIFServiceStart
starPDIFServiceStop
starSessMgrRecoveryComplete
starDiameterPeerDown
starDiameterPeerUp
starDiameterServerUnreachable
starDiameterServerReachable
starDiameterCapabilitiesExchangeSuccess
starDiameterCapabilitiesExchangeFailure
starCDRFileRemoved
starCSCFPeerServerReachable
starCSCFPeerServerUnreachable
starCLIConfigMode
starSGSNServiceStart
starSGSNServiceStop
starM3UAPCUnavailable
starM3UAPCAvailable
starM3UAPSDown,
starM3UAPSActive
starM3UAPSPDown
starM3UAPSPUp
starSCCPSspRcvd
starSCCPSspClear
starSGSNRNCReset
starSGSNHLRReset
starSGSNGtpcPathFailure
starSGSNGtpcPathFailureClear
starSGSNGtpuPathFailure
starSGSNGtpuPathFailureClear
starMTP3LinkOutOfService

starMTP3LinkInService
starMTP3LinkSetUnAvailable
starMTP3LinkSetAvailable
starSCTPAssociationFail
starSCTPAssociationEstablished
starSCTPPathDown
starSCTPPathUp,
starMTP3PCUnavailable
starMTP3PCAvailable
starSS7PcUnavailable
starSS7PCAvailable
starSS7PCCongested
starSS7PCCongestionCleared
starPHSGWServiceStart
starPHSGWServiceStop
starM3UAPSPCongested
starM3UAPSPCongestionCleared
starStorageFailed
starRaidFailed
starRaidStarted
starRaidDegraded
starRaidRecovered
starASNPCServiceStart
starPDGServiceStart
starPDGServiceStop
starDiameterIpv6PeerDown
starDiameterIpv6PeerUp
starIPMSServerUnreachable
starIPMSServerReachable
starCertShortLifetime
starServiceLossPTACsClear
starServiceLossLCClear
starOSPFv3NeighborDown
starOSPFv3NeighborFull
starServiceLossSPIOClear
starStorageServerCDRLoss
starCertExpired
starCertValid
starFTPPushFail
starFTPServSwitch
starThreshCPUUtilization
starThreshClearCPUUtilization
starThreshCPUMemory
starThreshClearCPUMemory
starThreshLicence
starThreshClearLicence
starThreshSubscriberTotal
starThreshClearSubscriberTotal
starThreshSubscriberActive
starThreshClearSubscriberActive
starThreshPortRxUtil

starThreshClearPortRxUtil
starThreshPortTxUtil
starThreshClearPortTxUtil
starThreshPortHighActivity
starThreshClearPortHighActivity
starThreshAAAAuthFail
starThreshClearAAAAuthFail
starThreshAAAAuthFailRate
starThreshClearAAAAuthFailRate
starThreshAAAAcctFail
starThreshClearAAAAcctFail
starThreshAAAAcctFailRate
starThreshClearAAAAcctFailRate
starThreshAAARetryRate
starThreshClearAAARetryRate
starThreshCallSetup
starThreshClearCallSetup
starThreshCallSetupFailure
starThreshClearCallSetupFailure
starThreshCallRejectNoResource
starThreshClearCallRejectNoResource
starThreshPacketsFilteredDropped
starThreshClearPacketsFilteredDropped
starThreshPacketsForwarded
starThreshClearPacketsForwarded
starThreshSessCPUThroughput
starThreshClearSessCPUThroughput
starThreshIPPoolAvail
starThreshClearIPPoolAvail
starThreshCPUUtilization10Sec
starThreshClearCPUUtilization10Sec
starThreshCPULoad
starThreshClearCPULoad
starThreshCPUMemUsage
starThreshClearCPUMemUsage
starThreshPDSNSessions
starThreshClearPDSNSessions
starThreshGGSNSessions
starThreshClearGGSNSessions
starThreshHASessions
starThreshClearHASessions
starThreshLNSSessions
starThreshClearLNSSessions
starThreshPerServicePDSNSessions
starThreshClearPerServicePDSNSessions
starThreshPerServiceGGSNSessions
starThreshClearPerServiceGGSNSessions
starThreshPerServiceHASessions
starThreshClearPerServiceHASessions
starThreshPerServiceLNSSessions
starThreshClearPerServiceLNSSessions

starThreshIPPoolHold
starThreshClearIPPoolHold
starThreshIPPoolUsed
starThreshClearIPPoolUsed
starThreshIPPoolRelease
starThreshClearIPPoolRelease
starThreshIPPoolFree
starThreshClearIPPoolFree
starThreshAAAAcctArchive
starThreshClearAAAAcctArchive
starThreshPortSpecRxUtil
starThreshClearPortSpecRxUtil
starThreshPortSpecTxUtil
starThreshClearPortSpecTxUtil
starThreshHACallSetupRate
starThreshClearHACallSetupRate
starThreshHASvcCallSetupRate
starThreshClearHASvcCallSetupRate
starThreshHASvcRegReplyError
starThreshClearHASvcRegReplyError
starThreshHASvcReregReplyError
starThreshClearHASvcReregReplyError
starThreshHASvcDeregReplyError
starThreshClearHASvcDeregReplyError
starThreshFASvcRegReplyError
starThreshClearFASvcRegReplyError
starThreshPDSNCallSetupRate
starThreshClearPDSNCallSetupRate
starThreshPDSNSvcCallSetupRate
starThreshClearPDSNSvcCallSetupRate
starThreshPDSNSvcA11RRPFailure
starThreshClearPDSNSvcA11RRPFailure
starThreshPDSNSvcA11RRQMsgDiscard
starThreshClearPDSNSvcA11RRQMsgDiscard
starThreshPDSNSvcA11RACMsgDiscard
starThreshClearPDSNSvcA11RACMsgDiscard
starThreshPDSNSvcA11PPPSendDiscard
starThreshClearPDSNSvcA11PPPSendDiscard
starThreshAAAMgrQueue
starThreshClearAAAMgrQueue
starThreshCPUOrbsWarn
starThreshClearCPUOrbsWarn
starThreshCPUOrbsCritical
starThreshClearCPUOrbsCritical
starThreshRPSetupFailRate
starThreshClearRPSetupFailRate
starThreshPPPSetupFailRate
starThreshClearPPPSetupFailRate
starThreshStorageUtilization
starThreshClearStorageUtilization
starThreshClearStorageUtilization

starThreshDCCAProtocolErrors
starThreshClearDCCAProtocolErrors
starThreshDCCABadAnswers
starThreshClearDCCABadAnswers
starThreshDCCAUnknownRatingGroup
starThreshClearDCCAUnknownRatingGroup
starThreshDCCARatingFailed
starThreshClearDCCARatingFailed
starThreshIPSECIKERequests
starThreshClearIPSECIKERequests
starThreshIPSECIKEFailures
starThreshClearIPSECIKEFailures
starThreshIPSECIKEFailRate
starThreshClearIPSECIKEFailRate
starThreshIPSECTunSetup
starThreshClearIPSECTunSetup
starThreshIPSECTunEstabl
starThreshClearIPSECTunEstabl
starThreshIPSECCallReqRej
starThreshClearIPSECCallReqRej
starThreshCSCFSvcRouteFailure
starThreshClearCSCFSvcRouteFailure
starThreshContFiltRating
starThreshClearContFiltRating
starThreshContFiltBlock
starThreshClearContFiltBlock
starThreshCDRFileSpace
starThreshClearCDRFileSpace
starThreshEDRFileSpace
starThreshClearEDRFileSpace
starThreshPDIFCurrSess
starThreshClearPDIFCurrSess
starThreshPDIFCurrActSess
starThreshClearPDIFCurrActSess
starThreshCDRFlowControl
starThreshSGSNSessions
starThreshClearSGSNSessions
starThreshPerServiceSGSNSessions
starThreshClearPerServiceSGSNSessions
starThreshSGSNPdpSessions
starThreshClearSGSNPdpSessions
starThreshPerServiceSGSNPdpSessions
starThreshClearPerServiceSGSNPdpSessions
starThreshClearCDRFlowControl
starThreshASNGWSessTimeout
starThreshClearASNGWSessTimeout
starThreshASNGWSessSetupTimeout
starThreshClearASNGWSessSetupTimeout
starThreshASNGWAuthFail
starThreshClearASNGWAuthFail
starThreshASNGWR6InvNai

starThreshClearASNGWR6InvNai
starThreshASNGWMaxEAPRetry
starThreshClearASNGWMaxEAPRetry
starThreshASNGWEntryDenial
starThreshClearASNGWEntryDenial
starThreshASNGWHandoffDenial
starThreshClearASNGWHandoffDenial
starThreshASNGWSessions
starThreshClearASNGWSessions
starThreshPerServiceASNGWSessions
starThreshClearPerServiceASNGWSessions
starThreshPHSPCSessSetupTimeout
starThreshClearPHSPCSessSetupTimeout
starThreshPHSPCSleepModeTimeout
starThreshClearPHSPCSleepModeTimeout
starThreshPHSPCSmEntryDenial
starThreshClearPHSPCSmEntryDenial
starThreshFWDosAttack
starThreshClearFWDosAttack
starThreshFWDropPacket
starThreshClearFWDropPacket
starThreshFWDenyRule
starThreshClearFWDenyRule
starThreshFWNoRule
starThreshClearFWNoRule
starThreshPHSGWSessTimeout
starThreshClearPHSGWSessTimeout
starThreshPHSGWSessSetupTimeout
starThreshClearPHSGWSessSetupTimeout
starThreshPHSGWAuthFail
starThreshClearPHSGWAuthFail
starThreshPHSGWMaxEAPRetry
starThreshClearPHSGWMaxEAPRetry
starThreshPHSGWNWEntryDenial
starThreshClearPHSGWNWEntryDenial
starThreshPHSGWHandoffDenial
starThreshMeasuredInt
starSRPConnDown
starSRPConnUp
starSDHSectionDown
starSDHSectionUp
starSDHPathHopDown
starSDHPathHopUp
starSDHLopDown
starSDHLopUp
starThreshNAPTPortChunks,
starThreshClearNAPTPortChunks
starThreshGPRSSessions
starThreshClearGPRSSessions
starThreshPerServiceGPRSSessions
starThreshClearPerServiceGPRSSessions

starThreshGPRSPdpSessions
starThreshClearGPRSPdpSessions
starThreshPerServiceGPRSPdpSessions
starThreshClearPerServiceGPRSPdpSessions
starPortDown
starPortUp
starOSPFNeighborDown
starOSPFNeighborFull
starBSReachable
starBSUnreachable
starSystemStartup
starASNPCserviceStart
starASNPCServiceStop
starDiameterIPv6PeerDown
starDiameterIPv6PeerUp
starIPMSServerUnreachable
starIPMSServerReachable
starCertShortLifetime
starCertExpired
starCertValid
starFTPPushFail
starFTPServSwitch
starSDHSectionDown,
starSDHSectionUp
starSDHPathHopDown
starSDHPathHopUp
starSDHLopDown
starSDHLopUp
starSDHE1TribDown
starSDHE1TribUp
starSDHFractE1LMIDown
starSDHFractE1LMIUp
starGPRSServiceStart
starGPRSServiceStop
starGPRSNseUp
starGPRSNsvcDown
starGPRSNsvcUp
starGPRSBvcDown
starGPRSBvcUp
starSDHE1TribUp
starSDHFractE1LMIDown
starSDHFractE1LMIUp
starPHSPCServiceStart
starPHSPCServiceStop
starPDGServiceStart,
starPDGServiceStop
starThreshPDGCurrSess
starThreshClearPDGCurrSess,
starThreshPDGCurrActSess,
starThreshClearPDGCurrActSess
starGPRSServiceStart

starGPRSServiceStop
starGPRSNseDown
starGPRSNseUp
starGPRSNsvcDown
starGPRSNsvcUp
starGPRSBvcDown
starGPRSBvcUp

Object: **starTrapObsoleteGroup**

Object ID: enterprises.8164.3.1.6

Description: A collection of objects which represent obsolete notifications.

Notifications: starCardReset
starCardFailed
starCardRCCFailed
starCardSWFailed
starCardFailureLEDOn
starCardFailureLEDOff
starLogThreshold
starThreshASNGWR6InvNai
starThreshClearASNGWR6InvNai

Object: **starChassisObsoleteGroup**

Object ID: enterprises.8164.3.1.7

Description: A collection of objects which are obsolete.

Objects:
starRPRegAcceptIntraPDSN
starSlotVoltage1dot5
starSlotVoltage1dot5LowThresh
starSlotVoltage1dot5HighThresh
starSlotVoltage1dot8
starSlotVoltage1dot8LowThresh
starSlotVoltage1dot8HighThresh
starSlotVoltage2dot5
starSlotVoltage2dot5LowThresh
starSlotVoltage2dot5HighThresh
starSlotVoltage3dot3
starSlotVoltage3dot3LowThresh
starSlotVoltage3dot3HighThresh
starSlotVoltage5dot0
starSlotVoltage5dot0LowThresh
starSlotVoltage5dot0HighThresh

starentMIB(8164).starentMIBConformance(3).starentMIBCompliances(2)

Object: **MIBCompliance2**

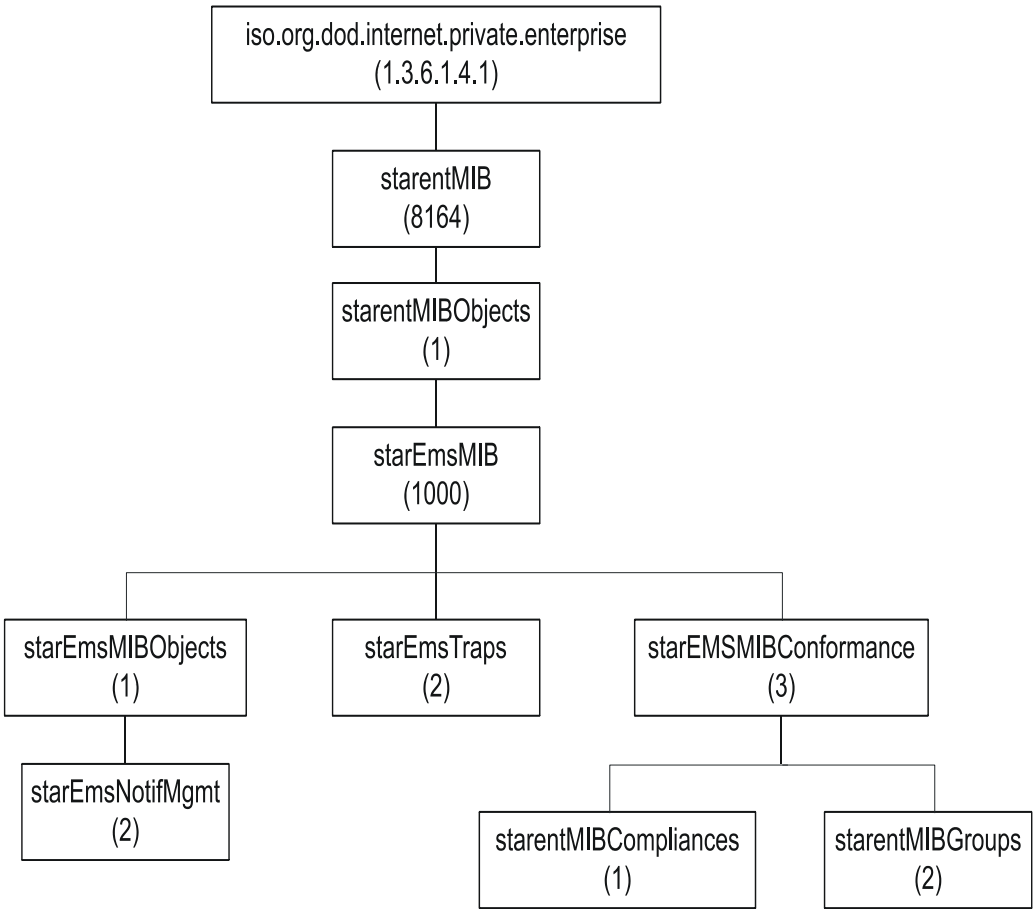
Object ID: enterprises.8164.3.2.2

Description: The statement listing compliant mandatory groups.

starChassisGroup
starAlertGroup
starAlertTrapGroup
starTrapGroup
starTrapObsoleteGroup

Chapter 4
Web Element Manager MIB

The figure that follows illustrates the hierarchical structure of the management information base (MIB) for the Web Element Manager.



MIB Textual Conventions

starentMIB(8164).starentMIBObjects(1).starentEmsMIB(1000)

starentMIB(8164).starentMIBObjects(1).starentEMSMIB(1000).starEmsMIBObjects(1)

starentMIB(8164).starentMIBObjects(1).starentEMSMIB(1000).starEmsMIBObjects(1).starEmsNotifMgmt(2)

Object:	**starEmsNotifInfo**
Object ID:	enterprises.8164.1.1000.1.2.5
Description:	A textual description of EMS notification, which potentially contains additional information (more than just the type of alarm). If the text of the message exceeds 64 bytes, the message will be truncated to 63 bytes and a '*' character will be appended to indicate the message has been truncated.
Syntax:	DisplayString (SIZE (1..64))
Access:	Read-only

Object:	**starEmsNotifRaisedTime**
Object ID:	enterprises.8164.1.1000.1.2.6
Description:	This object indicates the time when this notification was generated.
Syntax:	TimeStamp
Access:	Read-only

Object:	**starEmsProcMonThreshold**
Object ID:	enterprises.8164.1.1000.1.2.7
Description:	This object indicates the current threshold value of process monitoring.
Syntax:	

DisplayString (SIZE (1..10))

Access: Read-only

Object: starEmsInterfaceAddr

Object ID: enterprises.8164.1.1000.1.2.8

Description: The object indicates the Interface address of host machine where EMS server is running

Syntax: InetAddress

Access: Read-only

Object: starEmsInterfaceName

Object ID: enterprises.8164.1.1000.1.2.9

Description: This object indicates the interface name of host machine where EMS server is running.

Syntax: DisplayString (SIZE (1..64))

Access: Read-only

Object: starEmsIMGAddr

Object ID: enterprises.8164.1.1000.1.2.10

Description: The object indicates the IP address of IMG.

Syntax: InetAddress

Access: Read-only

Object: starEmsFtpFileName

Object ID: enterprises.8164.1.1000.1.2.11

Description: This object indicates name of the file which FTP'd and then deleted from the IMG.

Syntax: DisplayString (SIZE (1..64))

Access: Read-only

Object: starEmsIMGState

Object ID:	enterprises.8164.1.1000.1.2.12
Description:	IMG state. unreachable(0) IMG is ICMP unreachable active(1) IMG is CORBA reachable inactive(1) IMG is CORBA unreachable reachable(0) IMG is ICMP reachable
Syntax:	INTEGER
Access:	Read-only
Enumeration:	unreachable(0) active(1) inactive(2) reachable(3)

Object: starEmsBulkStatFileXferTime

Object ID:	enterprises.8164.1.1000.1.2.13
Description:	The configured value of a Bulkstat file transfer in minutes.
Syntax:	INTEGER(1..999999)
Access:	Read-only

Object: starEmsXMLFtpFileName

Object ID:	enterprises.8164.1.1000.1.2.14
Description:	This object indicates name of the BulkStat XML file which is to be FTPed on the NMS. ***IMPORTANT:*** This attribute is obsolete.
Syntax:	DisplayString (SIZE (1..256))
Access:	Read-only

Object: starEmsXMLFtpDestAddr

Object ID:	enterprises.8164.1.1000.1.2.15
Description:	This object indicates destination IP address (NMS) for BulkStat XML file FTP.

Syntax: InetAddress

Access: Read-only

Object: starEmsXMLFtpDestPath

Object ID: enterprises.8164.1.1000.1.2.16

Description: This object indicates destination path where BulkStat XML file is to be FTPed.

Syntax: DisplayString (SIZE (1..1024))

Access: Read-only

Object: starEmsIMGPreviousState

Object ID: enterprises.8164.1.1000.1.2.17

Description: IMG state. unmanageable(0) IMG is not CORBA reachable manageable(1) IMG is CORBA reachable

Syntax: INTEGER

Access: Read-only

Enumeration: unmanageable(0)
manageable(1)

Object: starEmsIMGName

Object ID: enterprises.8164.1.1000.1.2.18

Description: The object indicates the name of IMG.

Syntax: DisplayString (SIZE (1..64))

Access: Read-only

Object: starEmsPortMonThreshold

Object ID: enterprises.8164.1.1000.1.2.19

Description: This object indicates the configured threshold value of port monitoring.

Syntax: DisplayString (SIZE (1..20))

Access:	Read-only

Object: starEmsPortMonCurrent

Object ID:	enterprises.8164.1.1000.1.2.20
Description:	This object indicates the current threshold value of port monitoring.
Syntax:	DisplayString (SIZE (1..20))
Access:	Read-only

Object: starEmsTotalPendingEvts

Object ID:	enterprises.8164.1.1000.1.2.21
Description:	This object indicates the no of pending events for monitor in server queue.
Syntax:	INTEGER(1..100000)
Access:	Read-only

Object: starEmsMaxLimit

Object ID:	enterprises.8164.1.1000.1.2.22
Description:	This object indicates the limit of server queue to store pending events.
Syntax:	InetAddress
Access:	Read-only

Object: starEmsClientAddr

Object ID:	enterprises.8164.1.1000.1.2.23
Description:	The object indicates the IP address of EMS Client.
Syntax:	DisplayString (SIZE (1..256))
Access:	Read-only

Object: starEmsMonOldEvtTimeStamp

Object ID:	enterprises.8164.1.1000.1.2.24

Description: This object indicates the timestamp for last Monitor Pending Event.

Syntax: DisplayString (SIZE (1..256))

Access: Read-only

Object: starEmsMonitorType

Object ID: enterprises.8164.1.1000.1.2.25

Description: This object indicates the monitor type.

Syntax: INTEGER

Access: Read-only

Enumeration: protocol(0)
subscriber(1)

Object: starEmsMonitorUserName

Object ID: enterprises.8164.1.1000.1.2.26

Description: This object indicates the User name.

Syntax: DisplayString (SIZE (1..64))

Access: Read-only

Object: starEmsDevicePath

Object ID: enterprises.8164.1.1000.1.2.27

Description: This object indicates the Device name.

Syntax: DisplayString (SIZE (1..1024))

Access: Read-only

Object: starEmsPrevHostName

Object ID: enterprises,8164.1.1000.1.2.28

Description: This object indicates the name of the previous host running EMS before failover.

Syntax: DisplayString (SIZE (1..64))

Access: Read-only

Object: starEmsCurrHostName

Object ID: enterprises,8164.1.1000.1.2.29

Description: This object indicates the name of the current host running EMS.

Syntax: DisplayString (SIZE (1..64))

Access: Read-only

Object: starEmsP2PProtocolType

Object ID: enterprises,8164.1.1000.1.2.30

Description: This object indicates the protocol type.

Syntax: INTEGER

Access: Read-only

Enumeration:
ip(1)
tcp(2)
udp(3)
http(4)
htpps(5)
ftp(6)
ftpcontrol(7)
ftpdata(8)
wtp(9)
wsp(10)
dns(11)
icmp(12)
pop3(13)
sip(14)
sdp(15)
smtp(16)
mms(17)

filetransfer(18)
rtp(19)
rtsp(20)
imap(21)
totalp2p(22)
p2punknown(23)
p2pskype(24)
p2pbittorrent(25)
p2pedonkey(26)
p2pmsn(27)
p2pyahoo(28)
p2pporb(29)
p2pfasttrack(30)
p2pslingbox(31)
p2pvcast(32)
p2pgnutella(33)

Object: **starEmsP2PProtocolVal**

Object ID: enterprises,8164.1.1000.1.2.31

Description: This object indicates the protocol value.

Syntax: INTEGER

Access: Read-only

Enumeration: uplinkbytes(0)
downlinkbytes(1)
totalbytes(2)
uplinkpkts(3)
downlinkpkts(4)
totalpkts(5)
uplinkbytespercent(6)
downlinkbytespercent(7)
totalbytespercent(8)
uplinkpktspercent(9)
downlinkpktspercent(10)
totalpktspercent(11)

Object:	starEmsSyslogLoggedTime
Object ID:	enterprises,8164.1.1000.1.2.32
Description:	This object indicates the logged time for the syslog message.
Syntax:	TimeStamp
Access:	Read-only

Object:	starEmsSyslogFacility
Object ID:	enterprises,8164.1.1000.1.2.33
Description:	This object indicates the facility of syslog message.
Syntax:	DisplayString (SIZE (1..64))
Access:	Read-only

Object:	starEmsSyslogPriority
Object ID:	enterprises,8164.1.1000.1.2.34
Description:	This object indicates the syslog message priority.
Syntax:	DisplayString (SIZE (1..64))
Access:	Read-only

Object:	starEmsSyslogHostName
Object ID:	enterprises,8164.1.1000.1.2.35
Description:	This object indicates the hostname.
Syntax:	DisplayString (SIZE (1..64))
Access:	Read-only

Object:	starEmsSyslogKeyword
Object ID:	enterprises,8164.1.1000.1.2.36
Description:	This object indicates the keywords detected in the syslog message.

Syntax: DisplayString (SIZE (1..64))

Access: Read-only

Object: starEmsSyslogMessage

Object ID: enterprises,8164.1.1000.1.2.37

Description: This object indicates the syslog message contents.

Syntax: DisplayString (SIZE (1..1024))

Access: Read-only

Object: starEmsSyslogFilePath

Object ID: enterprises,8164.1.1000.1.2.38

Description: This object indicates the syslog message file path.

Syntax: DisplayString (SIZE (1..1024))

Access: Read-only

Object: starEmsDBName

Object ID: enterprises,8164.1.1000.1.2.39

Description: This object indicates the database name.

Syntax: DisplayString (SIZE (1..1024))

Access: Read-only

Object: starEmsBulkstatCounter

Object ID: enterprises,8164.1.1000.1.2.40

Description: This object indicates the bulkstat counter name.

Syntax: DisplayString (SIZE (1..1024))

Access: Read-only

Object: starEmsBulkStatRecordDetails

Object ID: enterprises,8164.1.1000.1.2.41

Description: This object indicates the bulkstat record detail information.

Syntax: DisplayString (SIZE (1..1024))

Access: Read-only

Object: starEmsBulkStatRecordTime

Object ID: enterprises,8164.1.1000.1.2.42

Description: This object indicates the bulkstat record time

Syntax: TimeStamp

Access: Read-only

Object: starEmsBulkStatThreshold

Object ID: enterprises,8164.1.1000.1.2.43

Description: This object indicates the configured threshold value of the bulkstat counter.

Syntax: INTEGER(0..100000)

Access: Read-only

Object: starEmsbulkStatCurrent

Object ID: enterprises,8164.1.1000.1.2.44

Description: This object indicates the current threshold (delta) value of the bulkstat counter.

Syntax: INTEGER(0..100000)

Access: Read-only

Object: starEMSCFMcrdbsHostAddress

Object ID: enterprises,8164.1.1000.1.2.45

Description: MCRDBS IP address

Syntax: InetAddress

Access: Read-Only

Object: starEMSCFDbType

Object ID: enterprises,8164.1.1000.1.2.46

Description: Type sfmdb(1) Starent Format Master DataBase. sfmdbinc(2) Starent Format Master DataBase Incremental. optcmdb(6) Optmized Customer Master DataBase. optcmdbinc(7) Optmized Customer Master DataBase Incremental. optcmbldb(14) Optmized Customer Master Blacklist DataBase sfunkdb(5) Starent format unknown URL database

Syntax: INTEGER {
sfmdb(1),
sfmdbinc(2),
optcmdb(6),
optcmdbinc(7),
optcmbldb(14)
sfunkdb(5)

Access: Read-Only

Object: starEmsCFSourceDbFileName

Object ID: enterprises,8164.1.1000.1.2.47

Description: This object indicates name of the file whose SFTP/Conversion is failed.

Syntax: Displaystring (SIZE(1..64))

Access: Read-Only

Object: starEMSCFCdpHostAddress

Object ID: enterprises,8164.1.1000.1.2.48

Description: CDP IP Address

Syntax: InetAddress

Access: Read-Only

Object: starEMSCFFromDbType

Object ID:

enterprises,8164.1.1000.1.2.49

Description: Type. sfmdb(1) Starent Format Master DataBase. sfmdbinc(2) Starent Format Master DataBase Incremental . blacklist(10) Blacklist DataBase. sfmbldb(11) Starent Format Master Blacklist DataBase.

Syntax: INTEGER
sfmdb(1),
sfmdbinc(2),
blacklist(10),
sfmbldb(11)

Access: Read-Only

Object: starEMSCFToDbType

Object ID: enterprises,8164.1.1000.1.2.50

Description: Databases Type optcmdb(6) Optmized Customer Master DataBase. optcmdbinc(7) Optmized Customer Master DataBase Incremental. sfmbldb(11) Starent Format Master Blacklist DataBase. optcmbldb(14) Optmized Customer Master Blacklist DataBase.

Syntax: INTEGER
optcmdb(6),
optcmdbinc(7),
sfmbldb(11),
optcmbldb(14)

Access: Read-Only

Object: starEMSCFDestDbName

Object ID: enterprises,8164.1.1000.1.2.51

Description: This object indicates the name of the destination file, used to specify the destination file created after conversion.

Syntax: DisplayString (SIZE(1..64)

Access: Read-Only

Object: starEMSCFFtpHostInfo

Object ID:

enterprises,8164.1.1000.1.2.52

Description: FTP host IP address

Syntax: DisplayString (SIZE(1..64))

Access: Read-Only

Object: starEMSBulkstatCounterValue

Object ID: enterprises,8164.1.1000.1.2.53.

Description: Bulkstat counter current value

Syntax: Integer (0..100000)

Access: Read-Only

Object: starLESSNotifRaisedTime

Object ID: enterprises,8164.1.1000.1.2.54.

Description: This object indicates the time when this notification was generated. This will be current system's time in seconds.

Syntax: Integer32

Access: accessible-for-notify

Object: starLESSNotifInfo

Object ID: enterprises,8164.1.1000.1.2.55.

Description: A textual description of Less notification, which contains additional information (more than the type of alarm).

Description: If the text of the message exceeds 64 bytes, the message be truncated to 63 bytes and a '*' character will be appended to indicate the message has been truncated.

Syntax: DisplayString (SIZE (1..64))

Access: accessible-for-notify

Object: starLESSInstance

Object ID: enterprises,8164.1.1000.1.2.56.

Description: L-ESS Application Instance no.

Syntax: Integer32

Access: accessible-for-notify

Object: starLESSNodeName

Object ID: enterprises,8164.1.1000.1.2.57.

Description: L-ESS Application node name.

Syntax: DisplayString (SIZE (1..64))

Access: accessible-for-notify

Object: starLESSApplicationType

Object ID: enterprises,8164.1.1000.1.2.58.

Description: “L-ESS Application Type (pull / push / transfer). Pull (1) is L-ESS Pull application Push (2) is L-ESS Push application Transfer (3) is L-ESS Transfer application”

Syntax: INTEGER
unknown(0)
pull(1)
push(2)
transfer(3)

Access: accessible-for-notify

Object: starLESSThreshInt

Object ID: enterprises,8164.1.1000.1.2.59.

Description: This object indicates configured value of a thresholded parameter.

Syntax: Integer32

Access: accessible-for-notify

Object: starLESSThreshMeasuredInt

Object ID: enterprises,8164.1.1000.1.2.60.

Description: This object indicates measured value of a thresholded parameter.

Syntax: Integer32

Access: accessible-for-notify

Object: starLESSRuleBaseName

Object ID: enterprises,8164.1.1000.1.2.61.

Description: The object indicates the name of the rulebase present in filename.

Syntax: DisplayString (SIZE (1..64))

Access: accessible-for-notify

Object: starLESSSTXName

Object ID: enterprises,8164.1.1000.1.2.62.

Description: The object indicates the name of the STX.

Syntax: DisplayString (SIZE (1..64))

Access: accessible-for-notify

Object: starLESSStartofMissedRange

Object ID: enterprises,8164.1.1000.1.2.63.

Description: Begining of the range within which L-ESS has missed files.

Syntax: DisplayString (SIZE (1..15))

Access: accessible-for-notify

Object: starLESSEndofMissedRange

Object ID: enterprises,8164.1.1000.1.2.64.

Description: End of the range within which L-ESS has missed files.

Syntax: DisplayString (SIZE (1..15))

Access: accessible-for-notify

Object:	**starLESSFileType**
Object ID:	enterprises,8164.1.1000.1.2.65.
Description:	The object indicates the name of the rulebase present in filename.
Syntax:	DisplayString (SIZE (1..3)
Access:	accessible-for-notify

Object:	**starLESSRemoteHostName**
Object ID:	enterprises,8164.1.1000.1.2.66.
Description:	The object indicates the name of the STX.
Syntax:	DisplayString (SIZE (1..64))
Access:	accessible-for-notify

Object:	**starLESSApplicationStart**
Object ID:	enterprises,8164.1.1000.1.2.67.
Description:	L-ESS application has started.

Objects:	**starLESSNotifRaisedTime** **starLESSNodeName** **starLESSInstance** **starLESSApplicationTyp**

Object:	**starLESSApplicationReStart**
Object ID:	enterprises,8164.1.1000.1.2.68.
Description:	L-ESS application has restarted.

Objects:	**starLESSNotifRaisedTime** **starLESSNodeName** **starLESSInstance** **starLESSApplicationType**

Object:	**starLESSApplicationStop**
Object ID:	enterprises,8164.1.1000.1.2.69.
Description:	

L-ESS application has stopped.

Objects: **starLESSNotifRaisedTime**
starLESSNodeName
starLESSApplicationType
starLESSNotifInfo

Object: **starLESSApplicationTerminated**

Object ID: enterprises,8164.1.1000.1.2.70.

Description: L-ESS application has been terminated.

Objects: **starLESSNotifRaisedTime**
starLESSNodeName
starLESSInstance
starLESSApplicationType

Object: **starLESSPullIntervalMissed**

Object ID: enterprises,8164.1.1000.1.2.71.

Description: L-ESS application has missed pull interval.

Objects: **starLESSNotifRaisedTime**
starLESSNodeName
starLESSInstance

Object: **starLESSThreshDiskUsage**

Object ID: enterprises,8164.1.1000.1.2.72.

Description: Total Disk space used is beyond configured threshold. Probable Cause: This is a user configurable threshold.

Objects: **starLESSNotifRaisedTime**
starLESSNodeName
starLESSThreshMeasuredInt
starLESSThreshInt

Object: **starLESSThreshClearDiskUsage**

Object ID: enterprises,8164.1.1000.1.2.73.

Description: Total disk used is now below configured threshold.Threshold condition is now clear.

Objects: **starLESSNotifRaisedTime**
starLESSNodeName

starLESSInstance
starLESSRuleBaseName
starLESSFileType
starLESSSTXName
starLESSStartofMissedRange
starLESSEndofMissedRange
starLESSNotifInfo

Object: **starLESSRemoteConnectionFail**

Object ID: enterprises,8164.1.1000.1.2.74.

Description: L-ESS application is unable to set up the connection with remote host. Probable Cause:No route to host, Authentication failure,HostUnrechable etc. Clear Condition: When LESS is able to setup the connection with remote host. Condition Clear Alarm: Clear alarm for this notification is starRemoteConnectionEstablished."

Object: **starLESSRemoteConnectionEstablished**

Object ID: enterprises,8164.1.1000.1.2.75.

Description: L-ESS application is now able to set up the connection with remote host. Probable Cause:Connection established with remote host ."

Objects:
starLESSNotifRaisedTime
starLESSNodeName
starLESSInstance
starLESSApplicationType
starLESSRemoteHostName

Object: **starLESSFileTransferFail**

Object ID: enterprises,8164.1.1000.1.2.76.

Description: L-ESS application is failing to transfer file. Probable Cause:This trap could be raised if pull or push process when it fails to transfer files continuously. Reasons of this failure could be network error, Disk space unavailable at destination, Destination directory unavaialble.etc.

Objects:
starLESSNotifRaisedTime
starLESSNodeName
starLESSInstance
starLESSApplicationType
starLESSRemoteHostName
starLESSFileType
starLESSNotifInfo

Object: **starLESSFileTransferComplete**

Object ID: enterprises,8164.1.1000.1.2.77.

Description: L-ESS application is now able to transfer file. Probable Cause: The problems due to which LESS was unable to transfer file have resolved and pull or push process has now restarted file transfer.

Objects:
starLESSNotifRaisedTime
starLESSNodeName
starLESSInstance
starLESSApplicationType
starLESSRemoteHostName
starLESSFileType

Object: **starLESSThreshPendingFiles**

Object ID: enterprises,8164.1.1000.1.2.78.

Description: Total pending files for this host are beyond configured threshold. Probable Cause: This is a user configurable threshold. The starLESSThreshPendingFiles notification will be generated by pull or push process when the total number of files pending for transfer in source directory are beyond configured threshold. Clear Condition: When number of pending files at source directory falls below configured threshold. Condition Clear Alarm: Clear alarm for this notification is starLESSThreshClearPendingFiles.

Objects:
starLESSNotifRaisedTime
starLESSNodeName
starLESSInstance
starLESSApplicationType
starLESSSTXName
starLESSFileType
starLESSThreshMeasuredInt
starLESSThreshInt

Object: **starLESSThreshClearPendingFiles**

Object ID: enterprises,8164.1.1000.1.2.79.

Description: Total pending files for this host are now below configured threshold. Probable Cause: This is a user configurable threshold. The starLESSThreshPendingFiles notification will be generated by pull or push process when the total number of files pending for transfer in source directory falls below configured threshold.

Objects:
starLESSNotifRaisedTime
starLESSNodeName
starLESSInstance
starLESSApplicationType
starLESSSTXName
starLESSFileType
starLESSThreshMeasuredInt
starLESSThreshInt

Object:	**starLESSNewHostFound**
Object ID:	enterprises,8164.1.1000.1.2.80.
Description:	L-ESS Transfer process has detected addition of host. Probable Cause: Operator has added host in L-ESS from which files should be transferred to destination.
Objects:	**starLESSNotifRaisedTime** **starLESSNodeName** **starLESSInstance** **starLESSApplicationType** **starLESSSTXName**
Object:	**starLESSHostRemoved**
Object ID:	enterprises,8164.1.1000.1.2.81.
Description:	L-ESS Transfer process has detected removal of existing host. Probable Cause: Operator has removed existing host in L-ESS from which L-ESS was already transferring files to destination.
Objects:	**starLESSNotifRaisedTime** **starLESSNodeName** **starLESSInstance** **starLESSApplicationType** **starLESSSTXName**
Object:	**starLESSMIBCompliance**
Object ID:	enterprises,8164.1.1000.1.2.82.
Description:	The compliance statements for entities which implement the STARNET LESS MIB.
Object:	**starLESSNotifMgmtGroup**
Object ID:	enterprises,8164.1.1000.1.2.83.
Description:	A collection of objects related with notification management on LESS.
Objects:	**starLESSNotifRaisedTime** **starLESSNotifInfo** **starLESSInstance** **starLESSNodeName** **starLESSApplicationType** **starLESSThreshMeasuredInt** **starLESSThreshInt** **starLESSRuleBaseName** **starLESSSTXName**

starLESSStartofMissedRange
starLESSEndofMissedRange
starLESSFileType
starLESSRemoteHostName

Object: **starLESSNotifGroup**

Object ID: enterprises,8164.1.1000.1.2.84.

Description: A collection of notifications.

Objects:
starLESSApplicationStart
starLESSApplicationReStart
starLESSApplicationStop
starLESSApplicationTerminated
starLESSPullIntervalMissed
starLESSThreshDiskUsage
starLESSThreshClearDiskUsage
starLESSFileMissed
starLESSRemoteConnectionFail
starLESSRemoteConnectionEstablished
starLESSFileTransferFail
starLESSFileTransferComplete
starLESSThreshPendingFiles
starLESSThreshClearPendingFiles
starLESSNewHostFound
starLESSHostRemoved

starentMIB(8164).starentMIBObjects(1).starentEmsMIB(1000)

starEmsTraps(2)

Object: **starEmsFmEmailFailed**

Object ID: enterprises.8164.1.1000.2.3

Description: This notification is generated when EMS fault management module email notification failure has occurred.

Objects:
starEmsNotifRaisedTime
starEmsNotifInfo

Object: **starEmsFmScriptFailed**

Object ID: enterprises.8164.1.1000.2.4

Description: This notification is generated when EMS fault management module script execution failure has occurred.

Objects: **starEmsNotifRaisedTime**
starEmsNotifInfo

Object: **starEmsFmSyslogFailed**

Object ID: enterprises.8164.1.1000.2.5

Description: This notification is generated when EMS fault management module syslog message logging failure has occurred.

Objects: **starEmsNotifRaisedTime**
starEmsNotifInfo

Object: **starEmsWebServerProcStart**

Object ID: enterprises.8164.1.1000.2.6

Description: This notification is generated by EMS Process Monitoring when EMS web server process comes up.

Objects: **starEmsNotifRaisedTime**

Object: **starEmsWebServerProcStop**

Object ID: enterprises.8164.1.1000.2.7

Description: This notification is generated by EMS Process Monitoring when EMS web server process goes down.

Objects: **starEmsNotifRaisedTime**

Object: **starEmsWebServerProcCPUUsageOverLimit**

Object ID: enterprises.8164.1.1000.2.8

Description: This notification is generated by EMS Process Monitoring when EMS web server process CPU usage threshold is exceeded. The starEmsThreshold varbind indicates current EMS web server process cpu usage value in percentage.

Objects: **starEmsNotifRaisedTime**
starEmsProcMonThreshold

Object: **starEmsWebServerProcCPUUsageNormal**

Object ID: enterprises.8164.1.1000.2.9

Description: This notification is generated by EMS Process Monitoring when EMS web server process cpu usage threshold comes to normal value. The starEmsThreshold varbind indicates current EMS web server process cpu usage value in percentage.

Objects: **starEmsNotifRaisedTime**
starEmsProcMonThreshold

Object: **starEmsDataBaseProcStart**

Object ID: enterprises.8164.1.1000.2.10

Description: This notification is generated by EMS Process Monitoring when EMS data base process comes up.

Objects: **starEmsNotifRaisedTime**

Object: **starEmsDataBaseProcStop**

Object ID: enterprises.8164.1.1000.2.11

Description: This notification is generated by EMS Process Monitoring when EMS data base process goes down.

Objects: **starEmsNotifRaisedTime**

Object: **starEmsDataBaseProcCPUUsageOverLimit**

Object ID: enterprises.8164.1.1000.2.12

Description: This notification is generated by EMS Process Monitoring when EMS data base process cpu usage threshold is exceeded. The starEmsThreshold varbind indicates current EMS data base process cpu usage value in percentage.

Objects: **starEmsNotifRaisedTime**
starEmsProcMonThreshold

Object: **starEmsDataBaseProcCPUUsageNormal**

Object ID: enterprises.8164.1.1000.2.13

Description: This notification is generated by EMS Process Monitoring when EMS data base process cpu usage threshold comes to normal value. The starEmsThreshold varbind indicates current EMS data base process cpu usage value in percentage.

Objects: **starEmsNotifRaisedTime**
starEmsProcMonThreshold

Object: **starEmsServerProcStart**

Object ID: enterprises.8164.1.1000.2.14

Description: This notification is generated by EMS Process Monitoring when EMS server process comes up.

Objects: **starEmsNotifRaisedTime**

Object: **starEmsServerProcStop**

Object ID: enterprises.8164.1.1000.2.15

Description: This notification is generated by EMS Process Monitoring when EMS server process goes down.

Objects: **starEmsNotifRaisedTime**

Object: **starEmsServerProcCPUUsageOverLimit**

Object ID: enterprises.8164.1.1000.2.16

Description: This notification is generated by EMS Process Monitoring when EMS server process cpu usage threshold is exceeded. The starEmsThreshold varbind indicates current EMS server process cpu usage value in percentage.

Objects: **starEmsNotifRaisedTime**
starEmsProcMonThreshold

Object: **starEmsServerProcCPUUsageNormal**

Object ID: enterprises.8164.1.1000.2.17

Description: This notification is generated by EMS Process Monitoring when EMS server process cpu usage threshold comes to normal value. The starEmsThreshold varbind indicates current EMS server process cpu usage value in percentage.

Objects: **starEmsNotifRaisedTime**
starEmsProcMonThreshold

Object: **starEmsScriptServerProcStart**

Object ID: enterprises.8164.1.1000.2.18

Description: This notification is generated by EMS Process Monitoring when EMS script server process comes up.

Objects: **starEmsNotifRaisedTime**

Object:

starEmsScriptServerProcStop

Object ID: enterprises.8164.1.1000.2.19

Description: This notification is generated by EMS Process Monitoring when EMS script server process goes down.

Objects: **starEmsNotifRaisedTime**

Object: **starEmsScriptServerProcCPUUsageOverLimit**

Object ID: enterprises.8164.1.1000.2.20

Description: This notification is generated by EMS Process Monitoring when EMS script server process cpu usage threshold is exceeded. The starEmsThreshold varbind indicates current EMS script server process cpu usage value in percentage.

Objects: **starEmsNotifRaisedTime**
starEmsProcMonThreshold

Object: **starEmsScriptServerProcCPUUsageNormal**

Object ID: enterprises.8164.1.1000.2.21

Description: This notification is generated by EMS Process Monitoring when EMS script server process cpu usage threshold comes to normal value. The starEmsThreshold varbind indicates current EMS script server process cpu usage value in percentage.

Objects: **starEmsNotifRaisedTime**
starEmsProcMonThreshold

Object: **starEmsServerDirAccessible**

Object ID: enterprises.8164.1.1000.2.22

Description: This notification is generated by EMS Process Monitoring when EMS server directory becomes accessible.

Objects: **starEmsNotifRaisedTime**

Object: **starEmsServerDirNonAccessible**

Object ID: enterprises.8164.1.1000.2.23

Description: This notification is generated by EMS Process Monitoring when EMS server directory is not accessible.

Objects: **starEmsNotifRaisedTime**

Object:	**starEmsServerDirUsageOverLimit**
Object ID:	enterprises.8164.1.1000.2.24
Description:	This notification is generated by EMS Process Monitoring when EMS server directory size usage threshold is exceeded. The starEmsThreshold varbind indicates current EMS server directory size usage value in percentage.
Objects:	**starEmsNotifRaisedTime** **starEmsProcMonThreshold**
Object:	**starEmsServerDirUsageNormal**
Object ID:	enterprises.8164.1.1000.2.25
Description:	This notification is generated by EMS Process Monitoring when EMS server directory size usage threshold is comes to normal value. The starEmsThreshold varbind indicates current EMS server directory size usage value in percentage.
Objects:	**starEmsNotifRaisedTime** **starEmsProcMonThreshold**
Object:	**starEmsDataBaseDirAccessible**
Object ID:	enterprises.8164.1.1000.2.26
Description:	This notification is generated by EMS Process Monitoring when EMS data base directory becomes accessible.
Objects:	**starEmsNotifRaisedTime**
Object:	**starEmsDataBaseDirNonAccessible**
Object ID:	enterprises.8164.1.1000.2.27
Description:	This notification is generated by EMS Process Monitoring when EMS data base directory is not accessible.
Objects:	**starEmsNotifRaisedTime**
Object:	**starEmsDataBaseDirUsageOverLimit**
Object ID:	enterprises.8164.1.1000.2.28
Description:	This notification is generated by EMS Process Monitoring when EMS data base directory size usage threshold is exceeded. The starEmsThreshold varbind indicates current EMS data base directory size value in percentage.

Objects: **starEmsNotifRaisedTime**
starEmsProcMonThreshold

Object: **starEmsDataBaseDirUsageNormal**

Object ID: enterprises.8164.1.1000.2.29

Description: This notification is generated by EMS Process Monitoring when EMS data base directory size usage threshold comes to normal value. The starEmsThreshold varbind indicates current EMS data base directory size usage value in percentage.

Objects: **starEmsNotifRaisedTime**
starEmsProcMonThreshold

Object: **starEmsFTPDirAccessible**

Object ID: enterprises.8164.1.1000.2.30

Description: This notification is generated by EMS Process Monitoring when EMS FTP directory becomes accessible.

Objects: **starEmsNotifRaisedTime**

Object: **starEmsFTPDirNonAccessible**

Object ID: enterprises.8164.1.1000.2.31

Description: This notification is generated by EMS Process Monitoring when EMS FTP directory is not accessible.

Objects: **starEmsNotifRaisedTime**

Object: **starEmsFTPDirUsageOverLimit**

Object ID: enterprises.8164.1.1000.2.32

Description: This notification is generated by EMS Process Monitoring when EMS FTP directory usage threshold is exceeded. The starEmsThreshold varbind indicates current EMS FTP directory usage value in percentage.

Objects: **starEmsNotifRaisedTime**
starEmsProcMonThreshold

Object: **starEmsFTPDirUsageNormal**

Object ID: enterprises.8164.1.1000.2.33

Description:

This notification is generated by EMS Process Monitoring when EMS FTP directory size usage threshold is comes to normal value. The starEmsThreshold varbind indicates current EMS FTP directory size usage value in percentage.

Objects: **starEmsNotifRaisedTime**
starEmsProcMonThreshold

Object: **starEmsBlkArchDirAccessible**

Object ID: enterprises.8164.1.1000.2.34

Description: This notification is generated by EMS Process Monitoring when EMS bulk archive directory becomes accessible.

Objects: **starEmsNotifRaisedTime**

Object: **starEmsBlkArchDirNonAccessible**

Object ID: enterprises.8164.1.1000.2.35

Description: This notification is generated by EMS Process Monitoring when EMS bulk archive directory is not accessible.

Objects: **starEmsNotifRaisedTime**

Object: **starEmsBlkArchDirUsageOverLimit**

Object ID: enterprises.8164.1.1000.2.36

Description: This notification is generated by EMS Process Monitoring when EMS bulk archive directory size usage threshold is exceeded. The starEmsThreshold varbind indicates current EMS bulk archive directory size value in percentage.

Objects: **starEmsNotifRaisedTime**
starEmsProcMonThreshold

Object: **starEmsBlkArchDirUsageNormal**

Object ID: enterprises.8164.1.1000.2.37

Description: This notification is generated by EMS Process Monitoring when EMS bulk archive directory size usage threshold is comes to normal value. The starEmsThreshold varbind indicates current EMS bulk archive directory size usage value in percentage.

Objects: **starEmsNotifRaisedTime**
starEmsProcMonThreshold

Object: **starEmsInterfaceStateUp**

Object ID:

enterprises.8164.1.1000.2.38

Description: This notification is generated by EMS Process Monitoring when EMS interface state comes up. Varbinds indicate interface IP address and name.

Objects: **starEmsNotifRaisedTime**
starEmsInterfaceAddr
starEmsInterfaceName

Object: **starEmsInterfaceStateDown**

Object ID: enterprises.8164.1.1000.2.39

Description: This notification is generated by EMS Process Monitoring when EMS interface state goes down. Varbinds indicate interface address and name

Objects: **starEmsNotifRaisedTime**
starEmsInterfaceAddr
starEmsInterfaceName

Object: **starEmsCPUUsageOverLimit**

Object ID: enterprises.8164.1.1000.2.40

Description: This notification is generated by EMS Process Monitoring when EMS CPU usage threshold is exceeded. The starEmsThreshold varbind indicates current EMS CPU usage value in percentage.

Objects: **starEmsNotifRaisedTime**
starEmsProcMonThreshold

Object: **starEmsCPUUsageNormal**

Object ID: enterprises.8164.1.1000.2.41

Description: This notification is generated by Process Monitoring when EMS CPU usage threshold comes to normal value. The starEmsThreshold varbind indicates current EMS CPU usage value in percentage.

Objects: **starEmsNotifRaisedTime**
starEmsProcMonThreshold

Object: **starEmsSwapUsageOverLimit**

Object ID: enterprises.8164.1.1000.2.42

Description: This notification is generated by Process Monitoring when EMS swap usage threshold is exceeded. The starEmsThreshold varbind indicates current EMS swap usage value in percentage.

Objects:	**starEmsNotifRaisedTime** **starEmsProcMonThreshold**

Object:	**starEmsSwapUsageNormal**
Object ID:	enterprises.8164.1.1000.2.43
Description:	This notification is generated by Process Monitoring when EMS swap usage threshold comes to normal value. The starEmsThreshold varbind indicates current EMS swap usage value in percentage.

Objects:	**starEmsNotifRaisedTime** **starEmsProcMonThreshold**

Object:	**starEmsPCFtpFailed**
Object ID:	enterprises.8164.1.1000.2.44
Description:	This notification is generated by Periodic Configuration Saving module when FTP fails while fetching a config file from the IMG.

Objects:	**starEmsNotifRaisedTime** **starEmsImgAddr** **starEmsFtpFileName** **starEmsNotifInfo**

Object:	**starEmsPCFileDeletionFailed**
Object ID:	enterprises.8164.1.1000.2.45
Description:	This notification is generated by Periodic Configuration Saving module when deletion of file on the IMG fails.

Objects:	**starEmsNotifRaisedTime** **starEmsIMGAddr** **starEmsFtpFileName** **starEmsNotifInfo**

Object:	**starEmsBulkStatFtpFailed**
Object ID:	enterprises.8164.1.1000.2.46
Description:	This notification is generated by Bulkstat module when bulkstat file transfer operation from IMG fails or gets delayed than the expected time

Objects:	**starEmsNotifRaisedTime** **starEmsBulkStatFileXferTime** **starEmsIMGState**

starEmsIMGAddr

Object: **starEmsBulkStatFtpClear**

Object ID: enterprises.8164.1.1000.2.47

Description: This notification is generated by BulkStat module when bulkstat file transfer operation from IMG succeeds and starEmsBulkStatFtpFailed trap is already raised for the IMG.

Objects:
starEmsNotifRaisedTime
starEmsIMGAddr

Object: **starEmsXMLFtpFailed**

Object ID: enterprises.8164.1.1000.2.48

Description: This notification is generated by EMS when FTP of Bulkstat XML file on the NMS fails.

Objects:
starEmsNotifRaisedTime
starEmsXMLFtpDestAddr
starEmsXMLFtpDestPath
starEmsNotifInfo

Object: **starEmsXMLFtpSuccess**

Object ID: enterprises.8164.1.1000.2.49

Description: This notification is generated by EMS when FTP of Bulk stat XML file on the NMS succeed.

Objects:
starEmsNotifRaisedTime
starEmsXMLFtpDestAddr
starEmsXMLFtpDestPath
starEmsNotifInfo

Object: **starEmsIMGUnmanageable**

Object ID: enterprises.8164.1.1000.2.50

Description: This notification is generated by EMS when IMG becomes unmanageable.

Objects:
starEmsNotifRaisedTime
starEmsIMGName
starEmsIMGAddr
starEmsIMGPreviousState

Object: **starEmsIMGManageable**

Object ID:

enterprises.8164.1.1000.2.51

Description: This notification is generated by EMS when IMG becomes manageable.

Objects:
starEmsNotifRaisedTime
starEmsIMGName
starEmsIMGAddr
starEmsIMGPreviousState

Object: starEmsPortMonThresholdBelowLimit

Object ID: enterprises.8164.1.1000.2.52

Description: This notification is generated by EMS Port Monitoring when delta value for a particular port has fallen below the configured threshold value.

Objects:
starEmsNotifRaisedTime
starEmsIMGName
starEmsIMGAddr
starSlotNum
starPortNum
starEmsPortMonThreshold
starEmsPortMonCurrent

Object: starEmsPortMonThresholdNormal

Object ID: enterprises.8164.1.1000.2.53

Description: This notification is generated by EMS Port Monitoring when delta value for a particular port threshold comes to normal value.

Objects:
starEmsNotifRaisedTime
starEmsIMGName
starEmsIMGAddr
starSlotNum
starPortNum
starEmsPortMonThreshold
starEmsPortMonCurrent

Object: starEmsPortMonError

Object ID: enterprises.8164.1.1000.2.54

Description: This notification is generated by EMS Port Monitoring when any error in fetching values from a particular IMG.

Objects:
starEmsNotifRaisedTime
starEmsIMGName
starEmsIMGAddr

	starEmsNotifInfo
Object:	**starEmsWebServerProcDetectRestart**
Object ID:	enterprises.8164.1.1000.2.55
Description:	This notification is generated by EMS Process Monitoring when EMS web server process restart is detected.
Objects:	**starEmsNotifRaisedTime**
Object:	**starEmsDataBaseProcDetectRestart**
Object ID:	enterprises.8164.1.1000.2.56
Description:	This notification is generated by EMS Process Monitoring when EMS Data Base process restart is detected.
Objects:	**starEmsNotifRaisedTime**
Object:	**starEmsServerProcDetectRestart**
Object ID:	enterprises.8164.1.1000.2.57
Description:	This notification is generated by EMS Process Monitoring when EMS server process restart is detected.
Objects:	**starEmsNotifRaisedTime**
Object:	**starEmsScriptServerProcDetectRestart**
Object ID:	enterprises.8164.1.1000.2.58
Description:	This notification is generated by EMS Process Monitoring when EMS Script server process restart is detected.
Objects:	**starEmsNotifRaisedTime**
Object:	**starEmsBulkStatServerProcStart**
Object ID:	enterprises.8164.1.1000.2.59
Description:	This notification is generated by EMS Process Monitoring when Ems Bulkstat server process comes up.
Objects:	**starEmsNotifRaisedTime**
Object:	**starEmsBulkStatServerProcStop**

Object ID: enterprises.8164.1.1000.2.60

Description: This notification is generated by EMS Process Monitoring when Ems Bulkstat server process goes down.

Objects: **starEmsNotifRaisedTime**

Object: **starEmsBulkStatServerProcDetectRestart**

Object ID: enterprises.8164.1.1000.2.61

Description: This notification is generated by EMS Process Monitoring when Ems Bulkstat server process restart is detected.

Objects: **starEmsNotifRaisedTime**

Object: **starEmsBulkStatServerProcCPUUsageOverLimit**

Object ID: enterprises.8164.1.1000.2.62

Description: This notification is generated by EMS Process Monitoring when EMS Bulkstat server process cpu usage threshold is exceeded. The starEmsThreshold varbind indicates current EMS Bulkstat server process cpu usage value in percentage.

Objects: **starEmsNotifRaisedTime**
starEmsProcMonThreshold

Object: **starEmsBulkStatServerProcCPUUsageNormal**

Object ID: enterprises.8164.1.1000.2.63

Description: This notification is generated by EMS Process Monitoring when EMS Bulkstat server process cpu usage threshold comes to normal value. The starEmsThreshold varbind indicates current EMS Bulkstat server process cpu usage value in percentage.

Objects: **starEmsNotifRaisedTime**
starEmsProcMonThreshold

Object: **starEmsBulkStatParserProcStart**

Object ID: enterprises.8164.1.1000.2.64

Description: his notification is generated by EMS Process Monitoring when Ems Bulkstat parser process comes up.

Objects: **starEmsNotifRaisedTime**

Object:

starEmsBulkStatParserProcStop

Object ID: enterprises.8164.1.1000.2.65

Description: This notification is generated by EMS Process Monitoring when Ems Bulkstat parser process goes down.

Objects: **starEmsNotifRaisedTime**

Object: **starEmsBulkStatParserProcDetectRestart**

Object ID: enterprises.8164.1.1000.2.66

Description: This notification is generated by EMS Process Monitoring when Ems Bulkstat parser process restart is detected.

Objects: **starEmsNotifRaisedTime**

Object: **starEmsBulkStatParserProcCPUUsageOverLimit**

Object ID: enterprises.8164.1.1000.2.67

Description: This notification is generated by EMS Process Monitoring when EMS Bulkstat parser process cpu usage threshold is exceeded. The starEmsThreshold varbind indicates current EMS Bulkstat parser process cpu usage value in percentage.

Objects: **starEmsNotifRaisedTime**
starEmsProcMonThreshold

Object: **starEmsBulkStatParserProcCPUUsageNormal**

Object ID: enterprises.8164.1.1000.2.68

Description: This notification is generated by EMS Process Monitoring when EMS Bulkstat parser process cpu usage threshold comes to normal value. The starEmsThreshold varbind indicates current EMS Bulkstat parser process cpu usage value in percentage.

Objects: **starEmsNotifRaisedTime**
starEmsProcMonThreshold

Object: **starEmsIMGRateControlStart**

Object ID: enterprises.8164.1.1000.2.69

Description: This notification is generated by EMS when IMG Rate-Control is stated. IMG's CORBA server resource utilization is over limit.

Objects: **starEmsNotifRaisedTime**

starEmsIMGName
starEmsIMGAddr

Object: **starEmsIMGRateControlStop**

Object ID: enterprises.8164.1.1000.2.70

Description: This notification is generated by EMS when IMG Rate-Control is stopped. IMG's CORBA server resource utilization is over limit.

Objects:
starEmsNotifRaisedTime
starEmsIMGName
starEmsIMGAddr

Object: **starEmsMonitorQueueFull**

Object ID: enterprises.8164.1.1000.2.71

Description: This notification is generated by EMS when monitor event queue is full.

Objects:
starEmsNotifRaisedTime
starEmsTotalPendingEvts
starEmsMaxLimit
starEmsClientAddr
starEmsMonOldEvtTimeStamp
starEmsMonitorType
starEmsMonitorUserName

Object: **starEmsMonitorQueueInLimit**

Object ID: enterprises.8164.1.1000.2.72

Description: This notification is generated by EMS when the monitor event queue is partially full.

Objects:
starEmsNotifRaisedTime
starEmsTotalPendingEvts
starEmsMaxLimit
starEmsClientAddr
starEmsMonitorType
starEmsMonitorUserName

Object: **starClusterFailoverHappened**

Object ID: enterprises.8164.1.1000.2.73

Description: This notification is generated by EMS when cluster failover happens.

Objects:
starEmsNotifRaisedTime
starEmsPrevHostName

starEmsCurrHostName

Object: **starEmsDBBackupNoDiscSpace**

Object ID: enterprises.8164.1.1000.2.74

Description: This notification is generated by EMS when disc space gets full. No disc space is available.

Objects: **starEmsNotifRaisedTime**
starEmsDevicePath

Object: **starEMSP2PProtocolUsageHigh**

Object ID: enterprises.8164.1.1000.2.75

Description: This notification is generated by EMS when protocol values are beyond the threshold value.

Objects: **starEmsNotifRaisedTime**
starEmsIMGName
starEmsP2PProtocolType
starEmsP2PProtocolVal

Object: **starEmsP2PProtocolUsageLimit**

Object ID: enterprises.8164.1.1000.2.76

Description: This notification is generated by EMS when protocol values are within limit.

Objects: **starEmsNotifRaisedTime**
starEmsIMGName
starEmsP2PProtocolType
starEmsP2PProtocolVal

Object: **starEmsKeywordDetectedInSyslog**

Object ID: enterprises.8164.1.1000.2.77

Description: This notification is generated by EMS when a configured keyword is detected in the syslog message.

Objects: **starEmsNotifRaisedTime**
starEmsSyslogLoggedTime
starEmsSyslogFacility
starEmsSyslogPriority
starEmsSyslogHostname
starEmsSyslogKeyword
starEmsSyslogMessage

starEmsSyslogFilePath

Object: **starEmsDBMigration**

Object ID: enterprises.8164.1.1000.2.78

Description: This notification is generated by EMS when the database migration is done for a particular database.

Objects: **starEmsNotifRaisedTime**
starEmsDBName

Object: **starEmsNBServerProcStart**

Object ID: enterprises.8164.1.1000.2.79

Description: This notification is generated by EMS process monitoring when the EMS NB server process comes up.

Objects: **starEmsNotifRaisedTime**

Object: **starEmsNBServerProcStop**

Object ID: enterprises.8164.1.1000.2.80

Description: This notification is generated by EMS process monitoring when the EMS NB server process goes down.

Objects: **starEmsNotifRaisedTime**

Object: **starEmsNBServerProcDetectRestart**

Object ID: enterprises.8164.1.1000.2.81

Description: This notification is generated by EMS process monitoring when the EMS NB server process restart is detected.

Objects: **starEmsNotifRaisedTime**

Object: **starEmsNBServerProcCPUUsageOverLimit**

Object ID: enterprises.8164.1.1000.2.82

Description: This notification is generated by EMS process monitoring when the NB server process CPU usage threshold is exceeded. The starEmsThreshold varbind indicates current NB server process CPU value as a percentage.

Objects: **starEmsNotifRaisedTime**

starEmsProcMonThreshold

Object: **starEmsNBServerProcCPUUsageNormal**

Object ID: enterprises.8164.1.1000.2.83

Description: This notification is generated by EMS process monitoring when the NB server process CPU usage threshold comes to a normal value. The starEmsThreshold varbind indicates current NB server process cpu value as a percentage.

Objects: **starEmsNotifRaisedTime**
starEmsProcMonThreshold

Object: **starEmsNotifyServiceProcStart**

Object ID: enterprises.8164.1.1000.2.84

Description: This notification is generated by EMS process monitoring when the EMS notification service process comes up.

Objects: **starEmsNotifRaisedTime**

Object: **starEmsNotifyServiceProcStop**

Object ID: enterprises.8164.1.1000.2.85

Description: This notification is generated by EMS process monitoring when the EMS notification service process goes down.

Objects: **starEmsNotifRaisedTime**

Object: **starEmsNotifyServiceProcDetectRestart**

Object ID: enterprises.8164.1.1000.2.86

Description: This notification is generated by EMS process monitoring when the EMS notification service process restart is detected.

Objects: **starEmsNotifRaisedTime**

Object: **starEmsNotifyServiceProcCPUUsageOverLimit**

Object ID: enterprises.8164.1.1000.2.87

Description: This notification is generated by EMS process monitoring when the Ems Notification Service process CPU usage threshold is exceeded. The starEmsThreshold varbind indicates current Ems Notification Service process cpu usage value as a percentage.

Objects:

starEmsNotifRaisedTime
starEmsProcMonThreshold

Object: **starEmsNotifyServiceProcCPUUsageNormal**

Object ID: enterprises.8164.1.1000.2.88

Description: This notification is generated by EMS process monitoring when the Ems Notification Service process CPU usage threshold comes to normal. The starEmsThreshold varbind indicates current Ems Notification Service process cpu usage value as a percentage.

Objects: **starEmsNotifRaisedTime**
starEmsProcMonThreshold

Object: **starEmsBulkStatCounterThresholdAboveLimit**

Object ID: enterprises.8164.1.1000.2.89

Description: This notification is generated by the EMS bulkstat parser when the delta value for a particular bulkstat counter has exceeded its configured threshold value.

Objects: **starEmsNotifRaisedTime**
starEmsIMGName
starEmsBulkstatCounter
starEmsBulkStatRecordDetails
starEmsBulkStatRecordTime
starEmsBulkStatThreshold
starEmsBulkStatCurrent

Object: **starEmsBulkStatCounterThresholdNormal**

Object ID: enterprises.8164.1.1000.2.90

Description: This notification is generated by the EMS bulkstat parser when the delta value for a particular bulkstat counter comes to the normal value.

Objects: **starEmsNotifRaisedTime**
starEmsIMGName
starEmsBulkstatCounter
starEmsBulkStatRecordDetails
starEmsBulkStatRecordTime
starEmsBulkStatThreshold
starEmsBulkStatCurrent

Object: **starEmsCFDBDirAccessible**

Object ID: enterprises.8164.1.1000.2.91

Description:

This notification is generated by EMS Process Monitoring when EMS content filtering directory is accessible.

Objects: **starEMSNotifRaisedTime**

Object: **starEmsCFDBDirNonAccessible**

Object ID: enterprises.8164.1.1000.2.92

Description: This notification is generated by EMS Process Monitoring when EMS content filtering directory is not accessible. **Possible Cause:** None given. **Action Clear:** A starEmsCFDBDirAccessible message is generated when database comes back online.

Objects: **starEMSNotifRaisedTime**

Object: **starEmsCFDBDirUsageOverLimit**

Object ID: enterprises.8164.1.1000.2.93

Description: EMS content filtering directory usage threshold is exceeded. **Possible Cause:** This is a user-configurable parameter. **Action Clear:** A starEMSCFDBDirUsageNormal notification is issued when usage drops below the threshold.

Objects: **starEMSNotifRaisedTime**
starEMSProcMonThreshold

Object: **starEmsCFDBDirUsageNormal**

Object ID: enterprises.8164.1.1000.2.94

Description: EMS content filtering directory usage has come to normal value.

Objects: **starEMSNotifRaisedTime**
starEMSProcMonThreshold

Object: **starEmsCFDbImportFailed**

Object ID: enterprises.8164.1.1000.2.95

Description: This notification is generated by CFEMS when failed to Import database file. **Possible Cause:** None given **Action Clear:** A starEmsCFDbImportSucceeded message is generated when the database file is successfully imported.

Objects: **starEmsNotifRaisedTime,**
starEmsCFMcrdbsHostAddress,
starEmsCFDbType,
starEmsCFSourceDbFileName

Object:

starEmsCFDbImportSucceeded

Object ID: enterprises.8164.1.1000.2.96

Description: This notification is generated by CFEMS Database file is imported.

Objects: **starEmsNotifRaisedTime,**
starEmsCFMcrdbsHostAddress,
starEmsCFDbType,
starEmsCFSourceDbFileName

Object: **starEmsCFDbExportFailed**

Object ID: enterprises.8164.1.1000.2.97

Description: This notification is generated by CFEMS when database has failed to export. **Possible Cause:** None given **Action Clear:** A starEmsCFDbExportSucceeded message is generated.

Objects: **starEmsNotifRaisedTime,**
starEmsCFCdpHostAddress,
starEmsCFDbType,
starEmsCFSourceDbFileName

Object: **starEmsCFDbExportSucceeded**

Object ID: enterprises.8164.1.1000.2.98

Description: This notification is generated by CFEMS on successful export of a database file.

Objects: **starEmsNotifRaisedTime,**
starEmsCFCdpHostAddress,
starEmsCFDbType,
starEmsCFSourceDbFileName

Object: **starEmsCFDbConversionFailed**

Object ID: enterprises.8164.1.1000.2.99

Description: CF database conversion/manipulation operation failed **Possible Cause:** None given **Action Clear:** a starEmsCFDbConversionSucceeded message is generated.

Objects: **starEmsNotifRaisedTime,**
starEmsCFFromDbType,
starEmsCFToDbType,
starEmsCFSourceDbFileName,
starEmsCFDestDbFileName

Object: **starEmsCFDbConversionSucceeded**

Object ID: enterprises.8164.1.1000.2.100

Description: This notification is generated by CFEMS when Database conversion done successfully.

Objects: **starEmsNotifRaisedTime,**
starEmsCFFromDbType,
starEmsCFToDbType,
starEmsCFSourceDbFileName,
starEmsCFDestDbFileName

Object: **starEmsCFFtpConnetionFailed**

Object ID: enterprises.8164.1.1000.2.101

Description: SFTP Connection failed. **Possible Cause:** None given **Action Clear:** None given

Objects: **starEmsNotifRaisedTime,**
starEmsCFFtpHostInfo

Object: **starEmsBulkStatCounterUsageOverLimit**

Object ID: enterprises.8164.1.1000.2.102

Description: This notification is generated by EMS bulkstat parser when counter value for a particular bulkstat counter has reached or exceeded the configured threshold value. **Possible Cause:** This is a user-configurable parameter. **Action Clear:** A starEmsBulkStatCounterUsageNormal message is generated when usage drops below the threshold.

Objects: **starEmsNotifRaisedTime,**
starEmsIMGName,
starEmsBulkStatCounter,
starEmsBulkStatRecordDetails,
starEmsBulkStatRecordTime,
starEmsBulkStatThreshold,
starEmsBulkStatCounterValue

Object: **starEmsBulkStatCounterUsageNormal**

Object ID: enterprises.8164.1.1000.2.103

Description: This message is generated when usage drops below the threshold.

Objects: **starEmsNotifRaisedTime,**
starEmsIMGName,
starEmsBulkStatCounter,
starEmsBulkStatRecordDetails,

	starEmsBulkStatRecordTime, **starEmsBulkStatThreshold,** **starEmsBulkStatCounterValue**

Object:	**starEmsConfigBackupFtpFailed**
Object ID:	enterprises.8164.1.1000.2.104
Description:	This notification is generated by EMS when FTP of Config Backup file from STxx to EMS fails.
Objects:	**starEmsNotifRaisedTime** **starEmsIMGName** **starEmsNotifInfo**

Object:	**starEmsConfigBackupFtpSuccess**
Object ID:	enterprises.8164.1.1000.2.105
Description:	his notification is generated by EMS when FTP of Config Backup file from STxx to EMS succeed.
Objects:	**starEmsNotifRaisedTime** **starEmsIMGName** **starEmsNotifInfo**

starentMIB(8164).starentMIBObjects(1).starentEmsMIB(1000)

starEmsMIBConformances(3)

starentMIB(8164).starentMIBObjects(1).starentEmsMIB(1000)

starEmsMIBConformances(3).starEmsMIBCompliances(1)

Object:	**starEmsMIBCompliance**
Object ID:	enterprises.8164.1.1000.3.1.1
Description:	The compliance statements for entities which implement the STARENT EMS MIB.

starEmsNotifMgmtGroup

starEmsNotifGroup

starentMIB(8164).starentMIBObjects(1).starentEmsMIB(1000)

starEmsMIBConformances(3).starEmsMIBGroups(2)

Object Group: **starEmsNotifMgmtGroup**

Object ID: enterprises.8164.1.1000.3.2.1

Description: This is a collection of objects related with notification management on EMS.

Objects:
starEmsNotifInfo
starEmsNotifRaisedTime
starEmsProcMonThreshold
starEmsInterfaceAddr
starEmsInterfaceName
starEmsIMGAddr
starEmsFtpFileName
starEmsIMGState
starEmsBulkStatFileXferTime
starEmsXMLFtpFileName
starEmsXMLFtpDestAddr
starEmsXMLFtpDestPath
starEmsIMGPreviousState
starEmsIMGName
starEmsPortMonThreshold
starEmsPortMonCurrent
starEmsDevicePath
starEmsPrevHostName
starEmsCurrHostName
starEmsP2PProtocolType
starEmsP2PProtocolValue
starEmsSyslogLoggedTime
starEmsSyslogFacility
starEmsSyslogPriority
starEmsSyslogHostname
starEmsSyslogKeyword
starEmsSyslogMessage
starEmsSyslogFilePath
starEmsDBName
starEmsBulkStatCounter
starEmsBulkStatRecordDetails
starEmsBulkStatRecordTime
starEmsBulkStatThreshold
starEmsBulkStatCurrent
starEmsCFMcrdbsHostAddress,

starEmsCFDbType,
starEmsCFSourceDbFileName,
starEmsCFCdpHostAddress,
starEmsCFFromDbType,
starEmsCFToDbType,
starEmsCFDestDbFileName,
starEmsBulkStatCounterValue

Object Group:

starEmsNotifGroup

Object ID: enterprises.8164.1.1000.3.2.2

Description: A collection of EMS notifications.

Object Group:

starEmsFmEmailFailed
starEmsFmScriptFailed
starEmsFmSyslogFailed
starEmsWebServerProcStart
starEmsWebServerProcStop
starEmsWebServerProcCPUUsageOverLimit
starEmsWebServerProcCPUUsageNormal
starEmsDataBaseProcStart
starEmsDataBaseProcStop
starEmsDataBaseProcCPUUsageOverLimit
starEmsDataBaseProcCPUUsageNormal
starEmsServerProcStart
starEmsServerProcStop
starEmsServerProcCPUUsageOverLimit
starEmsServerProcCPUUsageNormal
starEmsScriptServerProcStart
starEmsScriptServerProcStop
starEmsScriptServerProcCPUUsageOverLimit
starEmsScriptServerProcCPUUsageNormal
starEmsServerDirAccessible
starEmsServerDirNonAccessible
starEmsServerDirUsageOverLimit
starEmsServerDirUsageNormal
starEmsDataBaseDirAccessible
starEmsDataBaseDirNonAccessible
starEmsDataBaseDirUsageOverLimit
starEmsDataBaseDirUsageNormal
starEmsFTPDirAccessible
starEmsFTPDirNonAccessible
starEmsFTPDirUsageOverLimit
starEmsFTPDirUsageNormal
starEmsBlkArchDirAccessible
starEmsBlkArchDirNonAccessible
starEmsBlkArchDirUsageOverLimit
starEmsBlkArchDirUsageNormal

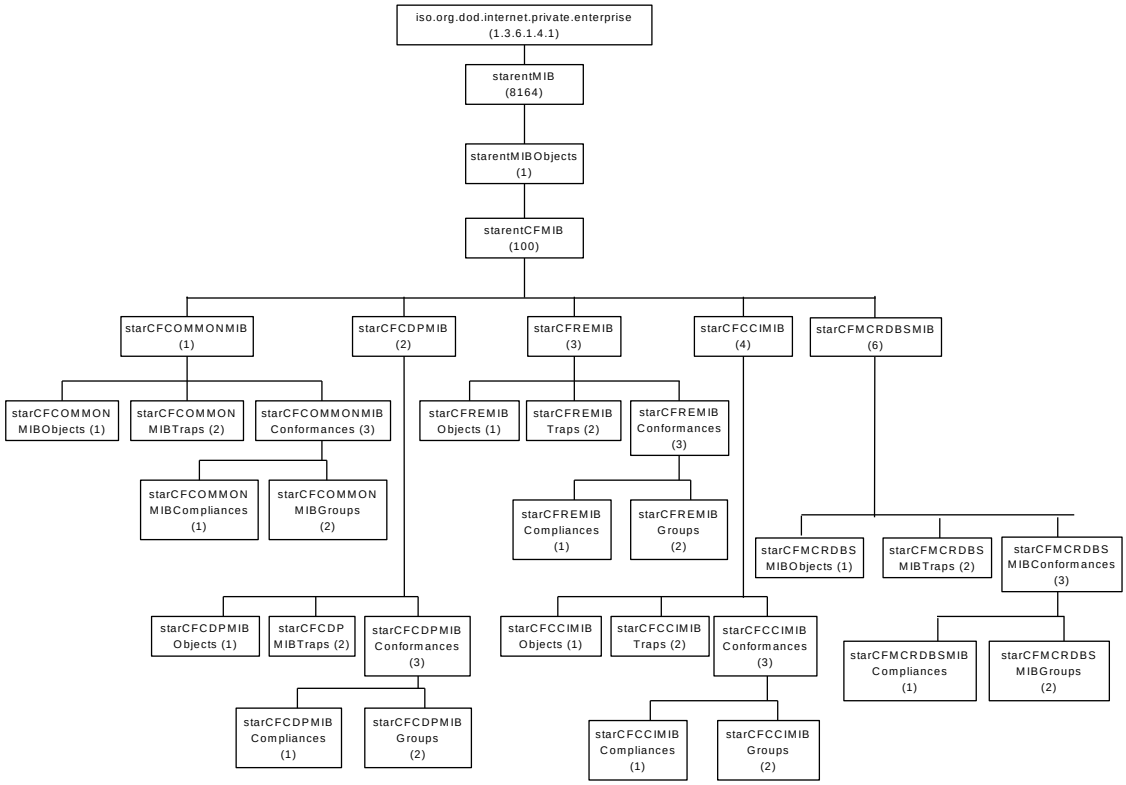
starEmsInterfaceStateUp
starEmsInterfaceStateDown
starEmsCPUUsageOverLimit
starEmsCPUUsageNormal
starEmsSwapUsageOverLimit
starEmsSwapUsageNormal
starEmsPCFtpFailed
starEmsPCFileDeletionFailed
starEmsBulkStatFtpFailed
starEmsBulkStatFtpClear
starEmsXMLFtpFailed
starEmsXMLFtpSuccess
starEmsIMGUnmanageable
starEmsIMGManageable
starEmsPortMonThresholdBelowLimit
starEmsPortMonThresholdNormal
starEmsPortMonError
starEmsWebServerProcDetectRestart
starEmsDataBaseProcDetectRestart
starEmsServerProcDetectRestart
starEmsScriptServerProcDetectRestart
starEmsBulkStatServerProcStart
starEmsBulkStatServerProcStop
starEmsBulkStatServerProcDetectRestart
starEmsBulkStatServerProcCPUUsageOverLimit
starEmsBulkStatServerProcCPUUsageNormal
starEmsBulkStatParserProcStart
starEmsBulkStatParserProcStop
starEmsBulkStatParserProcDetectRestart
starEmsBulkStatParserProcCPUUsageOverLimit
starEmsBulkStatParserProcCPUUsageNormal
starEmsIMGRateControlStart
starEmsIMGRateControlStop
starEmsMonitorQueueFull
starEmsMonitorQueueInLimit
starEmsNotifRaisedTime
starClusterFailoverHappened
starEmsDBBackupNoDiscSpace
starEmsP2PProtocolUsageHigh
starEmsP2PProtocolUsageLimit
starEmsNBServerProcStart
starEmsNBServerProcStop
starEmsNBServerProcDetectRestart
starEmsNBServerProcCPUUsageOverLimit
starEmsNBServerProcCPUUsageNormal
starEmsNotifyServiceProcStart
starEmsNotifyServiceProcStop
starEmsNotifyServiceProcDetectRestart
starEmsNotifyServiceProcCPUUsageOverLimit
starEmsNotifyServiceProcCPUUsageNormal
starEmsKeywordDetectedInSyslog

starEmsDBMigration
starEmsBulkStatCounterThresholdAboveLimit
starEmsBulkStatCounterThresholdNormal
starEmsCFDBDirAccessible
starEmsCFDBDirNonAccessible,
starEmsCFDBDirUsageOverLimit,
starEmsCFDBDirUsageNormal,
starEmsCFDbImportFailed,
starEmsCFDbImportSucceeded,
starEmsCFDbExportFailed,
starEmsCFDbExportSucceeded,
starEmsCFDbConversionFailed,
starEmsCFDbConversionSucceeded,
starEmsCFFtpConnetionFailed,
starEmsBulkStatCounterUsageOverLimit,
starEmsBulkStatCounterUsageNormal
starEmsConfigBackupFtpFailed
starEmsConfigBackupFtpSuccess

Chapter 5
Content Filtering Application MIB

The figure that follows illustrates the hierarchical structure of the management information base (MIB) for the Content Filtering service applications.

Figure 1. starent_cf_mib_tree_v1_Rev1.wmf



MIB Textual Conventions

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCfCommonMIB(1)

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFCOMMONMIB(1).starCFCOMMONMIBConformances(3)

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFCOMMONMIB(1).starCFCOMMONMIBConformances(3).starCFCOMMONMIBCompliances(1)

Object:	**starCFCOMMONMIBCompliance**
Object ID:	enterprises.8164.1.100.1.3.1.1
Description:	The compliance statements for entities which implement the STARENT CF MIB.
Objects:	**starCFCOMMONNotifMgmtGroup**

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCfCommonMIB(1)

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFCOMMONMIB(1).starCFCOMMONMIBConformances(3)

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFCOMMONMIB(1).starCFCOMMONMIBConformances(3).starCFCOMMONMIBCompliances(1)

Object:	**starCFCOMMONMIBCompliance**
Object ID:	enterprises.8164.1.100.1.3.1.1
Description:	The compliance statements for entities which implement the STARENT CF MIB.
Objects:	**starCFCOMMONNotifMgmtGroup**

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFCOMMONMIB(1).starCFCOMMONMIBConformances(3)

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFCOMMONMIB(1).starCFCOMMONMIBConformances(3).starCFCOMMONMIBGroup(2)

Object Group:	**starCFCOMMONNotifMgmtGroup**
Object ID:	enterprises.8164.1.100.1.3.2.1
Description:	A collection of objects related with notification management on CF-Common.
Objects:	**starCfNotifRaisedTime starCfThresholdConfigured starCfThresholdMeasured starCfIPAddr starCfNotifInfo**

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFCDPMIB(2)

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFCDPMIB(2).starCFCDPMIBTraps(2)

Object:	**starCfCdpStart**
Object ID:	enterprises.8164.1.100.2.2.1
Description:	This notification is generated when CDP server starts and CF-CDP server process comes up.
Objects:	**starCfNotifRaisedTime starCfNotifInfo**
Object:	**starCfCdpStop**
Object ID:	enterprises.8164.1.100.2.2.2
Description:	This notification is generated when CDP server stops and CF-CDP server process goes down.
Objects:	**starCfNotifRaisedTime starCfNotifInfo**
Object:	**starCfCdpRestart**
Object ID:	enterprises.8164.1.100.2.2.3
Description:	

This notification is generated when CDP server restarts and CF-CDP server process again comes up.

Objects:	**starCfNotifRaisedTime starCfNotifInfo**
Object:	**starCfCdpProcApiOpFailed**
Object ID:	enterprises.8164.1.100.2.2.4
Description:	This notification is generated by CF-CDP when the CFLIB API Operation fails.
Objects:	**starCfNotifRaisedTime starCfParseFileName starCfNotifInfo**
Object:	**starCfCdpApiVerError**
Object ID:	enterprises.8164.1.100.2.2.5
Description:	Notification generated by CF-CDP when the CFLIB DB Version Error occurs.
Objects:	**starCfNotifRaisedTime starCfParseFileName starCfNotifInfo**
Object:	**starCfCdpThreshCPUUtilization**
Object ID:	enterprises.8164.1.100.2.2.6
Description:	This notification is generated by CF-System when the CDP process's CPU usage threshold exceeds the configured limit. The **starCfThresholdMeasured** indicates the current CDP process's CPU usage in percentage.
Objects:	**starCfNotifRaisedTime starCfThresholdMeasured**
Object:	**starCfCdpClearThreshCPUUtilization**
Object ID:	enterprises.8164.1.100.2.2.7
Description:	This notification is generated by CF-System when the CDP process's CPU usage comes back to below the threshold limit. The **starCfThresholdMeasured** indicates the current CDP process's CPU usage in percentage.
Objects:	**starCfNotifRaisedTime starCfThresholdMeasured**
Object:	**starCfCdpThreshDiskUtilization**
Object ID:	enterprises.8164.1.100.2.2.8
Description:	This notification is generated by CF-System when the CDP process's disk usage threshold exceeds the configured limit. The **starCfThresholdMeasured** indicates the current CDP process's disk usage in percentage.

Objects:	**starCfNotifRaisedTime starCfThresholdMeasured**
Object:	**starCfCdpClearThreshDiskUtilization**
Object ID:	enterprises.8164.1.100.2.2.9
Description:	This notification is generated by CF-System when the CDP process's disk usage comes back to below the threshold limit. The **starCfThresholdMeasured** indicates the current CDP process's disk usage in percentage.

Objects:	**starCfNotifRaisedTime starCfThresholdMeasured**
Object:	**starCfCdpThreshSwapUtilization**
Object ID:	enterprises.8164.1.100.2.2.10
Description:	This notification is generated by CF-System when the CDP process's swap usage threshold exceeds the configured limit. The **starCfThresholdMeasured** indicates the current CDP process's swap usage in percentage.

Objects:	**starCfNotifRaisedTime starCfThresholdMeasured**
Object:	**starCfCdpClearThreshSwapUtilization**
Object ID:	enterprises.8164.1.100.2.2.11
Description:	This notification is generated by CF-System when the CDP process's swap usage comes back to below the threshold limit. The **starCfThresholdMeasured** indicates the current CDP process's swap usage in percentage.

Objects:	**starCfNotifRaisedTime starCfThresholdMeasured**
Object:	**starCfCdpProcReportErrWithMsg**
Object ID:	enterprises.8164.1.100.2.2.12
Description:	This notification is generated by CF-CDP when any system error is generated by CFLIB API.

Objects:	**starCfNotifRaisedTime, starCfParseFileName, starCfNotifInfo**
Object:	**StarCfCdpProcApiCfdcmErrWithMsg**
Object ID:	enterprises.8164.1.100.2.2.13
Description:	This notification is generated by CFDCM Library when any error other than system error occurs.

Objects:	**starCfNotifRaisedTime, starCfParseFileName, starCfNotifInfo**

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFCDPMIB(2).starCFCDPMIBConformances(3)

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFCDPMIB(2).starCFCDPMIBConformances(3).starCFCDPMIBGroup(2)

Object Group:	**starCFCDPNotifMgmtGroup**
Object ID:	enterprises.8164.1.100.2.3.2.1
Description:	A collection of objects related with notification management on CF-CDP.
Objects:	**starCfParseFileName**
Object Group:	**starCFCDPNotifGroup**
Object ID:	enterprises.8164.1.100.2.3.2.2
Description:	A collection of CF-CDP notifications.
Objects:	**starCfCdpStart starCfCdpStop starCfCdpRestart starCfCDPApiOpFailed starCfCdpApiVerError starCfCdpThreshCPUUtilization starCfCdpClearThreshCPUUtilization starCfCdpThreshDiskUtilization starCfCdpClearThreshDiskUtilization starCfCdpThreshSwapUtilization starCfCdpClearThreshSwapUtilization starCfCdpProcReportErrWithMsg, StarCfCdpProcApiCfdcmErrWithMsg starCfCdpProcApiPermissionDenied starCfCdpProcApiInvalidAgrs**

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFCDPMIB(2).starCFCDPMIBConformances(3)

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFCDPMIB(2).starCFCDPMIBConformances(3).starCFCDPMIBGroup(2)

Object Group:	**starCFCDPNotifMgmtGroup**
Object ID:	enterprises.8164.1.100.2.3.2.1

Description: A collection of objects related with notification management on CF-CDP.

Objects: **starCfParseFileName**

Object Group: **starCFCDPNotifGroup**

Object ID: enterprises.8164.1.100.2.3.2.2

Description: A collection of CF-CDP notifications.

Objects: **starCfCdpStart starCfCdpStop starCfCdpRestart starCfCDPApiOpFailed starCfCdpApiVerError starCfCdpThreshCPUUtilization starCfCdpClearThreshCPUUtilization starCfCdpThreshDiskUtilization starCfCdpClearThreshDiskUtilization starCfCdpThreshSwapUtilization starCfCdpClearThreshSwapUtilization starCfCdpProcReportErrWithMsg, StarCfCdpProcApiCfdcmErrWithMsg starCfCdpProcApiPermissionDenied starCfCdpProcApiInvalidAgrs**

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFREMIB(3)

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFREMIB(3).starCFREMIBTraps(2)

Object: **starCfReStart**

Object ID: enterprises.8164.1.100.3.2.1

Description: This notification is generated when Report Engine starts and CF-RE process comes up.

Objects: **starCfNotifRaisedTime**

Object: **starCfReStop**

Object ID: enterprises.8164.1.100.3.2.2

Description: This notification is generated when Report Engine stops and CF-RE process goes down.

Objects: **starCfNotifRaisedTime**

Object: **starCfReRestart**

Object ID: enterprises.8164.1.100.3.2.3

Description:

This notification is generated when Report Engine restarts and CF-RE process restart is detected.

Objects:	**starCfNotifRaisedTime**

Object:	**starCfReFileParsingAborted**
Object ID:	enterprises.8164.1.100.3.2.4
Description:	This notification is generated by CF-RE when Report Engine fails to parse EDR.

Objects:	**starCfNotifRaisedTime starCfParseFileName**

Object:	**starCfReThreshCPUUtilization**
Object ID:	enterprises.8164.1.100.3.2.5
Description:	This notification is generated by CF-System when the Report Engine process's CPU usage threshold exceeds the configured limit. The **starCfThresholdMeasured** indicates the current Report Engine process's CPU usage in percentage.

Objects:	**starCfNotifRaisedTime starCfThresholdMeasured**

Object:	**starCfReClearThreshCPUUtilization**
Object ID:	enterprises.8164.1.100.3.2.6
Description:	This notification is generated by CF-System when the Report Engine process's CPU usage comes back to below the threshold limit. The **starCfThresholdMeasured** indicates the current Report Engine process's CPU usage in percentage.

Objects:	**starCfNotifRaisedTime starCfThresholdMeasured**

Object:	**starCfReThreshDiskUtilization**
Object ID:	enterprises.8164.1.100.3.2.7
Description:	This notification is generated by CF-System when the Report Engine process's disk usage threshold exceeds the configured limit. The **starCfThresholdMeasured** indicates the current Report Engine process's disk usage in percentage.

Objects:	**starCfNotifRaisedTime starCfThresholdMeasured**

Object:	**starCfReClearThreshDiskUtilization**
Object ID:	enterprises.8164.1.100.3.2.8
Description:	

This notification is generated by CF-System when the Report Engine process's disk usage comes back to below the threshold limit. The **starCfThresholdMeasured** indicates the current Report Engine process's disk usage in percentage.

Objects: **starCfNotifRaisedTime starCfThresholdMeasured**

Object: **starCfDbThreshCPUUtilization**

Object ID: enterprises.8164.1.100.3.2.9

Description: This notification is generated by CF-System when the Postgres process's CPU usage threshold exceeds the configured limit. The **starCfThresholdMeasured** indicates the current Postgres process's CPU usage in percentage.

Objects: **starCfNotifRaisedTime starCfThresholdMeasured**

Object: **starCfDbClearThreshCPUUtilization**

Object ID: enterprises.8164.1.100.3.2.10

Description: This notification is generated by CF-System when the Postgres process's CPU usage comes back to below the threshold limit. The **starCfThresholdMeasured** indicates the current Postgres process's CPU usage in percentage.

Objects: **starCfNotifRaisedTime starCfThresholdMeasured**

Object: **starCfDbThreshDiskUtilization**

Object ID: enterprises.8164.1.100.3.2.11

Description: This notification is generated by CF-System when the Postgres process's disk usage threshold exceeds the configured limit. The **starCfThresholdMeasured** indicates the current Postgres process's disk usage in percentage.

Objects: **starCfNotifRaisedTime starCfThresholdMeasured**

Object: **starCfDbClearThreshDiskUtilization**

Object ID: enterprises.8164.1.100.3.2.12

Description: This notification is generated by CF-System when the Postgres process's disk usage comes back to below the threshold limit. The **starCfThresholdMeasured** indicates the current Postgres process's disk usage in percentage.

Objects: **starCfNotifRaisedTime starCfThresholdMeasured**

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFREMIB(3)

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFREMIB(3).starCFREMIBTraps(2)

Object:	**starCfReStart**
Object ID:	enterprises.8164.1.100.3.2.1
Description:	This notification is generated when Report Engine starts and CF-RE process comes up.
Objects:	**starCfNotifRaisedTime**
Object:	**starCfReStop**
Object ID:	enterprises.8164.1.100.3.2.2
Description:	This notification is generated when Report Engine stops and CF-RE process goes down.
Objects:	**starCfNotifRaisedTime**
Object:	**starCfReRestart**
Object ID:	enterprises.8164.1.100.3.2.3
Description:	This notification is generated when Report Engine restarts and CF-RE process restart is detected.
Objects:	**starCfNotifRaisedTime**
Object:	**starCfReFileParsingAborted**
Object ID:	enterprises.8164.1.100.3.2.4
Description:	This notification is generated by CF-RE when Report Engine fails to parse EDR.
Objects:	**starCfNotifRaisedTime starCfParseFileName**
Object:	**starCfReThreshCPUUtilization**
Object ID:	enterprises.8164.1.100.3.2.5
Description:	This notification is generated by CF-System when the Report Engine process's CPU usage threshold exceeds the configured limit. The **starCfThresholdMeasured** indicates the current Report Engine process's CPU usage in percentage.

Objects:	starCfNotifRaisedTime starCfThresholdMeasured
Object:	**starCfReClearThreshCPUUtilization**
Object ID:	enterprises.8164.1.100.3.2.6
Description:	This notification is generated by CF-System when the Report Engine process's CPU usage comes back to below the threshold limit. The **starCfThresholdMeasured** indicates the current Report Engine process's CPU usage in percentage.

Objects:	starCfNotifRaisedTime starCfThresholdMeasured
Object:	**starCfReThreshDiskUtilization**
Object ID:	enterprises.8164.1.100.3.2.7
Description:	This notification is generated by CF-System when the Report Engine process's disk usage threshold exceeds the configured limit. The **starCfThresholdMeasured** indicates the current Report Engine process's disk usage in percentage.

Objects:	starCfNotifRaisedTime starCfThresholdMeasured
Object:	**starCfReClearThreshDiskUtilization**
Object ID:	enterprises.8164.1.100.3.2.8
Description:	This notification is generated by CF-System when the Report Engine process's disk usage comes back to below the threshold limit. The **starCfThresholdMeasured** indicates the current Report Engine process's disk usage in percentage.

Objects:	starCfNotifRaisedTime starCfThresholdMeasured
Object:	**starCfDbThreshCPUUtilization**
Object ID:	enterprises.8164.1.100.3.2.9
Description:	This notification is generated by CF-System when the Postgres process's CPU usage threshold exceeds the configured limit. The **starCfThresholdMeasured** indicates the current Postgres process's CPU usage in percentage.

Objects:	starCfNotifRaisedTime starCfThresholdMeasured
Object:	**starCfDbClearThreshCPUUtilization**
Object ID:	enterprises.8164.1.100.3.2.10
Description:	

	This notification is generated by CF-System when the Postgres process's CPU usage comes back to below the threshold limit. The **starCfThresholdMeasured** indicates the current Postgres process's CPU usage in percentage.
Objects:	**starCfNotifRaisedTime starCfThresholdMeasured**
Object:	**starCfDbThreshDiskUtilization**
Object ID:	enterprises.8164.1.100.3.2.11
Description:	This notification is generated by CF-System when the Postgres process's disk usage threshold exceeds the configured limit. The **starCfThresholdMeasured** indicates the current Postgres process's disk usage in percentage.
Objects:	**starCfNotifRaisedTime starCfThresholdMeasured**
Object:	**starCfDbClearThreshDiskUtilization**
Object ID:	enterprises.8164.1.100.3.2.12
Description:	This notification is generated by CF-System when the Postgres process's disk usage comes back to below the threshold limit. The **starCfThresholdMeasured** indicates the current Postgres process's disk usage in percentage.
Objects:	**starCfNotifRaisedTime starCfThresholdMeasured**

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFREMIB(3).starCFREMIBConformances(3)

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCfReMIB(3).starCfReMIBConformances(3).starCfReMIBGroup(2)

Object Group:	**starCFEMSNotifMgmtGroup**
Object ID:	enterprises.8164.1.100.3.3.2.1
Description:	A collection of objects related with notification management on CF Report Engine.
Objects:	**starCfEmsMcrdbsHostAddress starCfEmsDbType starCfEmsSourceDbFileName starCfEmsCdpHostAddress starCfEmsFromDbType starCfEmsToDbType starCfEmsDestDbFileName**
Object Group:	**starCFRENotifGroup**

Object ID: enterprises.8164.1.100.3.3.2.2

Description: A collection of CF-CDP notifications.

Objects: **starCfReStart starCfReStop starCfReRestart starCfReFileParsingAborted starCfReThreshCPUUtilization starCfReClearThreshCPUUtilization starCfReThreshDiskUtilization starCfReClearThreshDiskUtilization starCfDbThreshCPUUtilization starCfDbClearThreshCPUUtilization starCfDbThreshDiskUtilization starCfDbClearThreshDiskUtilization**

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFREMIB(3).starCFREMIBConformances(3)

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCfReMIB(3).starCfReMIBConformances(3).starCfReMIBGroup(2)

Object Group: **starCFEMSNotifMgmtGroup**

Object ID: enterprises.8164.1.100.3.3.2.1

Description: A collection of objects related with notification management on CF Report Engine.

Objects: **starCfEmsMcrdbsHostAddress starCfEmsDbType starCfEmsSourceDbFileName starCfEmsCdpHostAddress starCfEmsFromDbType starCfEmsToDbType starCfEmsDestDbFileName**

Object Group: **starCFRENotifGroup**

Object ID: enterprises.8164.1.100.3.3.2.2

Description: A collection of CF-CDP notifications.

Objects: **starCfReStart starCfReStop starCfReRestart starCfReFileParsingAborted starCfReThreshCPUUtilization starCfReClearThreshCPUUtilization starCfReThreshDiskUtilization starCfReClearThreshDiskUtilization starCfDbThreshCPUUtilization starCfDbClearThreshCPUUtilization starCfDbThreshDiskUtilization starCfDbClearThreshDiskUtilization**

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFCCIMIB(4)

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCfCciMIB(4).starCfCciMIBConformances(3).starCfCciMIBGroup(2)

Object Group:	**starCFEMSNotifGroup**
Object ID:	enterprises.8164.1.100.4.3.2.1
Description:	A collection of CF-CDP notifications.
Objects:	**starCfEmsServerProcStart starCfEmsServerProcStop starCfEmsDbImportFailed starCfEmsDbImportSucceeded starCfEmsDbExportFailed starCFEMSDbExportSucceeded starCfEmsDbConversionFailed starCfEmsDbConversionSucceeded starCfEmsFtpConnetionFailed**

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFCCIMIB(4)

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCfCciMIB(4).starCfCciMIBConformances(3).starCfCciMIBGroup(2)

Object Group:	**starCFEMSNotifGroup**
Object ID:	enterprises.8164.1.100.4.3.2.1
Description:	A collection of CF-CDP notifications.
Objects:	**starCfEmsServerProcStart starCfEmsServerProcStop starCfEmsDbImportFailed starCfEmsDbImportSucceeded starCfEmsDbExportFailed starCFEMSDbExportSucceeded starCfEmsDbConversionFailed starCfEmsDbConversionSucceeded starCfEmsFtpConnetionFailed**

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFCCIMIB(4)

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCfCciMIB(4).starCfCciMIBConformances(3).starCfCciMIBGroup(2)

Object Group:	**starCFEMSNotifGroup**
Object ID:	enterprises.8164.1.100.4.3.2.1
Description:	

A collection of CF-CDP notifications.

Objects: **starCfEmsServerProcStart starCfEmsServerProcStop starCfEmsDbImportFailed starCfEmsDbImportSucceeded starCfEmsDbExportFailed starCFEMSDbExportSucceeded starCfEmsDbConversionFailed starCfEmsDbConversionSucceeded starCfEmsFtpConnetionFailed**

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFCCIMIB(4)

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCfCciMIB(4).starCfCciMIBConformances(3).starCfCciMIBGroup(2)

Object Group: **starCFEMSNotifGroup**

Object ID: enterprises.8164.1.100.4.3.2.1

Description: A collection of CF-CDP notifications.

Objects: **starCfEmsServerProc Start starCfEmsServerProcStop starCfEmsDbImportFailed starCfEmsDbImportSucceeded starCfEmsDbExportFailed starCFEMSDbExportSucceeded starCfEmsDbConversionFailed starCfEmsDbConversionSucceeded starCfEmsFtpConnetionFailed**

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFMCRDBSMIB(6)

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCfMcrdbsMIB(6).starCfMcrdbsMIBConformances(3)

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFMCRDBSMIB(6).starCFMCRDBSMIBConformances(3).starCFMCRDBSMIBGroup(2)

Object Group: **starCFMDBNotifMgmtGroup**

Object ID: enterprises.8164.1.100.6.3.2.1

Description: A collection of objects related with notification management on CF-MCRDBS.

Objects: **starCfParseFileName**

Object Group:	**starCFMDBNotifGroup**
Object ID:	enterprises.8164.1.100.6.3.2.2
Description:	A collection of CF-MCRDBS notifications.
Objects:	**starCfMdbProcStart starCfMdbProcStop starCfMdbProcDbAbsent starCfMdbProcApiOpFailed starCfMdbProcDbParseErrot starCfMdbProcMemUsageOverLimit starCfMdbProcmemUsageNormal starCfMdbProcCpuUsageOverLimit starCfMdbProcCpuUsageNormal starCfMdbProcDiskUsageOverLimit starCfMdbProcDiskUsageNormalstarCfMdbProcInvalidFileName starCfMdbProcReportErrWithMsg starCfMdbProcCfdcmErrWithMsg starCfMdbProcMcrdbsErrWithMsg**

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFMCRDBSMIB(6)

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCfMcrdbsMIB(6).starCfMcrdbsMIBConformances(3)

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFMCRDBSMIB(6).starCFMCRDBSMIBConformances(3).starCFMCRDBSMIBGroup(2)

Object Group:	**starCFMDBNotifMgmtGroup**
Object ID:	enterprises.8164.1.100.6.3.2.1
Description:	A collection of objects related with notification management on CF-MCRDBS.
Objects:	**starCfParseFileName**
Object Group:	**starCFMDBNotifGroup**
Object ID:	enterprises.8164.1.100.6.3.2.2
Description:	A collection of CF-MCRDBS notifications.
Objects:	**starCfMdbProcStart starCfMdbProcStop starCfMdbProcDbAbsent starCfMdbProcApiOpFailed starCfMdbProcDbParseErrot starCfMdbProcMemUsageOverLimit starCfMdbProcmemUsageNormal starCfMdbProcCpuUsageOverLimit starCfMdbProcCpuUsageNormal starCfMdbProcDiskUsageOverLimit**

**starCfMdbProcDiskUsageNormalstarCfMdbProcInvalidFileName
starCfMdbProcReportErrWithMsg starCfMdbProcCfdcmErrWithMsg
starCfMdbProcMcrdbsErrWithMsg**

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFMCRDBSMIB(6)

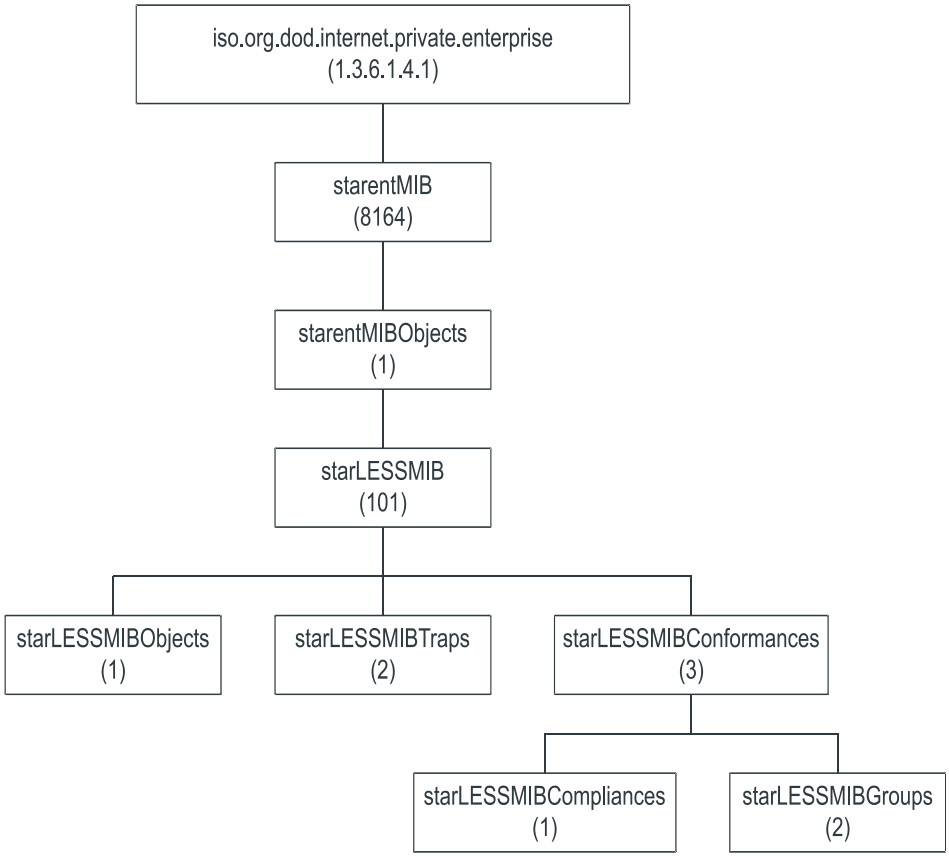
starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCfMcrdbsMIB(6).starCfMcrdbsMIBConformances(3)

starentMIB(8164).starentMIBObjects(1).starentCFMIB(100).starCFMCRDBSMIB(6).starCFMCRDBSMIBConformances(3).starCFMCRDBSMIBGroup(2)

Object Group:	**starCFMDBNotifMgmtGroup**
Object ID:	enterprises.8164.1.100.6.3.2.1
Description:	A collection of objects related with notification management on CF-MCRDBS.
Objects:	**starCfParseFileName**
Object Group:	**starCFMDBNotifGroup**
Object ID:	enterprises.8164.1.100.6.3.2.2
Description:	A collection of CF-MCRDBS notifications.
Objects:	**starCfMdbProcStart starCfMdbProcStop starCfMdbProcDbAbsent starCfMdbProcApiOpFailed starCfMdbProcDbParseErrot starCfMdbProcMemUsageOverLimit starCfMdbProcmemUsageNormal starCfMdbProcCpuUsageOverLimit starCfMdbProcCpuUsageNormal starCfMdbProcDiskUsageOverLimit starCfMdbProcDiskUsageNormalstarCfMdbProcInvalidFileName starCfMdbProcReportErrWithMsg starCfMdbProcCfdcmErrWithMsg starCfMdbProcMcrdbsErrWithMsg**

Chapter 6
ESS Application MIB

The figure that follows illustrates the hierarchical structure of the management information base (MIB) for the ESS application.



MIB Textual Conventions

starentMIB(8164).starentMIBObjects(1). starentLESSMIB(101)

starentMIB(8164).starentMIBObjects(1).starentLESSMIB(101). starLESSMIBObjects(1)

Object:	**starLESSNotifRaisedTime**
Object ID:	enterprises.8164.1.101.1.1
Description:	This object indicates the time when this notification was generated. This will be current system's time in seconds.
Syntax:	Integer32
Access:	Accessible-for-notify

Object:	**starLESSNotifInfo**
Object ID:	enterprises.8164.1.101.1.2
Description:	A textual description of L-ESS notification, which contains additional information (more than the type of alarm). If the text of the message exceeds 64 bytes, the message be truncated to 63 bytes and a '*' character will be appended to indicate that the message has been truncated.
Syntax:	DisplayString (SIZE (1..64))
Access:	Accessible-for-notify

Object:	**starLESSInstance**
Object ID:	enterprises.8164.1.101.1.3
Description:	This object indicates the L-ESS Application Instance number.
Syntax:	Integer32
Access:	Accessible-for-notify

Object: **starLESSNodeName**

Object ID: enterprises.8164.1.101.1.4

Description: This object indicates the L-ESS Application node name.

Syntax: DisplayString (SIZE (1..64))

Access: Accessible-for-notify

Object: **starLESSApplicationType**

Object ID: enterprises.8164.1.101.1.5

Description: This object indicates the L-ESS Application Type (pull / push / transfer). Pull (1) is L-ESS Pull application Push (2) is L-ESS Push application Transfer (3) is L-ESS Transfer application

Syntax:
```
INTEGER {
    unknown(0),
    pull(1),
    push(2),
    transfer(3)
}
```

Access: Accessible-for-notify

Object: **starLESSThreshInt**

Object ID: enterprises.8164.1.101.1.6

Description: This object indicates the configured value of a thresholded parameter.

Syntax: Integer32

Access: Accessible-for-notify

Object: **starLESSThreshMeasuredInt**

Object ID: enterprises.8164.1.101.1.7

Description: This object indicates the measured value of a thresholded parameter.

Syntax: Integer32

Access:	Accessible-for-notify

Object: starLESSRuleBaseName

Object ID:	enterprises.8164.1.101.1.8
Description:	This object indicates the name of the rulebase present in filename.
Syntax:	DisplayString (SIZE (1..64))
Access:	Accessible-for-notify

Object: starLESSSTXName

Object ID:	enterprises.8164.1.101.1.9
Description:	This object indicates the name of the STX.
Syntax:	DisplayString (SIZE (1..64))
Access:	Accessible-for-notify

Object: starLESSStartofMissedRange

Object ID:	enterprises.8164.1.101.1.10
Description:	This object indicates the beginning of the range within which L-ESS has missed files.
Syntax:	DisplayString (SIZE (1..15))
Access:	Accessible-for-notify

Object: starLESSEndofMissedRange

Object ID:	enterprises.8164.1.101.1.11
Description:	This object indicates the end of the range within which L-ESS has missed files.
Syntax:	DisplayString (SIZE (1..15))
Access:	Accessible-for-notify

Object: starLESSFileType

Object ID:	enterprises.8164.1.101.1.12

Description: This object indicates the name of the rulebase present in filename.

Syntax: DisplayString (SIZE (1..3))

Access: Accessible-for-notify

Object: starLESSRemoteHostName

Object ID: enterprises.8164.1.101.1.13

Description: This object indicates the name of the STX.

Syntax: DisplayString (SIZE (1..64))

Access: Accessible-for-notify

Object: starLessMountPoint

Object ID: enterprises.8164.1.101.1.14

Description: Mount point where disk is mounted

Syntax: DisplayString(SIZE(1..64)

Access: Accessible for Notifye

starentMIB(8164).starentMIBObjects(1). starentLESSMIB(101)

starentMIB(8164).starentMIBObjects(1).starentLESSMIB(101). starLESSMIBTraps(2)

Object: starLESSApplicationStart

Object ID: enterprises.8164.1.101.2.1

Description: This notification is generated when L-ESS application has started.

Objects: starLESSNotifRaisedTime
starLESSNodeName
starLESSInstance
starLESSApplicationType

Object:	**starLESSApplicationReStart**
Object ID:	enterprises.8164.1.101.2.2
Description:	This notification is generated when L-ESS application has restarted.
Objects:	**starLESSNotifRaisedTime** **starLESSNodeName** **starLESSInstance** **starLESSApplicationType**
Object:	**starLESSApplicationStop**
Object ID:	enterprises.8164.1.101.2.3
Description:	This notification is generated when L-ESS application has stopped.
Objects:	**starLESSNotifRaisedTime** **starLESSNodeName** **starLESSInstance** **starLESSApplicationType** **starLESSNotifInfo**
Object:	**starLESSApplicationTerminated**
Object ID:	enterprises.8164.1.101.2.4
Description:	This notification is generated when L-ESS application has been terminated.
Objects:	**starLESSNotifRaisedTime** **starLESSNodeName** **starLESSInstance** **starLESSApplicationType**
Object:	**starLESSPullIntervalMissed**
Object ID:	enterprises.8164.1.101.2.5
Description:	This notification is generated when L-ESS application has missed pull interval.
Objects:	**starLESSNotifRaisedTime** **starLESSNodeName** **starLESSInstance**
Object:	**starLESSThreshDiskUsage**
Object ID:	enterprises.8164.1.101.2.6

Description: This notification is generated when total disk space used is beyond configured threshold. **Probable Cause**: This is a user configurable threshold. **Condition Clear Alarm**: A **starLESSThreshClearDiskUsage** notification will be generated when the measured value falls below the configured threshold.

Objects: **starLESSNotifRaisedTime**
starLESSNodeName
starLESSThreshMeasuredInt
starLESSThreshInt

Object: **starLESSThreshClearDiskUsage**

Object ID: enterprises.8164.1.101.2.7

Description: This notification is generated when total disk used is below configured threshold.Threshold condition is now clear.

Objects: **starLESSNotifRaisedTime**
starLESSNodeName
starLESSThreshMeasuredInt
starLESSThreshInt

Object: **starLESSFileMissed**

Object ID: enterprises.8164.1.101.2.8

Description: This notification is generated when L-ESS application has missed pulling files from STX. **Probable Cause**: File at STX side has been deleted before L-ESS fetching it. **Clear Condition**: There is no clear condition for this notification. **Condition Clear Alarm**: There is no clear alarm for this notification.

Objects: **starLESSNotifRaisedTime**
starLESSNodeName
starLESSInstance
starLESSRuleBaseName
starLESSFileType
starLESSSTXName
starLESSStartofMissedRange
starLESSEndofMissedRange
starLESSNotifInfo

Object: **starLESSRemoteConnectionFail**

Object ID: enterprises.8164.1.101.2.9

Description: This notification is generated when L-ESS application is unable to set up the connection with remote host. **Probable Cause**: No route to host, Authentication failure, Host Unreachable, etc. **Clear Condition**: This condition is cleared when L-

ESS is able to setup the connection with remote host. **Condition Clear Alarm**: This condition is cleared by a **starRemoteConnectionEstablished** notification.

Objects: **starLESSNotifRaisedTime**
starLESSNodeName
starLESSInstance
starLESSApplicationType
starLESSRemoteHostName
starLESSNotifInfo

Object: **starLESSRemoteConnectionEstablished**

Object ID: enterprises.8164.1.101.2.10

Description: This notification is generated when L-ESS application is able to set up the connection with remote host. **Probable Cause**: Connection established with remote host.

Objects: **starLESSNotifRaisedTime**
starLESSNodeName
starLESSInstance
starLESSApplicationType
starLESSRemoteHostName

Object: **starLESSFileTransferFail**

Object ID: enterprises.8164.1.101.2.11

Description: This notification is generated when L-ESS application is failing to transfer file. **Probable Cause**: This trap could be raised when pull or push process fails to transfer files continuously. Reasons for this failure could be network errors, disk space unavailable at destination, Destination directory unavailable, etc. **Clear Condition**: This condition is cleared when successful file transfer begins. **Condition Clear Alarm**: This condition is cleared by a **starLESSFileTransferComplete** notification.

Objects: **starLESSNotifRaisedTime**
starLESSNodeName
starLESSInstance
starLESSApplicationType
starLESSRemoteHostName
starLESSFileType
starLESSNotifInfo

Object: **starLESSFileTransferComplete**

Object ID: enterprises.8164.1.101.2.12

Description: This notification is generated when L-ESS application is able to transfer file. **Probable Cause**: The problems due to which L-ESS was unable to transfer file have resolved and pull or push process has restarted file transfer.

Objects: **starLESSNotifRaisedTime**
starLESSNodeName
starLESSInstance
starLESSApplicationType
starLESSRemoteHostName
starLESSFileType

Object: **starLESSThreshPendingFiles**

Object ID: enterprises.8164.1.101.2.13

Description: This notification is generated when total pending files for this host are beyond configured threshold. **Probable Cause**: This is a user configurable threshold. The **starLESSThreshPendingFiles** notification will be generated by pull or push process when the total number of files pending for transfer in source directory are beyond configured threshold. **Clear Condition**: This condition is cleared when number of pending files at source directory falls below configured threshold. **Condition Clear Alarm**: This condition is cleared by a **starLESSThreshClearPendingFiles** notification.

Objects: **starLESSNotifRaisedTime**
starLESSNodeName
starLESSInstance
starLESSApplicationType
starLESSSTXName
starLESSFileType
starLESSThreshMeasuredInt
starLESSThreshInt

Object: **starLESSThreshClearPendingFiles**

Object ID: enterprises.8164.1.101.2.14

Description: This notification is generated when total pending files for this host are below configured threshold. **Probable Cause**: This is a user configurable threshold. The **starLESSThreshPendingFiles** notification will be generated by pull or push process when the total number of files pending for transfer in source directory falls below configured threshold.

Objects: **starLESSNotifRaisedTime**
starLESSNodeName
starLESSInstance
starLESSApplicationType
starLESSSTXName
starLESSFileType
starLESSThreshMeasuredInt
starLESSThreshInt

Object: **starLESSNewHostFound**

Object ID: enterprises.8164.1.101.2.15

Description: This notification is generated when L-ESS transfer process has detected addition of host. **Probable Cause**: Operator has added host in L-ESS from which files should be transferred to destination.

Objects: **starLESSNotifRaisedTime**
starLESSNodeName
starLESSInstance
starLESSApplicationType
starLESSSTXName

Object: **starLESSHostRemoved**

Object ID: enterprises.8164.1.101.2.16

Description: This notification is generated when L-ESS transfer process has detected removal of existing host. **Probable Cause**: Operator has removed existing host from which L-ESS was already transferring files to destination.

Objects: **starLESSNotifRaisedTime**
starLESSNodeName
starLESSInstance
starLESSApplicationType
starLESSSTXName

starentMIB(8164).starentMIBObjects(1).starentLESSMIB(101). starLESSMIBConformances(3)

starentMIB(8164).starentMIBObjects(1).starentLESSMIB(101). starLESSMIBConformances(3).starLESSMIBCompliances(1)

Object: **starLESSMIBCompliance**

Object ID: enterprises.8164.1.101.3.1.1

Description: The compliance statements for entities which implement the STARENT L-ESS MIB.

Objects: **starLESSNotifMgmtGroup**
starLESSNotifGroup

starentMIB(8164).starentMIBObjects(1).starentLESSMIB(101). starLESSMIBConformances(3).starLESSMIBGroups(2)

Object: **starLESSNotifMgmtGroup**

Object ID: enterprises.8164.1.101.3.2.1

Description: This group is a collection of objects related with notification management on L-ESS.

Objects:
starLESSNotifRaisedTime
starLESSNotifInfo
starLESSInstance
starLESSNodeName
starLESSApplicationType
starLESSThreshMeasuredInt
starLESSThreshInt
starLESSRuleBaseName
starLESSSTXName
starLESSStartofMissedRange
starLESSEndofMissedRange
starLESSFileType
starLESSRemoteHostName

Object: **starLESSNotifGroup**

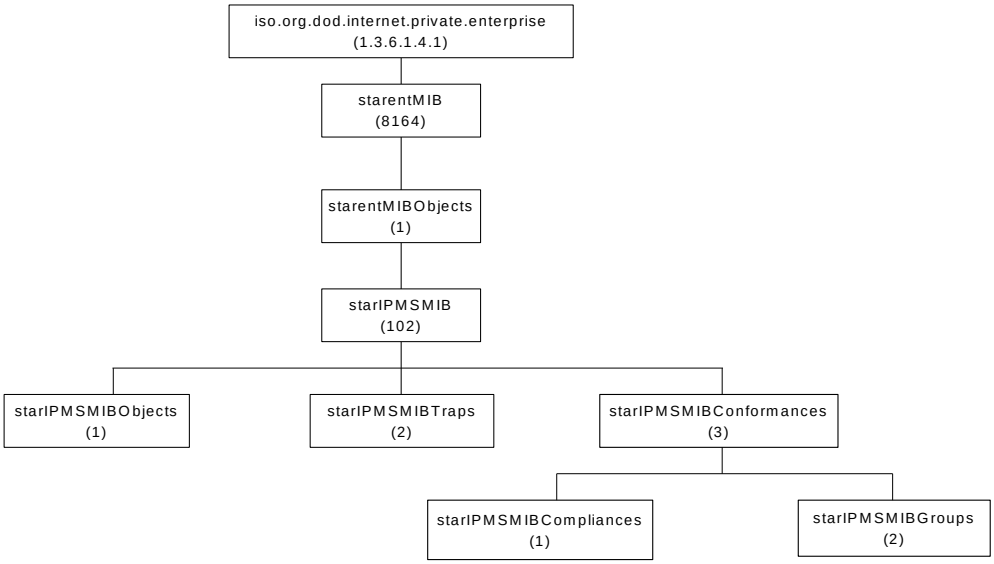
Object ID: enterprises.8164.1.101.3.2.2

Description: This group is a collection of notifications for L-ESS management.

Objects:
starLESSApplicationStart
starLESSApplicationReStart
starLESSApplicationStop
starLESSApplicationTerminated
starLESSPullIntervalMissed
starLESSThreshDiskUsage
starLESSThreshClearDiskUsage
starLESSFileMissed
starLESSRemoteConnectionFail
starLESSRemoteConnectionEstablished
starLESSFileTransferFail
starLESSFileTransferComplete
starLESSThreshPendingFiles
starLESSThreshClearPendingFiles
starLESSNewHostFound
starLESSHostRemoved

Chapter 7
IPMS Application MIB

The figure that follows illustrates the hierarchical structure of the management information base (MIB) for the IPMS application.



MIB Textual Conventions

starentMIB(8164).starentMIBObjects(1). starentIPMSMIB(102)

starentMIB(8164).starentMIBObjects(1).starentIPMSMIB(102). starIPMSMIBObjects(1)

Object:	**starIPMSTimeTicks**
Object ID:	enterprises.8164.1.102.1.1
Description:	This object indicates the time when this notification was generated.
Syntax:	TimeStamp
Access:	Read-Only

Object:	**starIPMSComponentName**
Object ID:	enterprises.8164.1.102.1.2
Description:	This object indicates the name of the IPMS application component.
Syntax:	DisplayString
Access:	Read-Only

Object:	**starIPMSTaskInfo**
Object ID:	enterprises.8164.1.102.1.3
Description:	This object indicates the IPMS process facility name and instance id of the IPMS application.
Syntax:	DisplayString
Access:	Read-Only

Object:	**starIPMSProcessMaxRestartCnt**
Object ID:	enterprises.8164.1.102.1.4

Description: This object indicates the maximum restart counts for IPMS processes.

Syntax: Unsigned32

Access: Read-only

Object: starIPMSProcessRestartWaitTime

Object ID: enterprises.8164.1.102.1.5

Description: This object indicates the waiting period in seconds to restart IPMS processes.

Syntax: Unsigned32

Access: Read-only

Object: starIPMSPacketLossCnt

Object ID: enterprises.8164.1.102.1.6

Description: This object indicates the number of packets detected as lost in the current IPMS process.

Syntax: Unsigned32

Access: Read-only

Object: starIPMSTotalPacketLossCnt

Object ID: enterprises.8164.1.102.1.7

Description: This object indicates the total number of packets detected as lost since IPMS process started.

Syntax: Unsigned32

Access: Read-only

Object: starIPMSDPIFailureReason

Object ID: enterprises.8164.1.102.1.8

Description: This object indicates the deep packet inspection (DPI) failure reasons with packet monitoring attributes.

Syntax:

Integer

Access: Read-only

Enumeration: attributenotpresent(1)
valuenotidentical(2)
valuefunctionfailed(3)

Object: starIPMSDPIDetails

Object ID: enterprises.8164.1.102.1.9

Description: This object indicates the details of the deep packet inspection information of packets with packet monitoring attributes.

Syntax: DisplayString

Access: Read-only

Object: starIPMSEventSource

Object ID: enterprises.8164.1.102.1.10

Description: This object indicates the name of the event source of IPMS processes.

Syntax: DisplayString

Access: Read-only

Object: starIPMSAttribute

Object ID: enterprises.8164.1.102.1.11

Description: This object indicates the name of the IPMS attributes.

Syntax: DisplayString

Access: Read-only

Object: starIPMSResourceType

Object ID: enterprises.8164.1.102.1.12

Description: This object indicates the type of resource facilitate available/used for IPMS application processes.

Syntax: Integer

Access: Read-only

Enumeration:
serverhbd(1)
servmgr(2)
serverevtlog(3)
qryproc(4)
evtproc0(5)
evtproc1(6)
evtproc2(7)
evtproc3(8)
evtproc4(9)
queryhbd(10)
qsmgr(11)
eventlog(12)
reqmgr(13)
ctrlhbd(14)
ctrlmgr(15)
ctrlevtlog(16)
totalcpu(17)
swapmemory(18)
export(19)
log(20)
data(21)
crash(22)
disk(23)
invalid(24)

Object: starIPMSResourceInfoState

Object ID: enterprises.8164.1.102.1.13

Description: This object indicates the information of resource status for IPMS application processes.

Syntax: Integer

Access: Read-only

Enumeration:	available(1) notavailable(2) unknown(3) invalid(4)

Object: starIPMSResourceCurrentValue

Object ID:	enterprises.8164.1.102.1.14
Description:	This object indicates the current value/status of IPMS process resources like CPU, memory, disk space etc.
Syntax:	DisplayString
Access:	Read-only

Object: starIPMSResourceConfThreshold

Object ID:	enterprises.8164.1.102.1.15
Description:	This object indicates the configured threshold values of IPMS process resources like CPU, memory, disk space etc. The value is in Float so mapped to string.
Syntax:	DisplayString
Access:	Read-only

Object: starIPMSPeerName

Object ID:	enterprises.8164.1.102.1.16
Description:	This object indicates the name of the IPMS peer server.
Syntax:	DisplayString
Access:	Read-only

Object: starIPMSPeerIP

Object ID:	enterprises.8164.1.102.1.17
Description:	This object indicates the IP address of the IPMS peer server.
Syntax:	DisplayString

Access:	Read-only

Object: starIPMSPeerPort

Object ID:	enterprises.8164.1.102.1.18
Description:	This object indicates the port number of the IPMS server peer.
Syntax:	DisplayString
Access:	Read-only

Object: starIPMSICMPState

Object ID:	enterprises.8164.1.102.1.19
Description:	This object indicates the status of the Internet Control Message Protocol (ICMP) link between IPMS components and AGW. Possible state is either Up (1) or Down (2).
Syntax:	Integer
Access:	Read-only
Enumeration:	icmpstateup(1) icmpstatedown(2)

Object: starIPMSCORBAState

Object ID:	enterprises.8164.1.102.1.20
Description:	This object indicates the status of the Common Object Request Broker Architecture (CORBA) link between IPMS components and AGW. Possible state is either Up (1) or Down (2).
Syntax:	Integer
Access:	Read-only
Enumeration:	corbasateup(1) corbastatedown(2)

starentMIB(8164).starentMIBObjects(1). starentIPMSMIB(102)

starentMIB(8164).starentMIBObjects(1).starentIPMSMIB(102). starIPMSMIBTraps(2).

Object:	**starIPMSComponentStart**
Object ID:	enterprises.8164.1.102.2.1
Description:	This notification generated when an IPMS component started successfully.
Objects:	**starIPMSComponentName**
Object:	**starIPMSComponentStop**
Object ID:	enterprises.8164.1.102.2.2
Description:	This notification generated when an IPMS component stopped or going for shutting down.
Objects:	**starIPMSComponentName**
Object:	**starIPMSProcessStart**
Object ID:	enterprises.8164.1.102.2.3
Description:	This notification generated when an IPMS process started/restarted successfully.
Objects:	**starIPMSTaskInfo**
Object:	**starIPMSProcessStartFail**
Object ID:	enterprises.8164.1.102.2.4
Description:	This notification generated when an IPMS process failed to start/restart.
Objects:	**starIPMSComponentName** **starIPMSProcessMaxRestartCnt** **starIPMSTaskInfo** **starIPMSProcessRestartWaitTime**
Object:	**starIPMSPacketLossThreshold**
Object ID:	enterprises.8164.1.102.2.5
Description:	

This notification generated when maximum packet loss count from event source reached the threshold limit.

Objects: **starIPMSTaskInfo**
starIPMSEventSource
starIPMSPacketLossCnt
starIPMSTotalPacketLossCnt

Object: **starIPMSDPIFail**

Object ID: enterprises.8164.1.102.2.6

Description: This notification generated when deep packet inspection (DPI) has been detected.

Objects: **starIPMSTaskInfo**
starIPMSEventSource
starIPMSAttribute
starIPMSDPIFailureReason
starIPMSDPIDetails

Object: **starIPMSThresholdExceed**

Object ID: enterprises.8164.1.102.2.7

Description: This notification generated when system exceeds the configured threshold value for IPMS components, resource, processes.

Objects: **starIPMSComponentName**
starIPMSResourceType
starIPMSResourceInfoState
starIPMSResourceCurrentValue
starIPMSResourceConfThreshold

Object: **starIPMSThresholdClear**

Object ID: enterprises.8164.1.102.2.8

Description: This notification generated when system clears the threshold exceed condition for IPMS components, resource, processes.

Objects: **starIPMSComponentName**
starIPMSResourceType
starIPMSResourceInfoState
starIPMSResourceCurrentValue
starIPMSResourceConfThreshold

Object: **starIPMSPeerStateChange**

Object ID: enterprises.8164.1.102.2.9

Description: This notification generated when IPMS Server/Query Server peer changes its state.

Objects:
starIPMSComponentName
starIPMSPeerName
starIPMSPeerIP
starIPMSPeerPort
starIPMSICMPState
starIPMSCORBAState

starentMIB(8164).starentMIBObjects(1).starentIPMSMIB(102).starIPMSMIBConformances(3).starIPMSMIBCompliances(1)

Object: **starIPMSMIBCompliance**

Object ID: enterprises.8164.1.102.3.1.1

Description: The compliance statements for entities which implement the STARENT IPMS MIB.

Objects:
starIPMSObjectGroup
starIPMSNotifGroup

starentMIB(8164).starentMIBObjects(1).starentIPMSMIB(102).starIPMSMIBConformances(3).starIPMSMIBGroups(2)

Object: **starIPMSObjectGroup**

Object ID: enterprises.8164.1.102.3.2.1

Description: This group is a collection of objects related with notification management on IPMS.

Objects:
starIPMSTimeTicks
starIPMSComponentName
starIPMSTaskInfo
starIPMSProcessMaxRestartCnt
starIPMSProcessRestartWaitTime
starIPMSPacketLossCnt
starIPMSTotalPacketLossCnt
starIPMSDPIFailureReason
starIPMSDPIDetails
starIPMSEventSource
starIPMSAttribute

starIPMSResourceType
starIPMSResourceInfoState
starIPMSResourceCurrentValue
starIPMSResourceConfThreshold
starIPMSPeerName
starIPMSPeerIP
starIPMSPeerPort
starIPMSICMPState
starIPMSCORBAState

Object: **starIPMSNotifGroup**

Object ID: enterprises.8164.1.102.3.2.2

Description: This group is a collection of notifications for IPMS management.

Objects:
starIPMSComponentStart
starIPMSComponentStop
starIPMSProcessStart
starIPMSProcessStartFail
starIPMSPacketLossThreshold
starIPMSDPIFail
starIPMSThresholdExceed
starIPMSThresholdClear
starIPMSPeerStateChange

Appendix A
Default Trap Severities

The Web Element Manager application functions as an alarm server by default. Though severity levels are not part of the SNMP protocol for traps, the Web Element Manager application provides a mechanism for assigning severity levels to traps. The following severity levels can be assigned.

- Clear

> **IMPORTANT:** The "Clear" severity is the same as the "Informational" severity in the core platform MIB.

- Informational
- Warning
- Minor
- Major
- Critical
- Indeterminate

This chapter lists the default severity levels assigned to traps supported for the core platform and for the external applications like L/R ESS, Web Element Manager, IPMS application.

Core Platforms Default Trap Severities

The following table lists traps supported by the core platform and their corresponding default severity level as defined within the Web Element Manager application.

Table 1. ST16/ASR 5000 Chassis Default Trap Severity

Trap	Object ID	Default Severity	Clear Alarm OID
starCardTempOverheat	enterprises.8164.2.1	Critical	enterprises.8164.2.2
starCardTempOK	enterprises.8164.2.2	Clear	NA
starCardReset NOTE: This trap is obsolete.	enterprises.8164.2.3	Major	NA
starCardRebootRequest	enterprises.8164.2.4	Major	NA
starCardUp	enterprises.8164.2.5	Clear	NA
starCardVoltageFailure	enterprises.8164.2.6	Critical	enterprises.8164.2.5
starCardRemoved	enterprises.8164.2.7	Critical	enterprises.8164.2.8
starCardInserted	enterprises.8164.2.8	Clear	NA
starCardBootFailed	enterprises.8164.2.9	Major	NA
starCardFailed NOTE: This trap is obsolete.	enterprises.8164.2.10	Critical	NA
starCardSWFailed NOTE: This trap is obsolete.	enterprises.8164.2.11	Critical	NA
starCardRCCFailed NOTE: This trap is obsolete.	enterprises.8164.2.12	Major	NA
starCardMismatch	enterprises.8164.2.13	Major	enterprises.8164.2.5
starCardFailureLEDOn	enterprises.8164.2.14	Major	enterprises.8164.2.15
starCardFailureLEDOff NOTE: This trap is obsolete.	enterprises.8164.2.15	Clear	NA
starCardPACMigrateStart	enterprises.8164.2.16	Major	enterprises.8164.2.17
starCardPACMigrateComplete	enterprises.8164.2.17	Clear	NA
starCardPACMigrateFailed	enterprises.8164.2.18	Major	enterprises.8164.2.5
starCardSPCSwitchoverStart	enterprises.8164.2.19	Major	enterprises.8164.2.20
starCardSPCSwitchoverComplete	enterprises.8164.2.20	Clear	NA
starCardSPCSwitchoverFailed	enterprises.8164.2.21	Critical	enterprises.8164.2.5
starFanFailed	enterprises.8164.2.22	Major	enterprises.8164.2.24

Trap	Object ID	Default Severity	Clear Alarm OID
starFanRemoved	enterprises.8164.2.23	Major	enterprises.8164.2.24
starFanInserted	enterprises.8164.2.24	Clear	NA
starLogThreshold Note: this trap is obsolete.	enterprises.8164.2.25	Minor	NA
starCPUBusy	enterprises.8164.2.26	Major	NA
starCPUMemoryLow	enterprises.8164.2.27	Major	NA
starCPUMemoryFailed	enterprises.8164.2.28	Critical	enterprises.8164.2.5
starCPUFailed	enterprises.8164.2.29	Critical	enterprises.8164.2.5
starCPUWatchDogExpired	enterprises.8164.2.30	Critical	enterprises.8164.2.5
starNPUARPPoolExhausted	enterprises.8164.2.31	Major	NA
starPowerFilterUnitFailed	enterprises.8164.2.32	Major	enterprises.8164.2.34
starPowerFilterUnitUnavail	enterprises.8164.2.33	Major	enterprises.8164.2.34
starPowerFilterUnitAvail	enterprises.8164.2.34	Clear	NA
starAlertsDisabled	enterprises.8164.2.37	Minor	enterprises.8164.2.38
starAlertsEnabled	enterprises.8164.2.38	Clear	NA
starAAAAuthServerUnreachable	enterprises.8164.2.39	Major	enterprises.8164.2.40
starAAAAuthServerReachable	enterprises.8164.2.40	Clear	NA
starAAAAuthServerMisconfigured	enterprises.8164.2.41	Major	enterprises.8164.2.40
starAAAAccServerUnreachable	enterprises.8164.2.42	Major	enterprises.8164.2.43
starAAAAccServerReachable	enterprises.8164.2.43	Clear	NA
starAAAAccServerMisconfigured	enterprises.8164.2.44	Major	enterprises.8164.2.43
starLogMsg	enterprises.8164.2.45	Minor	NA
starPDSNServiceStart	enterprises.8164.2.46	Clear	NA
starPDSNServiceStop	enterprises.8164.2.47	Major	enterprises.8164.2.46
starHAServiceStart	enterprises.8164.2.48	Clear	NA
starHAServiceStop	enterprises.8164.2.49	Major	enterprises.8164.2.48
starFAServiceStart	enterprises.8164.2.50	Clear	NA
starFAServiceStop	enterprises.8164.2.51	Major	enterprises.8164.2.50
starCLISessionStart	enterprises.8164.2.52	Clear	NA
starCLISessionEnd	enterprises.8164.2.53	Clear	NA
starCritTaskFailed	enterprises.8164.2.54	Critical	enterprises.8164.2.5
starCardActive	enterprises.8164.2.55	Clear	NA

Trap	Object ID	Default Severity	Clear Alarm OID
starLACServiceStart	enterprises.8164.2.56	Clear	NA
starLACServiceStop	enterprises.8164.2.57	Major	enterprises.8164.2.56
starLNSServiceStart	enterprises.8164.2.58	Clear	NA
starLNSServiceStop	enterprises.8164.2.59	Major	enterprises.8164.2.58
starCardDown	enterprises.8164.2.60	Critical	enterprises.8164.2.5
dsx3LineStatusChange	enterprises.8164.2.61	Warning	NA
dsx1LineStatusChange	enterprises.8164.2.62	Warning	NA
starGGSNServiceStart	enterprises.8164.2.63	Clear	NA
starGGSNServiceStop	enterprises.8164.2.64	Major	enterprises.8164.2.63
starLicenseExceeded	enterprises.8164.2.65	Major	enterprises.8164.2.94
starSubscriberLimit	enterprises.8164.2.66	Major	NA
starSessionRejectNoResource	enterprises.8164.2.67	Major	NA
starLongDurTimerExpiry	enterprises.8164.2.68	Clear	NA
starClosedRPServiceStart	enterprises.8164.2.69	Clear	NA
starClosedRPServiceStop	enterprises.8164.2.70	Major	enterprises.8164.2.69
starGtpcPathFailure	enterprises.8164.2.71	Major	NA
starGtpuPathFailure	enterprises.8164.2.72	Major	NA
starManagerFailure	enterprises.8164.2.73	Major	NA
starEISServerAlive	enterprises.8164.2.74	Clear	NA
starEISServerDead	enterprises.8164.2.75	Major	enterprises.8164.2.74
starCgfAlive	enterprises.8164.2.76	Clear	NA
starCgfDead	enterprises.8164.2.77	Major	enterprises.8164.2.76
starStorageServerAlive	enterprises.8164.2.78	Clear	NA
starStorageServerDead	enterprises.8164.2.79	Critical	enterprises.8164.2.78
starGgsnInitiatedUpdtFailed	enterprises.8164.2.80	Clear	NA
starCongestion	enterprises.8164.2.81	Major	enterprises.8164.2.82
starCongestionClear	enterprises.8164.2.82	Clear	NA
starServiceLossPTACs	enterprises.8164.2.83	Critical	NA
starServiceLossLC	enterprises.8164.2.84	Critical	NA
starServiceLossSPIO	enterprises.8164.2.85	Warning	NA
starIPSPAllAddrsFree	enterprises.8164.2.86	Minor	NA
starPCFUnreachable	enterprises.8164.2.87	Major	NA

Trap	Object ID	Default Severity	Clear Alarm OID
starDhcpAlive	enterprises.8164.2.88	Clear	NA
starDhcpDead	enterprises.8164.2.89	Major	enterprises.8164.2.88
starNTPPeerUnreachable	enterprises.8164.2.90	Warning	enterprises.8164.2.105
starNTPSyncLost	enterprises.8164.2.91	Major	enterprises.8164.2.106
starL2TPTunnelDownPeerUnreachable	enterprises.8164.2.92	Warning	NA
starCardStandby	enterprises.8164.2.93	Clear	NA
starLicenseUnderLimit	enterprises.8164.2.94	Clear	NA
starIPSECPriTunDown	enterprises.8164.2.95	Major	NA
starIPSECPriTunUp	enterprises.8164.2.96	Clear	NA
starIPSECSecTunDown	enterprises.8164.2.97	Major	NA
starIPSECSecTunUp	enterprises.8164.2.98	Clear	NA
starIPSECTunSwitchFail	enterprises.8164.2.99	Critical	NA
starIPSECTunSwitchComplete	enterprises.8164.2.100	Clear	NA
starNwReachServerAlive	enterprises.8164.2.101	Clear	NA
starNwReachServerDead	enterprises.8164.2.102	Major	NA
starStorageServerUnackedGcdrVolPurge	enterprises.8164.2.103	Critical	NA
starStorageServerUnackedGcdrFileGen	enterprises.8164.2.104	Clear	NA
starNTPPeerReachable	enterprises.8164.2.105	Clear	NA
starNTPSyncEstablished	enterprises.8164.2.106	Clear	NA
starSIPServiceStart	enterprises.8164.2.107	Clear	NA
starSIPServiceStop	enterprises.8164.2.108	Major	NA
starVIMServiceStart	enterprises.8164.2.109	Clear	NA
starVIMServiceStop	enterprises.8164.2.110	Major	NA
starCHATCONFServiceStart	enterprises.8164.2.111	Clear	NA
starCHATCONFServiceStop	enterprises.8164.2.112	Major	NA
starSIPRouteNomatch	enterprises.8164.2.113	Clear	NA
starL3AddrUnreachable	enterprises.8164.2.114	Clear	NA
starSWUpgradeStart	enterprises.8164.2.115	Clear	NA
starSWUpgradeComplete	enterprises.8164.2.116	Clear	NA
starSWUpgradeAborted	enterprises.8164.2.117	Clear	NA
starBGPPeerSessionUp	enterprises.8164.2.118	Clear	NA
starBGPPeerSessionDown	enterprises.8164.2.119	Major	enterprises.8164.2.118

Trap	Object ID	Default Severity	Clear Alarm OID
starSRPActive	enterprises.8164.2.120	Clear	NA
starSRPStandby	enterprises.8164.2.121	Clear	NA
starBGPPeerReachable	enterprises.8164.2.122	Clear	NA
starBGPPeerUnreachable	enterprises.8164.2.123	Warning	enterprises.8164.2.122
starSRPAAAReachable	enterprises.8164.2.124	Clear	NA
starSRPAAAUnreachable	enterprises.8164.2.125	Major	enterprises.8164.2.124
starHASwitchoverInitiated	enterprises.8164.2.126	Clear	NA
starSRPCheckpointFailure	enterprises.8164.2.127	Warning	NA
starSRPConfigOutOfSync	enterprises.8164.2.128	Warning	enterprises.8164.2.129
starSRPConfigInSync	enterprises.8164.2.129	Minor	NA
starGESwitchFailure	enterprises.8164.2.130	Major	NA
starSIPRouteServerAvailable	enterprises.8164.2.131	Clear	NA
starSIPRouteServerUnavailable	enterprises.8164.2.132	Warning	NA
starFMDMaxCallRateReached	enterprises.8164.2.133	Major	enterprises.8164.2.134
starFMDCallRateUnderControl	enterprises.8164.2.134	Clear	NA
starStorageServerCPUBusy	enterprises.8164.2.135	Major	enterprises.8164.2.136
starStorageServerCPUNormal	enterprises.8164.2.136	Clear	NA
starStorageServerDiskSpaceLow	enterprises.8164.2.137	Major	enterprises.8164.2.138
starStorageServerDiskSpaceOK	enterprises.8164.2.138	Clear	NA
starCardSPOFAlarm	enterprises.8164.2.139	Major	enterprises.8164.2.140
starCardSPOFClear	enterprises.8164.2.140	Major	NA
starStorageServerOldGcdrPending	enterprises.8164.2.141	Warning	enterprises.8164.2.142
starStorageServerOldGcdrCleared	enterprises.8164.2.142	Clear	NA
starLoginFailure	enterprises.8164.2.143	Clear	NA
starIPSGServiceStart	enterprises.8164.2.144	Clear	NA
starIPSGServiceStop	enterprises.8164.2.145	Major	enterprises.8164.2.144
starHAUnreachable	enterprises.8164.2.146	Major	enterprises.8164.2.147
starHAReachable	enterprises.8164.2.147	Clear	NA
starASNGWServiceStart	enterprises.8164.2.148	Clear	NA
starASNGWServiceStop	enterprises.8164.2.149	Major	enterprises.8164.2.148
starTaskFailed	enterprises.8164.2.150	Major	enterprises.8164.2.151
starTaskRestart	enterprises.8164.2.151	Clear	NA

Trap	Object ID	Default Severity	Clear Alarm OID
starCSCFServiceStart	enterprises.8164.2.152	Clear	NA
starCSCFServiceStop	enterprises.8164.2.153	Major	enterprises.8164.2.152
starDhcpServiceStarted	enterprises.8164.2.154	Clear	NA
starDhcpServiceStopped	enterprises.8164.2.155	Major	enterprises.8164.2.154
starContFiltDBError	enterprises.8164.2.156	Major	enterprises.8164.2.157
starContFiltDBErrorClear	enterprises.8164.2.157	Informational	NA
starBLDBError	enterprises.8164.2.158	Major	enterprises.8164.2.159
starBLDBErrorClear	enterprises.8164.2.159	Informational	NA
starIPSECDynTunUp	enterprises.8164.2.164	Clear	NA
starIPSECDynTunDown	enterprises.8164.2.165	Minor	enterprises.8164.2.164
starHeartbeat	enterprises.8164.2.166	Clear	NA
starOverloadSystem	enterprises.8164.2.167	Major	enterprises.8164.2.168
starOverloadSystemClear	enterprises.8164.2.168	Clear	NA
starOverloadService	enterprises.8164.2.169	Major	enterprises.8164.2.170
starOverloadServiceClear	enterprises.8164.2.170	Clear	NA
starStorageServerClusterStateChange	enterprises.8164.2.171	Clear	NA
starStorageServerClusSwitchOver	enterprises.8164.2.172	Critical	NA
starStorageServerClusPathFail	enterprises.8164.2.173	Critical	enterprises.8164.2.174
starStorageServerClusPathOK	enterprises.8164.2.174	Clear	NA
starStorageServerClusInterCFail	enterprises.8164.2.175	Critical	enterprises.8164.2.176
starStorageServerClusInterCOK	enterprises.8164.2.176	Clear	NA
starStorageServerClusIntfFail	enterprises.8164.2.177	Critical	enterprises.8164.2.178
starStorageServerClusIntfOK	enterprises.8164.2.178	Clear	NA
starStorageServerMemLow	enterprises.8164.2.179	Critical	enterprises.8164.2.180
starStorageServerMemNormal	enterprises.8164.2.180	Clear	NA
starPDIFServiceStart	enterprises.8164.2.181	Informational	NA
starPDIFServiceStop	enterprises.8164.2.182	Major	enterprises.8164.2.181
starSessMgrRecoveryComplete	enterprises.8164.2.183	Major	NA
starDiameterPeerDown	enterprises.8164.2.184	Major	NA
starDiameterPeerUp	enterprises.8164.2.185	Major	NA
starDiameterServerUnreachable	enterprises.8164.2.186	Major	enterprises.8164.2.187
starDiameterServerReachable	enterprises.8164.2.187	Informational	NA

Trap	Object ID	Default Severity	Clear Alarm OID
starCDRFileRemoved	enterprises.8164.2.188	Major	NA
starCSCFPeerServerReachable	enterprises.8164.2.189	Informational	NA
starCSCFPeerServerUnreachable	enterprises.8164.2.190	Minor	NA
starCLIConfigMode	enterprises.8164.2.192	Informational	NA
starSGSNServiceStart	enterprises.8164.2.194	Informational	NA
starSGSNServiceStop	enterprises.8164.2.195	Major	enterprises.8164.2.194
starSS7M3UAPCUnavailable	enterprises.8164.2.196	Minor	enterprises.8164.2.197
starSS7M3UAPCAvailable	enterprises.8164.2.197	Informational	NA
starThreshCPUUtilization	enterprises.8164.2.200	Warning	enterprises.8164.2.201
starThreshClearCPUUtilization	enterprises.8164.2.201	Clear	NA
starThreshCPUMemory	enterprises.8164.2.202	Warning	enterprises.8164.2.203
starThreshClearCPUMemory	enterprises.8164.2.203	Clear	NA
starThreshLicense	enterprises.8164.2.204	Warning	enterprises.8164.2.205
starThreshClearLicense	enterprises.8164.2.205	Clear	NA
starThreshSubscriberTotal	enterprises.8164.2.206	Warning	enterprises.8164.2.207
starThreshClearSubscriberTotal	enterprises.8164.2.207	Clear	NA
starThreshSubscriberActive	enterprises.8164.2.208	Warning	enterprises.8164.2.209
starThreshClearSubscriberActive	enterprises.8164.2.209	Clear	NA
starThreshPortRxUtil	enterprises.8164.2.210	Warning	enterprises.8164.2.211
starThreshClearPortRxUtil	enterprises.8164.2.211	Clear	NA
starThreshPortTxUtil	enterprises.8164.2.212	Warning	enterprises.8164.2.213
starThreshClearPortTxUtil	enterprises.8164.2.213	Clear	NA
starThreshPortHighActivity	enterprises.8164.2.214	Warning	enterprises.8164.2.215
starThreshClearPortHighActivity	enterprises.8164.2.215	Clear	NA
starThreshAAAAuthFail	enterprises.8164.2.216	Warning	enterprises.8164.2.217
starThreshClearAAAAuthFail	enterprises.8164.2.217	Clear	NA
starThreshAAAAuthFailRate	enterprises.8164.2.218	Warning	enterprises.8164.2.219
starThreshClearAAAAuthFailRate	enterprises.8164.2.219	Clear	NA
starThreshAAAAcctFail	enterprises.8164.2.220	Warning	enterprises.8164.2.221
starThreshClearAAAAcctFail	enterprises.8164.2.221	Clear	NA
starThreshAAAAcctFailRate	enterprises.8164.2.222	Warning	enterprises.8164.2.223
starThreshClearAAAAcctFailRate	enterprises.8164.2.223	Clear	NA

Trap	Object ID	Default Severity	Clear Alarm OID
starThreshAAARetryRate	enterprises.8164.2.224	Warning	enterprises.8164.2.225
starThreshClearAAARetryRate	enterprises.8164.2.225	Clear	NA
starThreshCallSetup	enterprises.8164.2.226	Warning	enterprises.8164.2.227
starThreshClearCallSetup	enterprises.8164.2.227	Clear	NA
starThreshCallSetupFailure	enterprises.8164.2.228	Warning	enterprises.8164.2.229
starThreshClearCallSetupFailure	enterprises.8164.2.229	Clear	NA
starThreshCallRejectNoResource	enterprises.8164.2.230	Warning	enterprises.8164.2.231
starThreshClearCallRejectNoResource	enterprises.8164.2.231	Clear	NA
starThreshPacketsFilteredDropped	enterprises.8164.2.232	Warning	enterprises.8164.2.233
starThreshClearPacketsFilteredDropped	enterprises.8164.2.233	Clear	NA
starThreshPacketsForwarded	enterprises.8164.2.234	Warning	enterprises.8164.2.235
starThreshClearPacketsForwarded	enterprises.8164.2.235	Clear	NA
starThreshSessCPUThroughput	enterprises.8164.2.236	Warning	enterprises.8164.2.237
starThreshClearSessCPUThroughput	enterprises.8164.2.237	Clear	NA
starThreshIPPoolAvail	enterprises.8164.2.238	Warning	enterprises.8164.2.239
starThreshClearIPPoolAvail	enterprises.8164.2.239	Clear	NA
starThreshCPUUtilization10Sec	enterprises.8164.2.240	Warning	enterprises.8164.2.241
starThreshClearCPUUtilization10Sec	enterprises.8164.2.241	Clear	NA
starThreshCPULoad	enterprises.8164.2.242	Warning	enterprises.8164.2.243
starThreshClearCPULoad	enterprises.8164.2.243	Clear	NA
starThreshCPUMemUsage	enterprises.8164.2.244	Warning	enterprises.8164.2.245
starThreshClearCPUMemUsage	enterprises.8164.2.245	Clear	NA
starThreshPDSNSessions	enterprises.8164.2.246	Warning	enterprises.8164.2.247
starThreshClearPDSNSessions	enterprises.8164.2.247	Clear	NA
starThreshGGSNSessions	enterprises.8164.2.248	Warning	enterprises.8164.2.249
starThreshClearGGSNSessions	enterprises.8164.2.249	Clear	NA
starThreshHASessions	enterprises.8164.2.250	Warning	enterprises.8164.2.251
starThreshClearHASessions	enterprises.8164.2.251	Clear	NA
starThreshLNSSessions	enterprises.8164.2.252	Warning	enterprises.8164.2.253
starThreshClearLNSSessions	enterprises.8164.2.253	Clear	NA
starThreshPerServicePDSNSessions	enterprises.8164.2.254	Warning	enterprises.8164.2.255
starThreshClearPerServicePDSNSessions	enterprises.8164.2.255	Clear	NA

Trap	Object ID	Default Severity	Clear Alarm OID
starThreshPerServiceGGSNSessions	enterprises.8164.2.256	Warning	enterprises.8164.2.257
starThreshClearPerServiceGGSNSessions	enterprises.8164.2.257	Clear	NA
starThreshPerServiceHASessions	enterprises.8164.2.258	Warning	enterprises.8164.2.259
starThreshClearPerServiceHASessions	enterprises.8164.2.259	Clear	NA
starThreshPerServiceLNSSessions	enterprises.8164.2.260	Warning	enterprises.8164.2.261
starThreshClearPerServiceLNSSessions	enterprises.8164.2.261	Clear	NA
starThreshIPPoolHold	enterprises.8164.2.262	Warning	enterprises.8164.2.263
starThreshClearIPPoolHold	enterprises.8164.2.263	Clear	NA
starThreshIPPoolUsed	enterprises.8164.2.264	Warning	enterprises.8164.2.265
starThreshClearIPPoolUsed	enterprises.8164.2.265	Clear	NA
starThreshIPPoolRelease	enterprises.8164.2.266	Warning	enterprises.8164.2.267
starThreshClearIPPoolRelease	enterprises.8164.2.267	Clear	NA
starThreshIPPoolFree	enterprises.8164.2.268	Warning	enterprises.8164.2.269
starThreshClearIPPoolFree	enterprises.8164.2.269	Clear	NA
starThreshAAAAcctArchive	enterprises.8164.2.270	Warning	enterprises.8164.2.271
starThreshClearAAAAcctArchive	enterprises.8164.2.271	Clear	NA
starThreshPortSpecRxUtil	enterprises.8164.2.272	Warning	enterprises.8164.2.273
starThreshClearPortSpecRxUtil	enterprises.8164.2.273	Clear	NA
starThreshPortSpecTxUtil	enterprises.8164.2.274	Warning	enterprises.8164.2.275
starThreshClearPortSpecTxUtil	enterprises.8164.2.275	Clear	NA
starThreshHACallSetupRate	enterprises.8164.2.276	Warning	enterprises.8164.2.277
starThreshClearHACallSetupRate	enterprises.8164.2.277	Clear	NA
starThreshHASvcCallSetupRate	enterprises.8164.2.278	Warning	enterprises.8164.2.279
starThreshClearHASvcCallSetupRate	enterprises.8164.2.279	Clear	NA
starThreshHASvcRegReplyError	enterprises.8164.2.280	Warning	enterprises.8164.2.281
starThreshClearHASvcRegReplyError	enterprises.8164.2.281	Clear	NA
starThreshHASvcReregReplyError	enterprises.8164.2.282	Warning	enterprises.8164.2.283
starThreshClearHASvcReregReplyError	enterprises.8164.2.283	Clear	NA
starThreshHASvcDeregReplyError	enterprises.8164.2.284	Warning	enterprises.8164.2.285
starThreshClearHASvcDeregReplyError	enterprises.8164.2.285	Clear	NA
starThreshFASvcRegReplyError	enterprises.8164.2.286	Warning	enterprises.8164.2.287
starThreshClearFASvcRegReplyError	enterprises.8164.2.287	Clear	NA

Trap	Object ID	Default Severity	Clear Alarm OID
starThreshPDSNCallSetupRate	enterprises.8164.2.288	Warning	enterprises.8164.2.289
starThreshClearPDSNCallSetupRate	enterprises.8164.2.289	Clear	NA
starThreshPDSNSvcCallSetupRate	enterprises.8164.2.290	Warning	enterprises.8164.2.291
starThreshClearPDSNSvcCallSetupRate	enterprises.8164.2.291	Clear	NA
starThreshPDSNSvcA11RRPFailure	enterprises.8164.2.292	Warning	enterprises.8164.2.293
starThreshClearPDSNSvcA11RRPFailure	enterprises.8164.2.293	Clear	NA
starThreshPDSNSvcA11RRQMsgDiscard	enterprises.8164.2.294	Warning	enterprises.8164.2.295
starThreshClearPDSNSvcA11RRQMsgDiscard	enterprises.8164.2.295	Clear	NA
starThreshPDSNSvcA11RACMsgDiscard	enterprises.8164.2.296	Warning	enterprises.8164.2.297
starThreshClearPDSNSvcA11RACMsgDiscard	enterprises.8164.2.297	Clear	NA
starThreshPDSNSvcA11PPPSendDiscard	enterprises.8164.2.298	Warning	enterprises.8164.2.299
starThreshClearPDSNSvcA11PPPSendDiscard	enterprises.8164.2.299	Clear	NA
starThreshAAAMgrQueue	enterprises.8164.2.300	Warning	enterprises.8164.2.301
starThreshClearAAAMgrQueue	enterprises.8164.2.301	Clear	NA
starThreshCPUOrbsWarn	enterprises.8164.2.302	Warning	enterprises.8164.2.303
starThreshClearCPUOrbsWarn	enterprises.8164.2.303	Clear	NA
starThreshCPUOrbsCritical	enterprises.8164.2.304	Critical	enterprises.8164.2.305
starThreshClearCPUOrbsCritical	enterprises.8164.2.305	Clear	NA
starThreshRPSetupFailRate	enterprises.8164.2.306	Warning	enterprises.8164.2.307
starThreshClearRPSetupFailRate	enterprises.8164.2.307	Clear	NA
starThreshPPPSetupFailRate	enterprises.8164.2.308	Warning	enterprises.8164.2.309
starThreshClearPPPSetupFailRate	enterprises.8164.2.309	Clear	NA
starThreshStorageUtilization	enterprises.8164.2.310	Warning	enterprises.8164.2.311
starThreshClearStorageUtilization	enterprises.8164.2.311	Clear	NA
starThreshDCCAProtocolErrors	enterprises.8164.2.312	Warning	enterprises.8164.2.313
starThreshClearDCCAProtocolErrors	enterprises.8164.2.313	Clear	NA
starThreshDCCABadAnswers	enterprises.8164.2.314	Warning	enterprises.8164.2.315
starThreshClearDCCABadAnswers	enterprises.8164.2.315	Clear	NA
starThreshDCCAUnknownRatingGroup	enterprises.8164.2.316	Warning	enterprises.8164.2.317
starThreshClearDCCAUnknownRatingGroup	enterprises.8164.2.317	Clear	NA
starThreshDCCARatingFailed	enterprises.8164.2.318	Warning	enterprises.8164.2.319
starThreshClearDCCARatingFailed	enterprises.8164.2.319	Clear	NA

Trap	Object ID	Default Severity	Clear Alarm OID
starThreshIPSECIKERequests	enterprises.8164.2.320	Warning	enterprises.8164.2.321
starThreshClearIPSECIKERequests	enterprises.8164.2.321	Clear	NA
starThreshIPSECIKEFailures	enterprises.8164.2.322	Warning	enterprises.8164.2.323
starThreshClearIPSECIKEFailures	enterprises.8164.2.323	Clear	NA
starThreshIPSECIKEFailRate	enterprises.8164.2.324	Warning	enterprises.8164.2.325
starThreshClearIPSECIKEFailRate	enterprises.8164.2.325	Clear	NA
starThreshIPSECTunSetup	enterprises.8164.2.326	Warning	enterprises.8164.2.327
starThreshClearIPSECTunSetup	enterprises.8164.2.327	Clear	NA
starThreshIPSECTunEstabl	enterprises.8164.2.328	Warning	enterprises.8164.2.329
starThreshClearIPSECTunEstabl	enterprises.8164.2.329	Clear	NA
starThreshIPSECCallReqRej	enterprises.8164.2.330	Warning	enterprises.8164.2.331
starThreshClearIPSECCallReqRej	enterprises.8164.2.331	Clear	NA
starThreshCSCFSvcRouteFailure	enterprises.8164.2.332	Warning	enterprises.8164.2.333
starThreshClearCSCFSvcRouteFailure	enterprises.8164.2.333	Clear	NA
starThreshContFiltRating	enterprises.8164.2.334	Warning	enterprises.8164.2.335
starThreshClearContFiltRating	enterprises.8164.2.335	Clear	NA
starThreshContFiltBlock	enterprises.8164.2.336	Warning	enterprises.8164.2.337
starThreshClearContFiltBlock	enterprises.8164.2.337	Clear	NA
starThreshCDRFileSpace	enterprises.8164.2.338	Warning	enterprises.8164.2.339
starThreshClearCDRFileSpace	enterprises.8164.2.339	Clear	NA
starThreshEDRFileSpace	enterprises.8164.2.340	Warning	enterprises.8164.2.341
starThreshClearEDRFileSpace	enterprises.8164.2.341	Clear	NA
starThreshPDIFCurrSess	enterprises.8164.2.342	Warning	enterprises.8164.2.343
starThreshClearPDIFCurrSess	enterprises.8164.2.343	Informational	NA
starThreshPDIFCurrActSess	enterprises.8164.2.344	Warning	enterprises.8164.2.345
starThreshClearPDIFCurrActSess	enterprises.8164.2.345	Informational	NA
starThreshCDRFlowControl	enterprises.8164.2.346	Informational	enterprises.8164.2.347
starThreshClearCDRFlowControl	enterprises.8164.2.347	Major	NA
starThreshASNGWSessTimeout	enterprises.8164.2.348	Warning	enterprises.8164.2.349
starThreshClearASNGWSessTimeout	enterprises.8164.2.349	Warning	NA
starThreshASNGWSessSetupTimeout	enterprises.8164.2.350	Warning	enterprises.8164.2.351

Trap	Object ID	Default Severity	Clear Alarm OID
starThreshClearASNGWSessSetupTimeout	enterprises.8164.2.351	Warning	NA
starThreshASNGWAuthFail	enterprises.8164.2.352	Warning	enterprises.8164.2.353
starThreshClearASNGWAuthFail	enterprises.8164.2.353	Warning	NA
starThreshASNGWR6InvNai	enterprises.8164.2.354	Warning	enterprises.8164.2.355
starThreshClearASNGWR6InvNai	enterprises.8164.2.355	Warning	NA
starThreshASNGWMaxEAPRetry	enterprises.8164.2.356	Warning	enterprises.8164.2.357
starThreshClearASNGWMaxEAPRetry	enterprises.8164.2.357	Warning	NA
starThreshASNGWNWEntryDenial	enterprises.8164.2.358	Warning	enterprises.8164.2.359
starThreshClearASNGWNWEntryDenial	enterprises.8164.2.359	Warning	NA
starThreshASNGWHandoffDenial	enterprises.8164.2.360	Warning	enterprises.8164.2.361
starThreshClearASNGWHandoffDenial	enterprises.8164.2.361	Warning	NA
starThreshSGSNSessions	enterprises.8164.2.362	Warning	enterprises.8164.2.363
starThreshClearSGSNSessions	enterprises.8164.2.363	Informational	NA
starThreshPerServiceSGSNSessions	enterprises.8164.2.364	Warning	enterprises.8164.2.365
starThreshClearPerServiceSGSNSessions	enterprises.8164.2.365	Informational	NA
starThreshSGSNPdpSessions	enterprises.8164.2.366	Warning	enterprises.8164.2.367
starThreshClearSGSNPdpSessions	enterprises.8164.2.367	Informational	NA
starThreshPerServiceSGSNPdpSessions	enterprises.8164.2.368	Warning	enterprises.8164.2.369
starThreshClearPerServiceSGSNPdpSessions	enterprises.8164.2.369	Informational	NA
starThreshFWDosAttack	enterprises.8164.2.370	Warning	enterprises.8164.2.371
starThreshClearFWDosAttack	enterprises.8164.2.371	Informational	NA
starThreshFWDropPacket	enterprises.8164.2.372	Warning	enterprises.8164.2.373
starThreshClearFWDropPacket	enterprises.8164.2.373	Informational	NA
starThreshFWDenyRule	enterprises.8164.2.374	Warning	enterprises.8164.2.375
starThreshClearFWDenyRule	enterprises.8164.2.375	Informational	NA
starThreshFWNoRule	enterprises.8164.2.376	Warning	enterprises.8164.2.377
starThreshClearFWNoRule	enterprises.8164.2.377	Informational	NA
starThreshPHSGWSessTimeout	enterprises.8164.2.378	Informational	NA
starThreshClearPHSGWSessTimeout	enterprises.8164.2.379	Informational	NA
starThreshPHSGWSessSetupTimeout	enterprises.8164.2.380	Informational	NA
starThreshClearPHSGWSessSetupTimeout	enterprises.8164.2.381	Informational	NA
starThreshPHSGWAuthFail	enterprises.8164.2.382	Informational	NA

Trap	Object ID	Default Severity	Clear Alarm OID
starThreshClearPHSGWAuthFail	enterprises.8164.2.383	Informational	NA
starThreshPHSGWMaxEAPRetry	enterprises.8164.2.384	Informational	NA
starThreshClearPHSGWMaxEAPRetry	enterprises.8164.2.385	Informational	NA
starThreshPHSGWNWEntryDenial	enterprises.8164.2.386	Informational	NA
starThreshClearPHSGWNWEntryDenial	enterprises.8164.2.387	Informational	NA
starThreshPHSGWHandoffDenial	enterprises.8164.2.388	Informational	NA
starThreshClearPHSGWHandoffDenial	enterprises.8164.2.389	Informational	NA
starThreshASNGWSessions	enterprises.8164.2.390	Warning	enterprises.8164.2.391
starThreshClearASNGWSessions	enterprises.8164.2.391	Informational	NA
starThreshPerServiceASNGWSessions	enterprises.8164.2.392	Warning	enterprises.8164.2.393
starThreshClearPerServiceASNGWSessions	enterprises.8164.2.393	Informational	NA
starOSPFNeighborDown	enterprises.8164.2.1001	Minor	enterprises.8164.2.1002
starOSPFNeighborFull	enterprises.8164.2.1002	Informational	NA
starM3UAPSDown	enterprises.8164.2.1004	Major	enterprises.8164.2.1005
starM3UAPSActive	enterprises.8164.2.1005	Informational	NA
starM3UAPSPDown	enterprises.8164.2.1006	Minor	enterprises.8164.2.1007
starM3UAPSPUp	enterprises.8164.2.1007	Informational	NA
starSCCPSspRcvd	enterprises.8164.2.1008	Major	enterprises.8164.2.1009
starSCCPSspClear	enterprises.8164.2.1009	Informational	NA
starSGSNRNCReset	enterprises.8164.2.1010	Informational	NA
starSGSNHLRReset	enterprises.8164.2.1011	Informational	NA
starSGSNGtpcPathFailure	enterprises.8164.2.1012	Major	enterprises.8164.2.1013
starSGSNGtpcPathFailureClear	enterprises.8164.2.1013	Informational	NA
starSGSNGtpuPathFailure	enterprises.8164.2.1014	Major	enterprises.8164.2.1015
starSGSNGtpuPathFailureClear	enterprises.8164.2.1015	Informational	NA
starMTP3LinkOutOfService	enterprises.8164.2.1016	Minor	enterprises.8164.2.1017
starMTP3LinkInService	enterprises.8164.2.1017	Informational	NA
starMTP3LinkSetUnAvailable	enterprises.8164.2.1018	Major	enterprises.8164.2.1019
starMTP3LinkSetAvailable	enterprises.8164.2.1019	Informational	NA
starSCTPAssociationFail	enterprises.8164.2.1020	Major	enterprises.8164.2.1021
starSCTPAssociationEstablished	enterprises.8164.2.1021	Informational	NA
starSCTPPathDown	enterprises.8164.2.1022	Minor	enterprises.8164.2.1023

Trap	Object ID	Default Severity	Clear Alarm OID
starSCTPPathUp	enterprises.8164.2.1023	Informational	NA
starPortDown	enterprises.8164.2.1024	Error	enterprises.8164.2.1025
starPortUp	enterprises.8164.2.1025	Informational	NA
starBSReachable 	enterprises.8164.2.1026	Informational	enterprises.8164.2.1027
starBSUnreachable	enterprises.8164.2.1027	Major	NA
starSystemStartup	enterprises.8164.2.1028	Informational	NA
starMTP3PCUnavailable	enterprises.8164.2.1029	Major	enterprises.8164.2.1030
starMTP3PCAvailable	enterprises.8164.2.1030	Informational	NA
starSS7PCUnavailable	enterprises.8164.2.1031	Major	enterprises.8164.2.1032
starSS7PCAvailable	enterprises.8164.2.1032	Informational	NA
starDiameterCapabilitiesExchangeFailure	enterprises.8164.2.1035	Major	enterprises.8164.2.1036
starDiameterCapabilitiesExchangeSuccess	enterprises.8164.2.1036	Informational	NA
starSRPConnDown	enterprises.8164.2.1037	Error	enterprises.8164.2.1038
starSRPConnUp	enterprises.8164.2.1038	Informational	NA
starDiameterIpv6PeerUp	enterprises.8164.2.1040	Informational	NA
starIPMSServerReachable	enterprises.8164.2.1042	Informational	NA
starSDHSectionDown	enterprises 8164.2.1048	Major	enterprises 8164.2.1049
starSDHSectionUp	enterprises 8164.2.1049	Informational	NA
starSDHPathHopDown	enterprises 8164.2.1050	Major	enterprises 8164.2.1051
starSDHPathHopUp	enterprises 8164.2.1051	Informational	NA
starSDHLopDown	enterprises 8164.2.1052	Major	enterprises 8164.2.1053
starSDHLopUp	enterprises 8164.2.1053	Informational	NA
starSS7PCCongested	enterprises.8164.2.1056	Informational	enterprises.8164.2.1057
starSS7PCCongestionCleared	enterprises.8164.2.1057	Informational	NA
starPHSGWServiceStart	enterprises.8164.2.1058	Information	enterprises.8164.2.1059
starPHSGWServiceStop	enterprises.8164.2.1059	Information	NA
starGPRSServiceStart	enterprises.8164.2.1060	Inforamtional	enterprises.8164.2.1061
starGPRSServiceStop	enterprises.8164.2.1061	Informational	NA
starGPRSNseDown	enterprises.8164.2.1062	Informational	enterprises.8164.2.1063
starGPRSNseUp	enterprises.8164.2.1063	Informational	NA
starGPRSNsvcDown	enterprises.8164.2.1064	Informational	enterprises.8164.2.1065
starGPRSNsvcUp	enterprises.8164.2.1065	Informational	NA

Trap	Object ID	Default Severity	Clear Alarm OID
starGPRSBvcDown	enterprises.8164.2.1066	Informational	enterprises.8164.2.1067
starGPRSBvcUp	enterprises.8164.2.1067	Informational	NA
starSDHE1TribDown	enterprises.8164.2.1068	Major	enterprises.8164.2.1069
starSDHE1TribUp	enterprises.8164.2.1069	Informational	NA
starSDHFractE1LMIDown	enterprises.8164.2.1070	Major	enterprises.8164.2.1071
starSDHFractE1LMIUp	enterprises.8164.2.1071	Informational	NA
starPHSPCServiceStart	enterprises.8164.2.1072	Information	enterprises.8164.2.1073
starPHSPCServiceStop	enterprises.8164.2.1073	Information	NA
starM3UAPSPCongested	enterprises.8164.2.1074	Major	enterprises.8164.2.1075
starM3UAPSPCongestedClear	enterprises.8164.2.1075	Informational	NA
starStorageFailed	enterprises.8164.2.1076	Major	enterprises.8164.2.7
starRaidFailed	enterprises.8164.2.1077	Major	enterprises.8164.2.1078
starRaidStarted	enterprises.8164.2.1078	Informational	NA
starRaidDegraded	enterprises.8164.2.1079	Major	enterprises.8164.2.1080
starRaidRecovered	enterprises.8164.2.1080	Informational	NA
starPGWServiceStart	enterprises.8164.2.1081	Information	enterprises.8164.2.1082
starPGWServiceStop	enterprises.8164.2.1082	Information	NA
starSGWServiceStart	enterprises.8164.2.1083	Information	enterprises.8164.2.1084
starSGWServiceStop	enterprises.8164.2.1084	Information	NA
starEGTPServiceStart	enterprises.8164.2.1085	Information	enterprises.8164.2.1086
starEGTPServiceStop	enterprises.8164.2.1086	Information	NA
starLMAServiceStart	enterprises.8164.2.1087	Information	enterprises.8164.2.1088
starLMAServiceStop	enterprises.8164.2.1088	Information	NA
starMAGServiceStart	enterprises.8164.2.1089	Information	enterprises.8164.2.1090
starMAGServiceStop	enterprises.8164.2.1090	Information	NA
starMMEServiceStart	enterprises.8164.2.1091	Information	enterprises.8164.2.1092
starMMEServiceStop	enterprises.8164.2.1092	Information	NA
starHSGWServiceStart	enterprises.8164.2.1093	Information	enterprises.8164.2.1094
starHSGWServiceStop	enterprises.8164.2.1094	Information	NA
starCPUBusyClear	enterprises.8164.2.1095	Information	NA
starCPUMemoryLowClear	enterprises.8164.2.1096	Information	NA
starFNGServiceStart	enterprises.8164.2.1097	Infromation	enterprises.8164.2.1098

Trap	Object ID	Default Severity	Clear Alarm OID
starFNGServiceStop	enterprises.8164.2.1098	Inforamtion	NA
starManagerRestart	enterprises.8164.2.1099	Information	NA
starConfigurationUpdate	enterprises.8164.2.1100	Information	NA
starEgtpcPathFailure	enterprises.8164.2.1112	Information	NA
starEgtpcPathFailureClear	enterprises.8164.2.1113	Information	NA
starEgtpuPathFailure	enterprises.8164.2.1119	Information	NA
starEgtpuPathFailureClear	enterprises.8164.2.1120	Information	NA

Web Element Manager Default Trap Severities

The following table lists traps supported by the Web Element Manager and their corresponding default severity level as defined within the Web Element Manager application.

Table 2. Web Element Manager Default Trap Severity

Trap	Object ID	Default Severity	Clear Alarm OID
starEmsFmEmailFailed	enterprises.8164.1.1000.2.3	Warning	NA
starEmsFmScriptFailed	enterprises.8164.1.1000.2.4	Warning	NA
starEmsFmSyslogFailed	enterprises.8164.1.1000.2.5	Warning	NA
starEmsWebServerProcStart	enterprises.8164.1.1000.2.6	Clear	NA
starEmsWebServerProcStop	enterprises.8164.1.1000.2.7	Major	NA
starEmsWebServerProcCPUUsageOverLimit	enterprises.8164.1.1000.2.8	Major	enterprises.8164.1.1000.2.9
starEmsWebServerProcCPUUsageNormal	enterprises.8164.1.1000.2.9	Clear	NA
starEmsDataBaseProcStart	enterprises.8164.1.1000.2.10	Clear	NA
starEmsDataBaseProcStop	enterprises.8164.1.1000.2.11	Critical	enterprises.8164.1.1000.2.10
starEmsDataBaseProcCPUUsageOverLimit	enterprises.8164.1.1000.2.12	Major	enterprises.8164.1.1000.2.13
starEmsDataBaseProcCPUUsageNormal	enterprises.8164.1.1000.2.13	Clear	NA
starEmsServerProcStart	enterprises.8164.1.1000.2.14	Clear	NA
starEmsServerProcStop	enterprises.8164.1.1000.2.15	Critical	NA
starEmsServerProcCPUUsageOverLimit	enterprises.8164.1.1000.2.16	Major	enterprises.8164.1.1000.2.17
starEmsServerProcCPUUsageNormal	enterprises.8164.1.1000.2.17	Clear	NA
starEmsScriptServerProcStart	enterprises.8164.1.1000.2.18	Clear	NA
starEmsScriptServerProcStop	enterprises.8164.1.1000.2.19	Major	NA
starEmsScriptServerProcCPUUsageOverLimit	enterprises.8164.1.1000.2.20	Major	enterprises.8164.1.1000.2.21
starEmsScriptServerProcCPUUsageNormal	enterprises.8164.1.1000.2.21	Clear	NA
starEmsServerDirAccessible	enterprises.8164.1.1000.2.22	Clear	NA
starEmsServerDirNonAccessible	enterprises.8164.1.1000.2.23	Major	enterprises.8164.1.1000.2.22
starEmsServerDirUsageOverLimit	enterprises.8164.1.1000.2.24	Major	enterprises.8164.1.1000.2.25
starEmsServerDirUsageNormal	enterprises.8164.1.1000.2.25	Clear	NA
starEmsDataBaseDirAccessible	enterprises.8164.1.1000.2.26	Clear	NA
starEmsDataBaseDirNonAccessible	enterprises.8164.1.1000.2.27	Major	enterprises.8164.1.1000.2.26

Trap	Object ID	Default Severity	Clear Alarm OID
starEmsDataBaseDirUsageOverLimit	enterprises.8164.1.1000.2.28	Major	enterprises.8164.1.1000.2.29
starEmsDataBaseDirUsageNormal	enterprises.8164.1.1000.2.29	Clear	NA
starEmsFTPDirAccessible	enterprises.8164.1.1000.2.30	Clear	NA
starEmsFTPDirNonAccessible	enterprises.8164.1.1000.2.31	Major	enterprises.8164.1.1000.2.30
starEmsFTPDirUsageOverLimit	enterprises.8164.1.1000.2.32	Major	enterprises.8164.1.1000.2.33
starEmsFTPDirUsageNormal	enterprises.8164.1.1000.2.33	Clear	NA
starEmsBlkArchDirAccessible	enterprises.8164.1.1000.2.34	Clear	NA
starEmsBlkArchDirNonAccessible	enterprises.8164.1.1000.2.35	Major	enterprises.8164.1.1000.2.34
starEmsBlkArchDirUsageOverLimit	enterprises.8164.1.1000.2.36	Major	enterprises.8164.1.1000.2.37
starEmsBlkArchDirUsageNormal	enterprises.8164.1.1000.2.37	Clear	NA
starEmsInterfaceStateUp	enterprises.8164.1.1000.2.38	Clear	NA
starEmsInterfaceStateDown	enterprises.8164.1.1000.2.39	Major	enterprises.8164.1.1000.2.38
starEmsCPUUsageOverLimit	enterprises.8164.1.1000.2.40	Major	enterprises.8164.1.1000.2.41
starEmsCPUUsageNormal	enterprises.8164.1.1000.2.41	Clear	NA
starEmsSwapUsageOverLimit	enterprises.8164.1.1000.2.42	Major	enterprises.8164.1.1000.2.43
starEmsSwapUsageNormal	enterprises.8164.1.1000.2.43	Clear	NA
starEmsPCFtpFailed	enterprises.8164.1.1000.2.44	Warning	NA
starEmsPCFileDeletionFailed	enterprises.8164.1.1000.2.45	Warning	NA
starEmsBulkStatFtpFailed	enterprises.8164.1.1000.2.46	Major	enterprises.8164.1.1000.2.47
starEmsBulkStatFtpClear	enterprises.8164.1.1000.2.47	Clear	NA
starEmsXMLFtpFailed	enterprises.8164.1.1000.2.48	Major	NA
starEmsXMLFtpSuccess	enterprises.8164.1.1000.2.49	Clear	NA
starEmsIMGUnmanageable	enterprises.8164.1.1000.2.50	Major	enterprises.8164.1.1000.2.51
starEmsIMGManageable	enterprises.8164.1.1000.2.51	Clear	NA
starEmsPortMonThresholdBelowLimit	enterprises.8164.1.1000.2.52	Warning	enterprises.8164.1.1000.2.53
starEmsPortMonThresholdNormal	enterprises.8164.1.1000.2.53	Clear	NA
starEmsPortMonError	enterprises.8164.1.1000.2.54	Warning	NA
starEmsWebServerProcDetectRestart	enterprises.8164.1.1000.2.55	Clear	NA
starEmsDataBaseProcDetectRestart	enterprises.8164.1.1000.2.56	Clear	NA
starEmsServerProcDetectRestart	enterprises.8164.1.1000.2.57	Clear	NA
starEmsScriptServerProcDetectRestart	enterprises.8164.1.1000.2.58	Clear	NA

Trap	Object ID	Default Severity	Clear Alarm OID
starEmsBulkStatServerProcStart	enterprises.8164.1.1000.2.59	Clear	NA
starEmsBulkStatServerProcStop	enterprises.8164.1.1000.2.60	Major	enterprises.8164.1.1000.2.59
starEmsBulkStatServerProcDetectRestart	enterprises.8164.1.1000.2.61	Clear	NA
starEmsBulkStatServerProcCPUUsageOverLimit	enterprises.8164.1.1000.2.62	Major	enterprises.8164.1.1000.2.63
starEmsBulkStatServerProcCPUUsageNormal	enterprises.8164.1.1000.2.63	Clear	NA
starEmsBulkStatParserProcStart	enterprises.8164.1.1000.2.64	Clear	NA
starEmsBulkStatParserProcStop	enterprises.8164.1.1000.2.65	Major	enterprises.8164.1.1000.2.64
starEmsBulkStatParserProcDetectRestart	enterprises.8164.1.1000.2.66	Clear	NA
starEmsBulkStatParserProcCPUUsageOverLimit	enterprises.8164.1.1000.2.67	Major	enterprises.8164.1.1000.2.68
starEmsBulkStatParserProcCPUUsageNormal	enterprises.8164.1.1000.2.68	Clear	NA
starEmsIMGRateControlStart	enterprises.8164.1.1000.2.69	Critical	NA
starEmsIMGRateControlStop	enterprises.8164.1.1000.2.70	Clear	enterprises.8164.1.1000.2.69
starEmsMonitorQueueFull	enterprises.8164.1.1000.2.71	Clear	NA
starEmsMonitorQueueInLimit	enterprises.8164.1.1000.2.72	Clear	NA
starClusterFailoverHappened	enterprises.8164.1.1000.2.73	Clear	NA
starEmsDBBackupNoDiscSpace	enterprises.8164.1.1000.2.74	Warning	NA
starEMSP2PProtocolUsageHigh	enterprises.8164.1.1000.2.75	Warning	NA
starEmsP2PProtocolUsageLimit	enterprises.8164.1.1000.2.76	Clear	NA
starEmsKeywordDetectedInSyslog	enterprises.8164.1.1000.2.77	Clear	NA
starEmsDBMigration	enterprises.8164.1.1000.2.78	Warning	NA
starEmsNBServerProcStart	enterprises.8164.1.1000.2.79	Clear	NA
starEmsNBServerProcStop	enterprises.8164.1.1000.2.80	Major	NA
starEmsNBServerProcDetectRestart	enterprises.8164.1.1000.2.81	Clear	NA
starEmsNBServerProcCPUUsageOverLimit	enterprises.8164.1.1000.2.82	Major	NA
starEmsNBServerProcCPUUsageNormal	enterprises.8164.1.1000.2.83	Clear	NA
starEmsNotifyServiceProcStart	enterprises.8164.1.1000.2.84	Clear	NA
starEmsNotifyServiceProcStop	enterprises.8164.1.1000.2.85	Major	NA
starEmsNotifyServiceProcDetectRestart	enterprises.8164.1.1000.2.86	Clear	NA
starEmsNotifyServiceProcCPUUsageOverLimit	enterprises.8164.1.1000.2.87	Major	enterprises.8164.1.1000.2.88
starEmsNotifyServiceProcCPUUsageNormal	enterprises.8164.1.1000.2.88	Clear	NA

Trap	Object ID	Default Severity	Clear Alarm OID
starEmsBulkStatCounterThresholdAboveLimit	enterprises.8164.1.1000.2.89	Major	enterprises.8164.1.1000.2.90
starEmsBulkStatCounterThresholdNormal	enterprises.8164.1.1000.2.90	Clear	NA
starEmsCFDBDirAccessible	enterprises.8164.1.1000.2.91	Informational	NA
starEmsCFDBDirNonAccessible	enterprises.8164.1.1000.2.92	Major	enterprises.8164.1.1000.2.91
starEmsCFDBDirUsageOverLimit	enterprises.8164.1.1000.2.93	Major	enterprises.8164.1.1000.2.94
starEmsCFDBDirUsageNormal	enterprises.8164.1.1000.2.94	Information	NA
starEmsCFDbImportFailed	enterprises.8164.1.1000.2.95	Warning	enterprises.8164.1.1000.2.96
starEmsCFDbImportSucceeded	enterprises.8164.1.1000.2.96	Information	NA
starEmsCFDbExportFailed	enterprises.8164.1.1000.2.97	Warning	enterprises.8164.1.1000.2.98
starEmsCFDbExportSucceeded	enterprises.8164.1.1000.2.98	Information	NA
starEmsCFDbConversionFailed	enterprises.8164.1.1000.2.99	Major	enterprises.8164.1.1000.2.100
starEmsCFDbConversionSucceeded	enterprises.8164.1.1000.2.100	Information	NA
starEmsCFFtpConnetionFailed	enterprises.8164.1.1000.2.101	Warning	NA
starEmsBulkStatCounterUsageOverLimit	enterprises.8164.1.1000.2.102	Major	enterprises.8164.1.1000.2.103
starEmsBulkStatCounterUsageNormal	enterprises.8164.1.1000.2.103	Information	NA
starEmsConfigBackupFtpFailed	enterprises.8164.1.1000.2.104	Information	enterprises.8164.1.1000.2.105
starEmsConfigBackupFtpSuccess	enterprises.8164.1.1000.2.105	Information	NA

Content Filtering Default Trap Severities

The following table lists traps supported by the Content Filtering service and their corresponding default severity level as defined within the Content Filtering application.

Table 3. Content Filtering Application Default Trap Severity

Trap	Object ID	Default Severity	Clear Alarm OID
starCfCdpStart	enterprises.8164.1.100.2.2.1	Clear	NA
starCfCdpStop	enterprises.8164.1.100.2.2.2	Critical	enterprises.8164.1.100.2.2.1
starCfCdpRestart	enterprises.8164.1.100.2.2.3	Clear	NA
starCfCdpProcApiOpFailed	enterprises.8164.1.100.2.2.4	Warning	NA
starCfCdpApiVerError	enterprises.8164.1.100.2.2.5	Warning	NA
starCfCdpThreshCPUUtilization	enterprises.8164.1.100.2.2.6	Warning	enterprises.8164.1.100.2.2.7
starCfCdpClearThreshCPUUtilization	enterprises.8164.1.100.2.2.7	Clear	NA
starCfCdpThreshDiskUtilization	enterprises.8164.1.100.2.2.8	Major	enterprises.8164.1.100.2.2.9
starCfCdpClearThreshDiskUtilization	enterprises.8164.1.100.2.2.9	Clear	NA
starCfCdpThreshSwapUtilization	enterprises.8164.1.100.2.2.10	Major	enterprises.8164.1.100.2.2.11
starCfCdpClearThreshSwapUtilization	enterprises.8164.1.100.2.2.11	Clear	NA
starCfReStart	enterprises.8164.1.100.3.2.1	Clear	NA
starCfReStop	enterprises.8164.1.100.3.2.2	Major	enterprises.8164.1.100.3.2.1
starCfReRestart	enterprises.8164.1.100.3.2.3	Clear	NA
starCfReFileParsingAborted	enterprises.8164.1.100.3.2.4	Warning	NA
starCfReThreshCPUUtilization	enterprises.8164.1.100.3.2.5	Major	enterprises.8164.1.100.3.2.6
starCfReClearThreshCPUUtilization	enterprises.8164.1.100.3.2.6	Clear	NA
starCfReThreshDiskUtilization	enterprises.8164.1.100.3.2.7	Major	enterprises.8164.1.100.3.2.8
starCfReClearThreshDiskUtilization	enterprises.8164.1.100.3.2.8	Clear	NA
starCfDbThreshCPUUtilization	enterprises.8164.1.100.3.2.9	Major	enterprises.8164.1.100.3.2.10
starCfDbClearThreshCPUUtilization	enterprises.8164.1.100.3.2.10	Clear	NA
starCfDbThreshDiskUtilization	enterprises.8164.1.100.3.2.11	Major	enterprises.8164.1.100.3.2.12
starCfDbClearThreshDiskUtilization	enterprises.8164.1.100.3.2.12	Clear	NA
starCfCciApplicationStart	enterprises.8164.1.100.4.2.1	Clear	NA
starCfCciApplicationStop	enterprises.8164.1.100.4.2.2	Major	enterprises.8164.1.100.4.2.1

Trap	Object ID	Default Severity	Clear Alarm OID
starCfCciCdpServerReachable	enterprises.8164.1.100.4.2.3	Clear	NA
starCfCciCdpServerUnreachable	enterprises.8164.1.100.4.2.4	Major	enterprises.8164.1.100.4.2.3
starCfCciThreshCPUUtilization	enterprises.8164.1.100.4.2.5	Major	enterprises.8164.1.100.4.2.6
starCfCciClearThreshCPUUtilization	enterprises.8164.1.100.4.2.6	Clear	NA
starCfCciThreshMemoryUtilization	enterprises.8164.1.100.4.2.7	Major	enterprises.8164.1.100.4.2.8
starCfCciClearThreshMemoryUtilization	enterprises.8164.1.100.4.2.8	Clear	NA
starCfMdbProcStart	enterprises.8164.1.100.6.2.1	Informational	NA
starCfMdbProcStop	enterprises.8164.1.100.6.2.2	Critical	enterprises.8164.1.100.6.2.1
starCfMdbProcDbAbsent	enterprises.8164.1.100.6.2.3	Warning	NA
starCfMdbProcApiOpFailed	enterprises.8164.1.100.6.2.4	Warning	NA
starCfMdbProcDbParseError	enterprises.8164.1.100.6.2.5	Warning	NA
starCfMdbProcMemUsageOverlimit	enterprises.8164.1.100.6.2.6	Major	enterprises.8164.1.100.6.2.7
starCfMdbProcMemUsageNormal	enterprises.8164.1.100.6.2.7	Informational	NA
starCfMdbProcCpuUsageOverLimit	enterprises.8164.1.100.6.2.8	Major	enterprises.8164.1.100.6.2.9
starCfMdbProcCpuUsageNormal	enterprises.8164.1.100.6.2.9	Informational	NA
starCfMdbProcDiskUsageOverLimit	enterprises.8164.1.100.6.2.10	Major	enterprises.8164.1.100.6.2.11
starCfMdbProcDiskUsageNormal	enterprises.8164.1.100.6.2.11	Informational	NA
starCfMdbProcInvalidFileName	enterprises.8164.1.100.6.2.12	Warning	NA
starCfMdbProcReportErrWithMsg	enterprises.8164.1.100.6.2.13	Warning	NA
starCfMdbProcCfdcmErrWithMsg	enterprises.8164.1.100.6.2.14	Warning	NA
starCfMdbProcMcrdbsErrWithMsg	enterprises.8164.1.100.6.2.15	Warning	NA

ESS Default Trap Severities

The following table lists traps supported by the Local-External Storage Server (L-ESS) and their corresponding default severity level as defined within the L-ESS application.

Table 4. ESS Application Default Trap Severity

Trap	Object ID	Default Severity	Clear Alarm OID
starLESSApplicationStart	enterprises.8164.1.101.2.1	Clear	NA
starLESSApplicationReStart	enterprises.8164.1.101.2.2	Clear	NA
starLESSApplicationStop	enterprises.8164.1.101.2.3	Warning	NA
starLESSApplicationTerminated	enterprises.8164.1.101.2.4	Critical	NA
starLESSPullIntervalMissed	enterprises.8164.1.101.2.5	Clear	NA
starLESSThreshDiskUsage	enterprises.8164.1.101.2.6	Critical	enterprises.8164.1.101.2.7
starLESSThreshClearDiskUsage	enterprises.8164.1.101.2.7	Clear	NA
starLESSFileMissed	enterprises.8164.1.101.2.8	Warning	NA
starLESSRemoteConnectionFail	enterprises.8164.1.101.2.9	Critical	enterprises.8164.1.101.2.10
starLESSRemoteConnectionEstablished	enterprises.8164.1.101.2.10	Clear	NA
starLESSFileTransferFail	enterprises.8164.1.101.2.11	Critical	enterprises.8164.1.101.2.12
starLESSFileTransferComplete	enterprises.8164.1.101.2.12	Clear	NA
starLESSThreshPendingFiles	enterprises.8164.1.101.2.13	Warning	enterprises.8164.1.101.2.14
starLESSThreshClearPendingFiles	enterprises.8164.1.101.2.14	Clear	NA
starLESSNewHostFound	enterprises.8164.1.101.2.15	Clear	NA
starLESSHostRemoved	enterprises.8164.1.101.2.16	Clear	NA

IPMS Default Trap Severities

The following table lists traps supported by the Intelligent Packet Monitoring system (IPMS) and their corresponding default severity level as defined within the IPMS application.

Table 5. ESS Application Default Trap Severity

Trap	Object ID	Default Severity	Clear Alarm OID
starIPMSTimeTicks	enterprises.8164.1.102.1.1		
starIPMSComponentName	enterprises.8164.1.102.1.2		
starIPMSTaskInfo	enterprises.8164.1.102.1.3		
starIPMSProcessMaxRestartCnt	enterprises.8164.1.102.1.4		
starIPMSProcessRestartWaitTime	enterprises.8164.1.102.1.5		
starIPMSPacketLossCnt	enterprises.8164.1.102.1.6		
starIPMSTotalPacketLossCnt	enterprises.8164.1.102.1.7		
starIPMSDPIFailureReason	enterprises.8164.1.102.1.8		
starIPMSDPIDetails	enterprises.8164.1.102.1.9		
starIPMSEventSource	enterprises.8164.1.102.1.10		
starIPMSAttribute	enterprises.8164.1.102.1.11		
starIPMSResourceType	enterprises.8164.1.102.1.12		
starIPMSResourceInfoState	enterprises.8164.1.102.1.13		
starIPMSResourceCurrentValue	enterprises.8164.1.102.1.14		
starIPMSResourceConfThreshold	enterprises.8164.1.102.1.15		
starIPMSPeerName	enterprises.8164.1.102.1.16		
starIPMSPeerIP	enterprises.8164.1.102.1.17		
starIPMSPeerPort	enterprises.8164.1.102.1.18		
starIPMSICMPState	enterprises.8164.1.102.1.19		
starIPMSCORBAState	enterprises.8164.1.102.1.20		
starIPMSComponentStart	enterprises.8164.1.102.2.1		
starIPMSComponentStop	enterprises.8164.1.102.2.2		
starIPMSProcessStart	enterprises.8164.1.102.2.3		
starIPMSProcessStartFail	enterprises.8164.1.102.2.4		
starIPMSPacketLossThreshold	enterprises.8164.1.102.2.5		

Trap	Object ID	Default Severity	Clear Alarm OID
starIPMSDPIFail	enterprises.8164.1.102.2.6		
starIPMSThresholdExceed	enterprises.8164.1.102.2.7		
starIPMSThresholdClear	enterprises.8164.1.102.2.8		
starIPMSPeerStateChange	enterprises.8164.1.102.2.9		
starIPMSMIBCompliance	enterprises.8164.1.102.3.1.1		
starIPMSObjectGroup	enterprises.8164.1.102.3.2.1		
starIPMSNotifGroup	enterprises.8164.1.102.3.2.2		