Cisco ASR 5x00 Series SNMP MIB Reference
Version 15.0

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Cisco ASR 5x00 Series SNMP MIB Reference

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Core Platforms Chassis Default Trap Severities

WEM Default Trap Severities

CF Default Trap Severities

LESS Default Trap Severities

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MUR Default Trap Severities

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About this Guide

This preface describes the Cisco ASR 5x00 SNMP MIB Reference, how it is organized and its document conventions. This chapter provides the following information:

- Conventions Used
- Supported Documents and Resources
- Contacting Customer Support
# Conventions Used

The following tables describe the conventions used throughout this documentation.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Notice Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="info_icon" /></td>
<td>Information Note</td>
<td>Provides information about important features or instructions.</td>
</tr>
<tr>
<td><img src="image" alt="caution_icon" /></td>
<td>Caution</td>
<td>Alerts you of potential damage to a program, device, or system.</td>
</tr>
<tr>
<td><img src="image" alt="warning_icon" /></td>
<td>Warning</td>
<td>Alerts you of potential personal injury or fatality. May also alert you of potential electrical hazards.</td>
</tr>
</tbody>
</table>

## Typeface Conventions

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

Related Documentation

The most up-to-date information for this product is available in the MIB documentation provided with each product release.

The following documents are available:

- Cisco ASR 5x00 SNMP MIB Reference
- Hardware Installation Guide (hardware dependent)
- Release Change Reference

Obtaining Documentation

The most current Cisco documentation is available on the following website:
http://www.cisco.com/cisco/web/psa/default.html

Use the following path selections to access the SNMP documentation:

Products > Wireless > Mobile Internet> Intelligent Management > Cisco ASR 5000 Element Management System > Configuration Guides> Cisco ASR 5x00 SNMP MIB Reference
Contacting Customer Support

Use the information in this section to contact customer support.

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 are required to access this site. Please contact your Cisco sales or service representative for additional information.
Chapter 1
Starent Chassis Objects

The following figure displays the hierarchical structure of the management information base (MIB) for the core platform.
Figure 1. StarOS MIB Tree

```
iso.org.dod.internet.private.enterprise(1.3.6.1.4.1)

starentMIB(1.1064)

starentMIBObjects(1)  starentMIBTraps(2)  starentMIBConformance(3)

starentChassis(1)  starentSlots(2)  starentSlotMapping(3)  starentFans(4)  starentMBGroups(1)  starentMBCompliances(2)

starentLog(5)  starentAlertMon(8)  starentPower(9)  starentCPU(10)  starentIPUMgr(11)  starentSessionP(12)

starentFeedback(1)  starentPooledLog(2)  starentSessionMgr(13)  starentAAAMgr(14)  starentAIMgr(15)  starentHAMgr(16)

starentFAMgr(17)  starentServiceMgr(18)  starentCLIMgr(19)  starentTaskMgr(20)  starentPPP(21)  starentMPHA(22)

starentMIPFA(23)  starentRP(24)  starentSubscriber(26)  starentEISServer(27)  starentThresholds(28)  starentPort(29)

starentPPool(30)  starentTrapData(31)  starentGSNService(32)  starentL2TP(33)  starentSessSub1(34)  starentNWReachServer(35)

starentIPSec(36)  starentISIPRoute(37)  starentRPSRouteOption(38)  starentCFStats(39)  starentISIPRouteServer(40)  starentVIMSservice(41)

starentGSS(42)  starentPDIFSys(43)  starentPDIFService(44)  starentGSNService(45)  starentSSTP(46)  starentScopNW(47)

starentGTPService(48)  starentPMSServer(49)  starentCert(50)  starentFile(51)  starentFTPServer(52)  starentCGSPoorServer(53)

starentSDH(54)  starentSDHPath(55)  starentE1Trib(56)  starentGPRSLink(57)  starentFractE1Trib(58)  starentStorage(59)

starentFNGSys(60)  starentFNGService(61)  starentPDGSys(62)  starentPDGService(63)  starentPPoolGroup(64)  starentHNBGWService(65)

starentALCAPService(66)  starentMMES1Assoc(67)  starentMMES1Path(70)

336465
```
MIB Textual Conventions

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

Non-Numbered Objects

The following have no Object ID string.

Object

<table>
<thead>
<tr>
<th>Object</th>
<th>Description</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>StarentSlotType</td>
<td>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.</td>
<td>Integer { unknown(1) pactac(2) spc(3) lc(4) rcc(5) spio(6) }</td>
</tr>
</tbody>
</table>

Object

<table>
<thead>
<tr>
<th>Object</th>
<th>Description</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>StarentCardType</td>
<td>Describes the type of a card. Each type represents a physically different card which would have a unique part number.</td>
<td>Integer { none(1) unknown(2) spc(3) pac(4) }</td>
</tr>
</tbody>
</table>
spio(5)
rcc(6)
lceth(7)
lcgeth(8)
lcds3
tac(10)
lcoc3(11)
lcoc12(12)
smc(13)
psc(14)
lcqgeth(15)
letgeth(16)
vmc(17)
vp(18)
vleth1p(19)
lcgeth2(20)
lceth2(21)
psc2(22)
psc3(23)
pscA(24), -- Packet Services Card A
ppc(25), -- Packet Processing Card
lcchan3p2(26), -- Channelized Line card 2 Port
lcchan3p4(27), -- Channelized Line card 4 Port
fanctrl6(28), -- Fan control revision 6
vioc(29) -- Virtual I/O Card
gpdp(30) -- GP-DSP Daughter Card
xme(31), --XME Daughter Card
vop(32), -- VOP Daughter Card
edc(33) -- EDC Card
mio(34) Management & I/O Card
mio10g10p(35) -- Management & 10x10Gb I/O Card
mio10g20p(36) -- Management & 20x10Gb I/O Card
mio40g2p(37) -- Management & 2x40Gb I/O Card
mio40g4p(38) -- Management & 4x40Gb I/O Card
mio40g12p(39) -- Management & 12x40Gb I/O Card
mio(40) -- MIO Daughter Card
fsc(41) -- Fabric Card
dpc(42) -- Data Processing Card
mdpc(43) -- M Data Processing Card
dpcdc(44) -- DPC Daughter Card
ssc(45) -- System Status Card

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 {
  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 {
  unknown(0)
  detection(1)
<table>
<thead>
<tr>
<th>Object</th>
<th>StarShortName</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>N/A</td>
</tr>
<tr>
<td>Description</td>
<td>short identification string. Follows the same conventions as the DisplayString TEXTUAL-CONVENTION.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Octet String (1..32)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>StarShortID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>N/A</td>
</tr>
<tr>
<td>Description</td>
<td>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 (:).</td>
</tr>
<tr>
<td>Syntax</td>
<td>OCTET STRING(1..17)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>StarMediumID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>N/A</td>
</tr>
<tr>
<td>Description</td>
<td>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 (:).</td>
</tr>
<tr>
<td>Syntax</td>
<td>OCTET STRING (SIZE (1..25))</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>StarENBID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>N/A</td>
</tr>
</tbody>
</table>
Description
An eNodeB identifier in the form aaa:bbb:ccccccc

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

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),
extart(5),
extchange(6),
loading(7),
enterprise.8164.1.starentChassis(1)

Object
   starChassisCriticalCO

Object ID
   enterprise.8164.1.1.1

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

Syntax
   StarRelayState

Access
   Read-only

Object
   starChassisMajorCO

Object ID
   enterprise.8164.1.1.2

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

Syntax
   StarRelayState

Access
   Read-only

Object
   starChassisMinorCO

Object ID
   enterprise.8164.1.1.3

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

Syntax
   StarRelayState

Access
   Read-only
Object
  starChassisAction

Object ID
  enterprise.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
  enterprise.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
  enterprise.8164.1.1.7

Description
  The current state of the chassis Audible Alarm.
Syntax
StarRelayState

Access
Read-only

Object
starChassisUTCTime

Object ID
enterprise.8164.1.1.8

Description
The current time on the chassis, in UTC format

Syntax
DateAndTime

Access
Read-only

Object
starChassisLocalTime

Object ID
enterprise.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
enterprise.8164.1.1.10

Description
The physical chassis type

Syntax
Integer

Access
Read-only
**Enumeration**

- unknown(0)
- ST16(1)
- ST40(2)
- SSI(3)
- st20(4)
- asr5000(5)
- asr5500(6)
- ssi(7)

**Object**

- `starChassisDescription`

**Object ID**

`enterprise.8164.1.1.11`

**Description**

Chassis description.

**Syntax**

DisplayString

**Access**

Read-Only

**Object**

- `starChassisSWRevision`

**Object ID**

`enterprise.8164.1.1.12`

**Description**

Software revision

**Syntax**

DisplayString

**Access**

Read-Only

**Object**

- `starChassisPeakCPUUsage`

**Object ID**

`enterprise.8164.1.1.13`
Description
Percentage of the system level peak cpu usage. starChassisPeakCpuUsage is the percentage value times 100; for example, 2.3% would be represented as 230.

Syntax
Integer32(1..10000)

Access
Read-only

Object
starChassisPeakMemoryUsage

Object ID
enterprise.8164.1.1.14

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

Syntax
Integer32(1..2097152)

Access
Read-Only

enterprise.8164.1.starentSlots(2)

Object
starSlotTable

Object ID
enterprise.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
enterprise.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
starSlotNumPorts
starSlotAction
starSlotVoltageState
starSlotNumCPU
starSlotPartNumber
starSlotPartRevision
starSlotSerialNumber
starSlotCLEICode
starSlotCiscoModelName
starSlotCiscoHardwareRev
starSlotCiscoSerialNumber

Object
starSlotNum

Object ID
enterprise.8164.1.2.1.1.1

Description
The slot number.

Syntax
Integer32(1..48)

Access
accessible-for-notify

Object
starSlotType

Object ID
enterprise.8164.1.2.1.1.2

Description
The type of the slot.

Syntax
StarentSlotType

Access
Read-only
Object ID
   enterprise.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
   enterprise.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
   enterprise.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
   enterprise.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
   enterprise.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
   enterprise.8164.1.2.1.1.8

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

### Syntax

```
Integer {
    unknown(1)
    notapplicable(2)
    standby(3)
    active(4)
    activepac(5)
    activetac(6)
    activepsc(7)
    activevpc(8)
    activedpc(9)
}
```

### Access

Read-only

### Object

**Object**

starCardPacStandbyPriority

**Object ID**

enterprise.8164.1.2.1.1.9

**Description**

Specifies the standby priority of the packet accelerator card.

### Syntax

Gauge32

### Access

Read-only

### Object

**Object**

starCardHaltIssued

**Object ID**

enterprise.8164.1.2.1.1.10

**Description**

Only applicable to SPC cards.

**Important:** These cards are no longer supported.
Syntax
Integer

Access
Read-only

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

Object
starCardLock

Object ID
enterprise.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
enterprise.8164.1.2.1.1.12

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

Syntax
Integer

Access
Read-only
### Starent Chassis Objects

#### MIB Textual Conventions

---

**Enumeration**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>no</td>
<td>1</td>
</tr>
<tr>
<td>yes</td>
<td>2</td>
</tr>
</tbody>
</table>

**Object**

starCardUsable

**Object ID**

enterprise.8164.1.2.1.1.13

**Description**

Indicates if the card is currently usable.

**Syntax**

Integer

**Access**

Read-only

---

**Enumeration**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>no</td>
<td>1</td>
</tr>
<tr>
<td>yes</td>
<td>2</td>
</tr>
</tbody>
</table>

**Object**

starCardSinglePOF

**Object ID**

enterprise.8164.1.2.1.1.14

**Description**

Identifies if this card represents a single point of failure (SPOF). 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**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>notapplicable</td>
<td>1</td>
</tr>
<tr>
<td>no</td>
<td>2</td>
</tr>
<tr>
<td>yes</td>
<td>3</td>
</tr>
</tbody>
</table>

**Object**

starCardAttachment
Object ID
enterprise.8164.1.2.1.1.15

Description
Identifies if the card is currently attached to another card (a packet processing card attached to a line card, for example)

Syntax
Integer

Access
Read-only

Enumeration
connected(1)
unconnected(2)

Object
cardTemperature

Object ID
enterprise.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

Important: All of the "voltage"-related starSlot items are obsolete. As systems evolved and different cards have different internal voltages these values had less meaning. The object starSlotVoltageState provides an overall state for the card.

Object
cardVoltage1dot5

Object ID
enterprise.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

Object
starSlotVoltage1dot5LowThresh

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

Object ID
enterprise.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

Object
starSlotVoltage1dot5HighThresh

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

Object ID
enterprise.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

Object
starSlotVoltage1dot8

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

Object ID
enterprise.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

**Object**
starSlotVoltage1dot8LowThresh

---

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

**Object ID**
enterprise.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

**Object**
starSlotVoltage1dot8HighThresh

---

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

**Object ID**
enterprise.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

**Object**
**starSlotVoltage2dot5**

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

**Object ID**
enterprise.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

**Object**
starSlotVoltage2dot5LowThresh

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

**Object ID**
enterprise.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

**Object**
starSlotVoltage2dot5HighThresh

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

**Object ID**
enterprise.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.
**Starent Chassis Objects**

**MIB Textual Conventions**

**Syntax**

Gauge32

**Access**

Read-only

**Object**

starSlotVoltage3dot3

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

**Object ID**

enterprise.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

**Object**

starSlotVoltage3dot3LowThresh

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

**Object ID**

enterprise.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

**Object**

starSlotVoltage3dot3HighThresh

**Important:** This alarm is obsolete. System uses starSlotVoltageState alarm for this notification.
Object ID
enterprise.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

Object
starSlotVoltage5dot0

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

Object ID
enterprise.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

Object
starSlotVoltage5dot0LowThresh

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

Object ID
enterprise.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
### starSlotVoltage5dot0HighThresh

**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.

### starSlotNumPorts

**Description:**
Number of data ports on this card. This value will be 0 for cards that do not contain ports, or for slots which do not contain a card.

**Syntax:**
Gauge32

**Access:**
Read-only

**Important:** This alarm is obsolete.

### starSlotAction

**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
 enterprise.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)
 outofrange(2)

Object
 starSlotNumCpu

Object ID
 enterprise.8164.1.2.1.1.38

Description
 The number of general purpose CPU on this card.

Syntax
 Integer32

Access
 Read-only

Object
 starSlotPartNumber
Object ID
enterprise.8164.1.2.1.1.39

Description
The part number of this card.

Syntax
DisplayString

Access
Read-only

Object
starSlotPartRevision

Object ID
enterprise.8164.1.2.1.1.40

Description
The revision number of this card.

Syntax
DisplayString

Access
Read-only

Object
starSlotSerialNumber

Object ID
enterprise.8164.1.2.1.1.41

Description
The serial number of this card.

Syntax
DisplayString

Access
Read-only

Object
starSlotCLEICode

Object ID
enterprise.8164.1.2.1.1.42

Description
The CLEI code of this card.
Starent Chassis Objects

MIB Textual Conventions

Syntax
DisplayString

Access
Read-only

Object
starSlotCiscoModelName

Object ID
enterprise.8164.1.2.1.1.43

Description
Cisco-defined Product Identifier (PID). The PID is an alphanumeric identifier used to identify specific Cisco product hardware, and may be up to 18 characters in length.

starSlotCiscoModelName will be blank (zero characters) if no PID is available.

Syntax
DisplayString

Access
Read-only

Object
starSlotCiscoHardwareRev

Object ID
enterprise.8164.1.2.1.1.44

Description
Cisco-defined Version Identifier (VID). The VID is used to track the version of the Customer-Orderable Cisco Product Identifier (PID) [starSlotCiscoModelName]. The data convention for VID is 'V' followed by a two digit number. VID numbering typically begins at 'V01' but can be initiated at a higher value.

starSlotCiscoModelName will be blank (zero characters) if no PID is available.

Syntax
DisplayString

Access
Read-only

Object
starSlotCiscoSerialNumber

Object ID
enterprise.8164.1.2.1.1.45

Description
Cisco-defined Serial Number (SN). The SN is an 11 character identifier used in conjunction with the Cisco Product Identifier (PID) [starSlotCiscoModelName] to identify a unique product or Field Replaceable Unit (FRU) of a product.
starSlotCiscoSerialNumber will be blank (zero characters) if no VID is available.

**Syntax**
DisplayString

**Access**
Read-only

**enterprise.8164.1.starentSlotMapping(3)**

**Object**
starSlotMappingTable

**Object ID**
enterprise.8164.1.3.1

**Description**
A table identifying all of the slot mappings.
This table is applicable only to starChassisType ASR5000 platform.

**Syntax**
Sequence of StarSlotMappingEntry

**Access**
not-accessible

**Object**
starSlotMappingEntry

**Object ID**
enterprise.8164.1.3.1.1

**Description**
Information about a particular slot mapping.

**Syntax**
StarSlotMappingEntry

**Access**
not-accessible

**Sequence**
starSlotMappingNum Index
starSlotMappingType
starSlotMappingRCCNum
starSlotMappingToSlot
**StarSlotMappingNum**

**Object ID**
enterprise.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

**Object**

**StarSlotMappingType**

**Object ID**
enterprise.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**
enterprise.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
enterprise.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

enterprise.8164.1.starentFans(4)

Object
starFanTable

Object ID
enterprise.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
enterprise.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
enterprise.8164.1.4.1.1.1

Description
The fan controller number.

Syntax
Integer32(1..4)

Access
accessible-for-notify

Object

starFanLocation

Object ID
enterprise.8164.1.4.1.1.2

Description
The physical location of the fan controller.

Syntax
Integer

Access
Read-only

Enumeration
upper(1)
lower(2)
lowerFront(3)
lowerRear(4)
upperFront(5)
upperRear(6)

Object

starFanStatus
Object ID
enterprise.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
enterprise.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)

enterprise.8164.1.starentLogs(5)

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

Object
  starLogTable

Object ID
type enterprise.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
type enterprise.8164.1.5.1.1

Description
Information about a particular system log.

Syntax
StarLogEntry

Access
not-accessible

Sequence
  starLogName  StarShortName
starLogCurSize
starLogMaxSize
starLogText

Object

starLogName

Object ID
enterprise.8164.1.5.1.1.1

Description
The name of the system log.

Syntax
StarShortName

Access
accessible-for-notify

Object

starLogCurSize

Object ID
enterprise.8164.1.5.1.1.2

Description
The size, in bytes, of this log.

Syntax
Gauge32

Access
Read-only

Object

starLogMaxSize

Object ID
enterprise.8164.1.5.1.1.3

Description
The maximum size, in bytes, of this log.

Syntax
Gauge32

Access
Read-only
starLogText

Object ID
enterprise.8164.1.5.1.1.4

Description
For use in LogMsg trap.

Syntax
Octet String (SIZE (1..512))

Access
Read-only

enterprise.8164.1.starentAlertMan(8)

enterprise.8164.1.8.starentFeedback(1)

Object
starMaxAlertsPerTime

Object ID
enterprise.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
enterprise.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

enterprise.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

enterprise.8164.1.8.starentPolledLog(2)

None for this release.

enterprise.8164.1.starentPower(9)

Object

starPowerTable

Object ID

enterprise.8164.1.9.1

Description

A table containing information about all power filters.

Syntax

Sequence of StarPowerEntry

Access

not-accessible

Object

starPowerEntry

Object ID

enterprise.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
   enterprise.8164.1.9.1.1.1

Description
   The identifying number for this power filter.

Syntax
   Integer

Access
   accessible-for-notify

Enumeration
   powerA(1)
   powerB(2)

Object
   starPowerState

Object ID
   enterprise.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)

enterprise.8164.1.starentCPU(10)

Object
starCPUTable

Object ID
enterprise.8164.1.10.1

Description
A table containing information about all CPUs

Syntax
Sequence of StarCPUEntry

Access
not-accessible

Object
starCPUEntry

Object ID
enterprise.8164.1.10.1.1

Description
Information about a particular CPU.

Syntax
StarCPUEntry

Access
not-accessible

Sequence
starCPUSlot Integer32
starCPUNumber Integer32
starCPUUser Gauge32
starCPUSystem Gauge32
starCPUIdle Gauge32
starCPUIO Gauge32
starCPUURQ Gauge32
starCPULoad1Min Gauge32
starCPULoad5Min Gauge32
starCPULoad15Min Gauge32
Object

starCPUSlot

Object ID
enterprise.8164.1.10.1.1.1

Description
The slot number of the card holding this CPU.

Syntax
Integer32(1..48) for this release.
Integer32(1..16) prior to release 14.0.

Access
accessible-for-notify

Object

starCPUNumber

Object ID
enterprise.8164.1.10.1.1.2

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

Syntax
Integer32(0..3)

Access
accessible-for-notify

Object

starCPUUser

Object ID
enterprise.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
Gauge32(1..10000)
Access
Read-only

Object

starCPUSystem

Object ID
enterprise.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
Gauge32(1..10000)

Access
Read-only

Object

starCPUIdle

Object ID
enterprise.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
Gauge32(1..10000)

Access
Read-only

Object

starCPUIO

Object ID
enterprise.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
Gauge32(1..10000)

Access
Read-only
Object
starCPURQ

Object ID
enterprise.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
Gauge32(1..10000)

Access
Read-only

Object
starCPULoad1Min

Object ID
enterprise.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
Gauge32(1..10000)

Access
Read-only

Object
starCPULoad5Min

Object ID
enterprise.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
Gauge32 (1..10000)

Access
Read-only

Object
starCPULoad15Min
Object ID
enterprise.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
Gauge32(1..10000)

Access
Read-only

Object
starCPUMemTotal

Object ID
enterprise.8164.1.10.1.1.14

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

Syntax
Integer32(1..2147483647) for this release.
Integer32(1..2097152)

Access
Read-only

Object
starCPUMemUsed

Object ID
enterprise.8164.1.10.1.1.15

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

Syntax
Gauge32(1..2147483647)

Access
Read-only

Object
starCPUNumProcesses

Object ID
enterprise.8164.1.10.1.1.16
Description
The total number of processes which exist on this CPU.

Syntax
Gauge32(1..32768)

Access
Read-only

Object
starCPUMemCached

Object ID
enterprise.8164.1.10.1.1.17

Description
The total amount of memory consumed by the (reusable) memory cache on this CPU, in kilobytes

Syntax
Gauge32 (1..2147483647)

Access
Read-only

enterprise.8164.1.starentNPUMgr(11)

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

Object
starNPUMgrTable

Object ID
enterprise.8164.1.11.1

Description
A table containing information about all NPU Managers.

Syntax
Sequence of StarNPUMgrEntry

Access
not-accessible

Object
starNPUMgrEntry

Object ID
enterprise.8164.1.11.1.1
Description
Information about a particular NPU Manager.

Syntax
StarNPUMgrEntry

Access
not-accessible

Sequence
starNPUMgrNumber

Object
starNPUMgrNumber

Object ID
enterprise.8164.1.11.1.1.1

Description
The identity of this NPU.

Syntax
Integer32(1..65535)

Access
accessible-for-notify

enterprise.8164.1.starentSessInP(12)

Object
starSessInProgCalls

Object ID
enterprise.8164.1.12.1

Description
The number of sessions currently in progress.

Syntax
Gauge32

Access
Read-only

Object
starSessInProgActiveCalls

Object ID
enterprise.8164.1.12.2
**Description**
The number of sessions with active calls.

**Syntax**
Gauge32

**Access**
Read-only

**Object**
starSessInProgDormantCalls

**Object ID**
enterprise.8164.1.12.3

**Description**
The number of sessions associated with dormant calls.

**Syntax**
Gauge32

**Access**
Read-only

**Object**
starSessInProgArrived

**Object ID**
enterprise.8164.1.12.4

**Description**
The number of sessions in the arrived state.

**Syntax**
Gauge32

**Access**
Read-only

**Object**
starSessInProgLCPNeg

**Object ID**
enterprise.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
    enterprise.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
    enterprise.8164.1.12.7

Description
    The number of sessions in the authenticating state.

Syntax
    Gauge32

Access          Read-only

Object
    starSessInProgAuthenticated

Object ID
    enterprise.8164.1.12.8

Description
    The number of sessions in the authenticated state.

Syntax
    Gauge32

Access          Read-only

Object
    starSessInProgIPCPUp
Object ID
enterprise.8164.1.12.9

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

Syntax
Gauge32

Access
Read-only

Object
tarSessInProgSIPConn

Object ID
enterprise.8164.1.12.10

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

Syntax
Gauge32

Access
Read-only

Object
tarSessInProgMIPConn

Object ID
enterprise.8164.1.12.11

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

Syntax
Gauge32

Access
Read-only

Object
tarSessInProgDisc

Object ID
enterprise.8164.1.12.12

Description
The number of sessions in the disconnecting state.
enterprise.8164.1.starentSessMgr(13)

Object
starSessMgrCount

Object ID
enterprise.8164.1.13.1

Description
The total number of session manager instances.

Syntax
Gauge32

Access
Read-only

Object
starSessTtlArrived

Object ID
enterprise.8164.1.13.2

Description
The total number of requested sessions.

Syntax
Gauge32

Access
Read-only

Object
starSessTtlRejected

Object ID
enterprise.8164.1.13.3

Description
The total number of rejected sessions.

Syntax
Gauge32
Access
Read-only

Object

starSessTtlConnected

Object ID
text: enterprise.8164.1.13.4

Description
The total number of sessions which were connected.

Syntax
Gauge32

Access
Read-only

Object

starSessTtlAuthSucc

Object ID
text: enterprise.8164.1.13.5

Description
The total number of sessions where authentication was successful.

Syntax
Gauge32

Access
Read-only

Object

starSessTtlAuthFail

Object ID
text: enterprise.8164.1.13.6

Description
The total number of sessions which failed authentication.

Syntax
Gauge32

Access
Read-only

Object

starSessTtlLCPUp
Object ID
enterprise.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
enterprise.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
enterprise.8164.1.13.9

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

Syntax
Gauge32

Access
Read-only

Object
starSessTtlKeepFail

Object ID
enterprise.8164.1.13.10

Description
The total number of sessions which had a keep alive failure.
Syntax
Gauge32

Access
Read-only

Object
starSessTtlOctForwarded

**Important:** Status of this object is obsolete. System uses starSessTtlOctForwardedRev1 object for this notification.

Object ID
enterprise.8164.1.13.11

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

Syntax
Counter32

Units
Megabytes

Access
Read-only

Object
starSessTtlOctForwardedRev1

Object ID
enterprise.8164.1.13.11

Description
The total number of octets forwarded (data + control). This object deprecates the old starSessTtlOctForwarded object.

Syntax
Counter64

Units
Megabytes

Access
Read-only

Object
starSessTtlRPRRegAccept
Object ID
enterprise.8164.1.13.12

Description
The total number of Initial RRQ Accepted.

Syntax
Counter32

Access
Read-only

Object
starSessTtlRPRegAcceptInterPDSN

Object ID
enterprise.8164.1.13.13

Description
The total number of Inter PDSN Handoff RRQ Accepted.

Syntax
Counter32

Access
Read-only

Object
starPPPCurrSessions

Object ID
enterprise.8164.1.13.14

Description
The current number of PPP sessions

Syntax
Counter32

Access
Read-only

Object
starSessTtlTxBytes

Important: Status of this object is obsolete. System uses starSessTtlTxBytesRev1 object for this notification.

Object ID
enterprise.8164.1.13.15
**Starent Chassis Objects**

**MIB Textual Conventions**

---

**Description**
The total number of bytes transmitted from mobiles

**Syntax**
Counter32

**Units**
Megabytes

**Access**
Read-only

**Object**

starSessTtlTxBytesRev1

**Object ID**
enterprise.8164.1.13.15

---

**Description**
The total number of bytes transmitted from mobiles. This object deprecates the old starSessTtlTxBytes object.

**Syntax**
Counter64

**Units**
Megabytes

**Access**
Read-only

**Object**

starSessTtlRxBytes

---

**Important:** Status of this object is obsolete. System uses starSessTtlRxBytesRev1 object for this notification.

**Object ID**
enterprise.8164.1.13.16

---

**Description**
The total number of bytes received by mobiles.

**Syntax**
Counter32

**Units**
Megabytes

**Access**
Read-only
Object

starSessTtlRxBytesRev1

Object ID

enterprise.8164.1.13.16

Description

The total number of bytes received by mobiles. This object deprecates the old starSessTtlRxBytes object.

Syntax

Counter64

Units

Megabytes

Access

Read-only

Object

starSessTtlSIPTxBytes

Important: Status of this object is obsolete. System uses starSessTtlSIPTxBytesRev1 object for this notification.

Object ID

enterprise.8164.1.13.17

Description

The total number of bytes transmitted from mobiles using SIP.

Syntax

Counter32

Units

Megabytes

Access

Read-only

Object

starSessTtlSIPTxBytesRev1

Object ID

enterprise.8164.1.13.17

Description

The total number of bytes transmitted from mobiles using SIP. This object deprecates the old starSessTtlSIPTxBytes object.
Starent Chassis Objects

Syntax
Counter64

Units
Megabytes

Access
Read-only

Object
starSessTtlSIPRxBytes

**Important:** Status of this object is obsolete. System uses starSessTtlSIPRxBytesRev1 object for this notification.

Object ID
enterprise.8164.1.13.18

Description
The total number of bytes received by mobiles using SIP

Syntax
Counter32

Units
Megabytes

Access
Read-only

Object
starSessTtlSIPRxBytesRev1

Object ID
enterprise.8164.1.13.18

Description
The total number of bytes received by mobiles using SIP. This object deprecates the old starSessTtlSIPRxBytes object.

Syntax
Counter32

Units
Megabytes

Access
Read-only

Object
starSessTtlSIPRxBytesRev1
Object ID
enterprise.8164.1.13.19

Description
The total number of bytes received by mobiles using SIP. This object deprecates the old starSessTtlSIPRxBytes object.

Syntax
Counter64

Units
Megabytes

Access
Read-only

Object
starSessTtlSIPRxBytes

**Important**: Status of this object is obsolete. System uses starSessTtlMIPTxBytesRev1 object for this notification.

Object ID
enterprise.8164.1.13.20

Description
The total number of bytes transmitted from mobiles using MIP.

Syntax
Counter32

Units
Megabytes

Access
Read-only

Object
starSessTtlMIPTxBytesRev1

Object ID
enterprise.8164.1.13.20

Description
The total number of bytes transmitted from mobiles using MIP. This object deprecates the old starSessTtlMIPTxBytes object.

Syntax
Counter64
Units
Megabytes

Access
Read-only

Object
starSessTtlMIPRxBytes

Important: This object is obsolete. System uses starSessTtlMIPRxBytesRev1 object for this notification.

Object ID
enterprise.8164.1.13.20

Description
The total number of bytes received by mobiles using MIP

Syntax
Counter32

Units
Megabytes

Access
Read-only

Object
starSessTtlMIPRxBytesRev1

Object ID
enterprise.8164.1.13.20

Description
The total number of bytes received by mobiles using MIP. This object deprecates the old starSessTtlMIPRxBytes object.

Syntax
Counter64

Units
Megabytes

Access
Read-only

Object
starSessTtlOctForwardedGB
**Important:** This object is obsolete. System uses starSessTtlOctForwardedGBRev1 object for this notification.

**Object ID**
enterprise.8164.1.13.21

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

**Syntax**
Counter32

**Units**
Gigabytes

**Access**
read-only

---

**Object**
starSessTtlOctForwardedGBRev1

**Object ID**
enterprise.8164.1.13.21

**Description**
The total number of octets forwarded (data + control). This object deprecates the old starSessTtlOctForwardedGB object.

**Syntax**
Counter64

**Units**
Gigabytes

**Access**
read-only

---

**enterprise.8164.1.starentAAAMgr(14)**

**Object**
starAAAMgrCount

**Object ID**
enterprise.8164.1.14.1

**Description**
The total number of AAA manager instances.
Object: starAAATtlRequests

Object ID: enterprise.8164.1.14.2

Description: The total number of AAA requests.

Object: starAAATtlAuthRequests

Object ID: enterprise.8164.1.14.3

Description: The total number of AAA authentication requests.

Object: starAAATtlAcctRequests

Object ID: enterprise.8164.1.14.4

Description: The total number of AAA accounting requests.
<table>
<thead>
<tr>
<th>Object</th>
<th>starAAACurRequests</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.14.5</td>
</tr>
<tr>
<td>Description</td>
<td>The current number of AAA requests.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Gauge32</td>
</tr>
<tr>
<td>Access</td>
<td>Read-only</td>
</tr>
<tr>
<td>Object</td>
<td>starAAACurAuthRequests</td>
</tr>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.14.6</td>
</tr>
<tr>
<td>Description</td>
<td>The current number of AAA authentication requests.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Gauge32</td>
</tr>
<tr>
<td>Access</td>
<td>Read-only</td>
</tr>
<tr>
<td>Object</td>
<td>starAAACurAcctRequests</td>
</tr>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.14.7</td>
</tr>
<tr>
<td>Description</td>
<td>The current number of AAA accounting requests.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Gauge32</td>
</tr>
<tr>
<td>Access</td>
<td>Read-only</td>
</tr>
<tr>
<td>Object</td>
<td>starAAATtlAcctSess</td>
</tr>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.14.8</td>
</tr>
</tbody>
</table>
Description
The total number of AAA accounting sessions.

Syntax
Gauge32

Access
Read-only

Object
starAAACurAcctSess

Object ID
enterprise.8164.1.14.9

Description
The current number of accounting sessions

Syntax
Gauge32

Access
Read-only

Object
starAAATtlAuthSuccess

Object ID
enterprise.8164.1.14.10

Description
The total number of AAA authentication successes.

Syntax
Gauge32

Access
Read-only

Object
starAAATtlAuthFailure

Object ID
enterprise.8164.1.14.11

Description
The total number of AAA authentication failures.
Access
Read-only

enterprise.8164.1.starentA11Mgr(15)

Object
starA11MgrCount

Object ID
enterprise.8164.1.15.1

Description
The total number of A11 manager instances.

Syntax
Gauge32

Access
Read-only

Object
starA11TtlArrived

Object ID
enterprise.8164.1.15.2

Description
The total number of A11 session requests.

Syntax
Gauge32

Access
Read-only

Object
starA11TtlRejected

Object ID
enterprise.8164.1.15.3

Description
The total number of rejected A11 sessions.

Syntax
Gauge32

Access
Read-only
<table>
<thead>
<tr>
<th>Object</th>
<th>starA11TtlDemultiplexed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.15.4</td>
</tr>
<tr>
<td>Description</td>
<td>The total number of demultiplexed A11 sessions.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Counter32</td>
</tr>
<tr>
<td>Access</td>
<td>Read-only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starA11TtlDereg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.15.5</td>
</tr>
<tr>
<td>Description</td>
<td>The total number of A11 deregistrations.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Counter32</td>
</tr>
<tr>
<td>Access</td>
<td>Read-only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starA11CurActive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.15.6</td>
</tr>
<tr>
<td>Description</td>
<td>The current number of active A11 sessions.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Gauge32</td>
</tr>
<tr>
<td>Access</td>
<td>Read-only</td>
</tr>
</tbody>
</table>

**enterprise.8164.1.starentHAMgr(16)**
starHAMgrCount

Object ID
enterprise.8164.1.16.1

Description
The total number of home agent manager instances.

Syntax
Gauge32

Access
Read-only

Object

starHATtlArrived

Object ID
enterprise.8164.1.16.2

Description
The total number of home agent session requests.

Syntax
Counter32

Access
Read-only

Object

starHATtlRejected

Object ID
enterprise.8164.1.16.3

Description
The total number of rejected home agent sessions.

Syntax
Counter32

Access
Read-only

Object

starHATtlDemultiplexed

Object ID
enterprise.8164.1.16.4
Description
The total number of demultiplexed home agent sessions.

Syntax
Counter32

Access
Read-only

Object
starHATtlDereg

Object ID
enterprise.8164.1.16.5

Description
The total number of home agent deregistrations.

Syntax
Counter32

Access
Read-only

Object
starHACurActive

Object ID
enterprise.8164.1.16.6

Description
The current number of active home agent sessions.

Syntax
Gauge32

Access
Read-only

enterprise.8164.1.starentFAMgr(17)

Object
starFAMgrCount

Object ID
enterprise.8164.1.17.1

Description
The total number of foreign agent manager instances.
Syntax
Gauge32

Access
Read-only

Object
gstarFATtlArrived

Object ID
enterprise.8164.1.17.2

Description
The total number of foreign agent session requests.

Syntax
Counter32

Access
Read-only

Object
gstarFATtlRejected

Object ID
enterprise.8164.1.17.3

Description
The total number of rejected foreign agent sessions.

Syntax
Counter32

Access
Read-only

Object
gstarFATtlDemultiplexed

Object ID
enterprise.8164.1.17.4

Description
The total number of demultiplexed foreign agent sessions.
Object
starFATtlDereg

Object ID
enterprise.8164.1.17.5

Description
The total number of foreign agent deregistrations.

Syntax
Counter32

Access
Read-only

Object
starFACurActive

Object ID
enterprise.8164.1.17.6

Description
The current number of active foreign agent sessions.

Syntax
Gauge32

Access
Read-only

enterprise.8164.1.starentService(18)

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

Object
starServiceTable

Object ID
enterprise.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
enterprise.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
enterprise.8164.1.18.1.1.1

Description
The internal identification of the VPN (context).

Syntax
Gauge32

Access
not-accessible

Object starServiceSvcID

Object ID
enterprise.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
enterprise.8164.1.18.1.1.3

Description
The name of the VPN (context).

Syntax
DisplayString

Access
Read-only

Object
starServiceServName

Object ID
enterprise.8164.1.18.1.1.4

Description
The name of the service.

Syntax
DisplayString

Access
Read-only

Object
starServiceSubLimit

Object ID
enterprise.8164.1.18.1.1.5

Description
The configured subscriber limit.

Syntax
Unsigned32
Access

Read-only

Object

starServiceSubCurrent

Object ID

enterprise.8164.1.18.1.1.6

Description

Current subscriber limit.

Syntax

Gauge32

Access

Read-only

Object

starServiceType

Object ID

enterprise.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)
ips(12)
evdoreva(13)
pdif(15)
asnpc(16)
mipv6ha(17)
phsgw(18)
phspc(19)
sgw(20)
pgw(21)
mag(22)
gprs(23)
hsgw(24)
sgsn(25)
mme(26)
pdg(27)
standalonefa(28)
imsue(29)
fng(30)
pccpolicy(31)
pccquota(32)
pccaf(33)
hnbgw(34)
non-anchor-phs-gateway(35)
combination-3g-4g-gateway(36)
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pcp(38)
henbgw-access(39)
henbgw-network(40)
wsg(41)
samog(42)
saegw(43)
ppp_lback(44)
dhcp(45)
imsa(46)
diameter(47)
dhcpv6(48)
lma(49)
crdt-ctl(50)
mme-hss(51)
sgs(52)
cbs(53)
egtp-ingress(54)
egtp-egress(55)
egtp(56)
gtpu(57)
sgtpc(58)
egtp-sv(59)
megad(60)
pcc(61)
ipne(62)
mseg(63)
bng(64)
gs(65)
map(66)
iups(67)
sgtp(68)
lcs(69)

Object
starServiceFAIpAddr

Object ID
enterprise.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
enterprise.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

enterprise.8164.1.starentCLIMgr(19)

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

<table>
<thead>
<tr>
<th>Object</th>
</tr>
</thead>
<tbody>
<tr>
<td>starCLITable</td>
</tr>
</tbody>
</table>

Object ID
enterprise.8164.1.19.1

Description
A table containing information about all interactive CLI sessions.

Syntax
Sequence of StarCLIEntry

Access
not-accessible

<table>
<thead>
<tr>
<th>Object</th>
</tr>
</thead>
<tbody>
<tr>
<td>starCLIEntry</td>
</tr>
</tbody>
</table>

Object ID
enterprise.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
starCLIDatabaseUsername
starCLIRemoteIpAddrType

Object
  starCLIID

Object ID
terdient.8164.1.19.1.1.1

Description
The internal identify of the CLI session.

Syntax
Gauge32

Access
not-accessible

Object
  starCLIUsername

Object ID
terdient.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
terdient.8164.1.19.1.1.3

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

Syntax
DisplayString

Access
Read-only
**starCLIPrivs**

**Object ID**
enterprise.8164.1.19.1.1.4

**Description**
The CLI session privilege level.

**Syntax**
DisplayString

**Access**
Read-only

**Object**
starCLIType

**Object ID**
enterprise.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 {
  unknown(0)
  commandline(1)
  ftp(2)
}

**Access**
Read-only

**Object**
starCLIRemotelpAddrType

---

**Important:** starCLIRemotelpAddrType is introduced for version 14.0 with the OID string enterprise.8164.1.19.1.1.6. Consequently, for 14.0 and later versions, the following objects will use the following scheme: starCLIRemoteIPAddr (1.7); starCLIContext (1.8); and starCLIDatabaseUsername (1.9). Versions before 14.0 will use the following scheme: starCLIRemoteIPAddr (1.6); starCLIContext (1.7); and starCLIDatabaseUsername (1.8).

**Object ID**
enterprise.8164.1.19.1.1.6

**Description**
The type of remote IP address used to access this CLI session
Syntax
InetAddressType

Access
Read-only

Object
starCLIRemoteIPAddr

Object ID
enterprise.8164.1.19.1.1.7 (see note for starCLIRemoteIpAddrType)
enterprise.8164.1.19.1.1.6 (prior to 14.0)

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
InetAddress

Access
Read-only

Object
starCLIContext

Object ID
enterprise.8164.1.19.1.1.8 (see note for starCLIRemoteIpAddrType)
enterprise.8164.1.19.1.1.7 (Prior to 14.0)

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

Syntax
DisplayString

Access
Read-only

Object
starCLIDatabaseUsername

Object ID
enterprise.8164.1.19.1.1.9 (see note for starCLIRemoteIpAddrType)
enterprise.8164.1.19.1.1.8 (Prior to 14.0)

Description
The username of the user record in the database which was acted upon by the CLI session.
Syntax
DisplayString

Access
Read-only

definition
enterprise.8164.1.starentTaskMgr(20)
The objects in this table are not accessible via SNMP. They are intended for use within traps.

Object
starTaskTable

Object ID
enterprise.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
enterprise.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
enterprise.8164.1.20.1.1.1

Description
The internal identify of the facility.

Syntax
Unsigned32

Access	not-accessible

Object
starTaskInstance

Object ID
enterprise.8164.1.20.1.1.2

Description
The internal instance identifier which uniquely identifies this task without a given facility.

Syntax
Unsigned32

Access
accessible-for-notify

Object
starTaskFacilityName

Object ID
enterprise.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
enterprise.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
enterprise.8164.1.20.1.1.5

Description
The CPU number where the task is running.

Syntax
Unsigned32

Access
Read-only

enterprise.8164.1.starentPPP(21)

Object
starPPPStatTable

Object ID
enterprise.8164.1.21.1

Description
A table containing PPP statistics.

Syntax
Sequence of StarPPPStatEntry

Access
not-accessible

Object
starPPPStatEntry

Object ID
enterprise.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
starPPPStatDiscPPPKepalive
starPPPStatDiscNoResource
starPPPStatDiscMisc
starPPPStatFailedReneg
starPPPStatLcpFailUnknown
starPPPStatLcpFailUnknown
starPPPStatAuthAbort
starPPPStatLowerLayerDisc
starPPPStatLcpSuccess
starPPPStatAuthSuccess
starPPPStatRenegLowerLayerHandoff
starPPPStatRenegParamUpdate
starPPPStatChapAuthSuccess
starPPPStatPapAuthSuccess
starPPPStatMSChapAuthSuccess
starPPPStatChapAuthAbort
starPPPStatPapAuthAbort
starPPPStatMSChapAuthAbort
starPPPStatSessSkipAuth
starPPPStatNegComp
starPPPStatCCPNegFailComp
starPPPStatDiscLocalLowerLayer
starPPPStatDiscAddFlowFail
starPPPStatDiscMaxRetriesLCP
starPPPStatDiscMaxRetriesIPCP
starPPPStatDiscMaxSetupTimer
<table>
<thead>
<tr>
<th>Object ID</th>
<th>Description</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>starPPPStatVpnID</td>
<td>The internal identification of the PPP VPN (context).</td>
<td>Gauge32</td>
</tr>
<tr>
<td>starPPPStatSvcID</td>
<td>The service identification is made up from first 8 chars of context name and first 8 chars of service name separated by (:).</td>
<td>StarShortID</td>
</tr>
</tbody>
</table>
Access
not-accessible

Object
starPPPStatVpnName

Object ID
enterprise.8164.1.21.1.1.3

Description
The name of the PPP VPN (context).

Syntax
DisplayString

Access
Read-only

Object
starPPPStatServName

Object ID
enterprise.8164.1.21.1.1.4

Description
The name of the PPP service.

Syntax
DisplayString

Access
Read-only

Object
starPPPStatInit

Object ID
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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**
enterprise.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**
enterprise.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**
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
trace.8164.1.21.1.1.1.20

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

Syntax
Counter32

Access
Read-only

Object
starPPPStatRenegPdsn

Object ID
trace.8164.1.21.1.1.1.21

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

Syntax
Counter32

Access
Read-only

Object
starPPPStatRenegMobil

Object ID
trace.8164.1.21.1.1.1.22

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

Syntax
Counter32
<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.1.21.1.1.23</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The number of PPP sessions which had an IP address mismatch during re-negotiation.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Counter32</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.1.21.1.1.24</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The number of PPP sessions which failed renegotiation for reasons other than IP address mismatch.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Counter32</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.1.21.1.1.25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The number of PPP CHAP authentication attempts for the associated VPN service.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Counter32</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.1.21.1.1.26</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The number of PPP sessions which had an IP address mismatch during re-negotiation.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Counter32</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.1.21.1.1.27</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The number of PPP sessions which failed renegotiation for reasons other than IP address mismatch.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Counter32</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.1.21.1.1.28</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The number of PPP CHAP authentication attempts for the associated VPN service.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Counter32</td>
</tr>
</tbody>
</table>
Object ID
enterprise.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
enterprise.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
enterprise.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
enterprise.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  
enterprise.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  
enterprise.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  
enterprise.8164.1.21.1.1.32

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

Object ID
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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.
Starent Chassis Objects

Syntax
Counter32

Access
Read-only

Object
starPPPStatDiscRpRemote

Object ID
enterprise.8164.1.21.1.40

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
enterprise.8164.1.21.1.41

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
enterprise.8164.1.21.1.42

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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
starPPPStatLcpFailUnknown

Object ID
enterprise.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**
enterprise.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**
enterprise.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**
enterprise.8164.1.21.1.1.52

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

**Syntax**
Counter32
Starent Chassis Objects

MIB Textual Conventions

Access
Read-only

Object
starPPPStatAuthSuccess

Object ID
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.8164.1.21.1.1.59

Description
The number of aborted PPP CHAP authentications for the associated VPN service.
<table>
<thead>
<tr>
<th>Object</th>
<th>Description</th>
<th>Syntax</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>starPPPStatPapAuthAbort</td>
<td>The number of aborted PPP PAP authentications for the associated VPN service.</td>
<td>Counter32</td>
<td>Read-only</td>
</tr>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.21.1.1.60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>starPPPStatMSChapAuthAbort</td>
<td>The number of aborted PPP MSCHAP authentications for the associated VPN service.</td>
<td>Counter32</td>
<td>Read-only</td>
</tr>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.21.1.1.61</td>
<td></td>
<td></td>
</tr>
<tr>
<td>starPPPStatSessSkipAuth</td>
<td>The number of PPP sessions that skipped authentications for the associated VPN service.</td>
<td>Counter32</td>
<td>Read-only</td>
</tr>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.21.1.1.62</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Object  
starPPPStatNegComp

Object ID
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
### starPPPStatDiscInvalidDestVpn

**Object ID**
enterprise.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

### starPPPStatDiscOptNegFailLCP

**Object ID**
enterprise.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

### starPPPStatDiscOptNegFailIPCP

**Object ID**
enterprise.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

### starPPPStatDiscNoRemoteIpAddr

**Object ID**
enterprise.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
Object ID
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
cstarPPPStatLCPEchoTotalReq

Object ID
enterprise.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
cstarPPPStatLCPEchoReqResent

Object ID
enterprise.8164.1.21.1.1.79

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

Object ID
enterprise.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
enterprise.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
enterprise.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
enterprise.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**  
enterprise.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**  
enterprise.8164.1.21.1.1.85

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

**Syntax**  
Counter32

**Access**  
Read-only

**enterprise.8164.1.starentMIPHA(22)**

**Object**  
starMIPHASStatTable

**Object ID**  
enterprise.8164.1.22.1

**Description**  
A table containing MIP home agent statistics.
Syntax
Sequence of starMIPHAStatEntry

Access
not-accessible

Object
starMIPHAStatEntry

Object ID
enterprise.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
starMIPHAExpire
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

enterprise.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

enterprise.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
enterprise.8164.1.22.1.1.3

Description
The name of the VPN (context).

Syntax
DisplayString

Access
Read-only

Object
starMIPHASstatServName

Object ID
enterprise.8164.1.22.1.1.4

Description
The Mobile IP home agent service name.

Syntax
DisplayString

Access
Read-only

Object
starMIPHASstatDisconnects

Object ID
enterprise.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
starMIPhasStatExpiry

Object ID
enterprise.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
starMIPhasStatDereg

Object ID
enterprise.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
starMIPhasStatAdminDrop

Object ID
enterprise.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.
Object
starMIPHAStatRegRecvTotal

Object ID
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
starMIPHASatRegDeniedTotal

Object ID
enterprise.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
starMIPHASatRegDeniedInitial

Object ID
enterprise.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
starMIPHASatRegDeniedRenew
Object ID
   enterprise.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
   enterprise.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
       starMIPHASStatRegReplyTotal

Object ID
   enterprise.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
       starMIPHASStatRegReplyAcceptReg

Object ID
   enterprise.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
starMIPHASStatRegReplyAcceptDereg

Object ID
enterprise.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
starMIPHASStatRegReplyDenied

Object ID
enterprise.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
starMIPHASStatRegReplyBadReq

Object ID
enterprise.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
starMIPHASStatRegReplyMismatchID

Object ID
enterprise.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
starMIPHASStatRegReplyAdminProhib

Object ID
enterprise.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
starMIPHASStatRegReplyUnspecErr

Object ID
enterprise.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.
Access
Read-only

Object
starMIPHASStatRegReplyNoResource

Object ID
enterprise.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
starMIPHASStatRegReplyMnAuthFail

Object ID
enterprise.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
starMIPHASStatRegReplyFAAuthFail

Object ID
enterprise.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

starMIPHASStatRegReplySimulBind

Object ID

enterprise.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

starMIPHASStatRegReplyUnknownHA

Object ID

enterprise.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

starMIPHASStatRegReplyRevTunUnavail

Object ID

enterprise.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

starMIPHASStatRegReplyRevTunMand
Object ID
enterprise.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
enterprise.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
enterprise.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
enterprise.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
starMIPHASStatRegAcceptHO

Object ID
enterprise.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
starMIPHASStatRegDeniedHO

Object ID
enterprise.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
starMIPHASStatRegDiscardTotal

Object ID
enterprise.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

enterprise.8164.1.starentMIPFA(23)

Object
starMIPFAStatTable

Object ID
enterprise.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
enterprise.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
starMIPFADiscExpire
starMIPFADiscDereg
<table>
<thead>
<tr>
<th>starMIPFADiscAdmin</th>
<th>starMIPFAuthAttempt</th>
<th>starMIPFAuthSuccess</th>
<th>starMIPFAuthFailure</th>
</tr>
</thead>
<tbody>
<tr>
<td>starMIPFARegRecvTotal</td>
<td>starMIPFARegRecvInitial</td>
<td>starMIPFARegRecvRenewal</td>
<td>starMIPFARegRecvDereg</td>
</tr>
<tr>
<td>starMIPFARegAcceptTotal</td>
<td>starMIPFARegAcceptInitial</td>
<td>starMIPFARegAcceptRenewal</td>
<td>starMIPFARegAcceptDereg</td>
</tr>
<tr>
<td>starMIPFARegDenTotal</td>
<td>starMIPFARegDenInitial</td>
<td>starMIPFARegDenRenewal</td>
<td>starMIPFARegDenDereg</td>
</tr>
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<td>starMIPFARegDiscardInitial</td>
<td>starMIPFARegDiscardRenewal</td>
<td>starMIPFARegDiscardDereg</td>
</tr>
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<td>starMIPFARegRelayedInitial</td>
<td>starMIPFARegRelayedRenewal</td>
<td>starMIPFARegRelayedDereg</td>
</tr>
<tr>
<td>starMIPFARegAuthFailTotal</td>
<td>starMIPFARegAuthFailInitial</td>
<td>starMIPFARegAuthFailRenewal</td>
<td>starMIPFARegAuthFailDereg</td>
</tr>
<tr>
<td>starMIPFARegDenPDSNTotal</td>
<td>starMIPFARegDenPDSNInitial</td>
<td>starMIPFARegDenPDSNRenewal</td>
<td>starMIPFARegDenPDSNDereg</td>
</tr>
<tr>
<td>starMIPFARegDenHATotal</td>
<td>starMIPFARegDenHAInitial</td>
<td>starMIPFARegDenHARenewal</td>
<td>starMIPFARegDenHADereg</td>
</tr>
<tr>
<td>starMIPFARegDenPDSNUnspec</td>
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</tr>
</tbody>
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starMIPFARegDenPDSNTimeout
starMIPFARegDenPDSNAdmin
starMIPFARegDenPDSNResources
starMIPFARegDenPDSNMnAuth
starMIPFARegDenPDSNHAAuth
starMIPFARegDenPDSNTooLong
starMIPFARegDenPDSNBadReq
starMIPFARegDenPDSNEncapUnav
starMIPFARegDenPDSNRevTunUnav
starMIPFARegDenPDSNRevTunMand
starMIPFARegDenHAFAAuth
starMIPFARegDenHABadReq
starMIPFARegDenHAMismatchID
starMIPFARegDenHASimulBind
starMIPFARegDenHAUnknownHA
starMIPFARegDenHARevRunUnav
starMIPFARegRplRcvTotal
starMIPFARegRplRcvTotalRly
starMIPFARegRplRcvErrors
starMIPFARegRplRcvInitial
starMIPFARegRplRcvInitialRly
starMIPFARegRplRcvRenewal
starMIPFARegRplRcvRenewalRly
starMIPFARegRplRcvDereg
starMIPFARegRplRcvDeregRly
starMIPFARegRplSentTotal
starMIPFARegRplSentAcceptReg
starMIPFARegRplSentAcceptDereg
starMIPFARegRplSentBadReq
starMIPFARegRplSentTooLong
starMIPFARegRplSentMnAuthFail
starMIPFARegRplSentHAAuthFail
starMIPFARegRplSentAdminProhib
starMIPFARegRplSentNoResources
starMIPFARegRplSentRevTunUnav
starMIPFARegRplSentRevTunMand
starMIPFARegRplSentSendErrors
starMIPFAStatRegDenPDSNBadReply
starMIPFAStatRegDenPDSNMissNAI
starMIPFAStatRegDenPDSNMissHomeAgent
starMIPFAStatRegDenPDSNMissHomeAddr
starMIPFAStatRegDenPDSNUknChallenge
starMIPFAStatRegDenPDSNMissChallenge
starMIPFAStatRegDenPDSNStaleChallenge
starMIPFAStatRegDenPDSNMNTooDistant
starMIPFAStatRegDenPDSNStyleUnavail
starMIPFAStatRegDenPDSNHANetUnreach
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
Starent Chassis Objects

MIB Textual Conventions

Object ID
enterprise.8164.1.23.1.1.1

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

Syntax
Gauge32

Access
Read-only

Object
starMIPFASvcID

Object ID
enterprise.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
tarMIPFASvnlName

Object ID
enterprise.8164.1.23.1.1.3

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

Syntax
DisplayString

Access
Read-only

Object
tarMIPFASvnlName

Object ID
enterprise.8164.1.23.1.1.4
Description
The Mobile IP foreign agent service name.

Syntax
DisplayString

Access
Read-only

Object
starMIPFAStatAdvertSend

Object ID
enterprise.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
enterprise.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
enterprise.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
textual.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
textual.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
textual.8164.1.23.1.1.10

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

Object ID
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
## Starent Chassis Objects

### MIB Textual Conventions

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#### Object ID
- **starMIPFAStatRegAcceptRenewal**
  - **Object ID**: enterprise.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

#### Object ID
- **starMIPFAStatRegAcceptDereg**
  - **Object ID**: enterprise.8164.1.23.1.1.19
  - **Description**: The number of session deregistrations accepted for the associated Mobile IP foreign agent VPN service.
  - **Syntax**: Counter32

#### Object ID
- **starMIPFAStatRegDenTotal**
  - **Object ID**: enterprise.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

#### Object ID
- **starMIPFAStatRegDenInitial**
  - **Object ID**: enterprise.8164.1.23.1.1.21
  - **Description**: The initial number of session registrations denied for the associated Mobile IP foreign agent VPN service.
  - **Syntax**: Counter32
Object ID
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
### Starent Chassis Objects

**starMIPFAStatRegRelayedTotal**

**Object ID**
enterprise.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

---

**starMIPFAStatRegRelayedInitial**

**Object ID**
enterprise.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

---

**starMIPFAStatRegRelayedRenewal**

**Object ID**
enterprise.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

---

**starMIPFAStatRegRelayedDereg**

**Object ID**
enterprise.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
enterprise.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
enterprise.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
enterprise.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**
enterprise.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**
enterprise.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**
enterprise.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 ID
enterprise.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
enterprise.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
enterprise.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
starMIPFAStatRegDenHAINitital

Object ID
enterprise.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**
enterprise.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**
enterprise.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**
enterprise.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
enterprise.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
enterprise.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
enterprise.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
test.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
test.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
test.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
Counter

Access
Read-only

Object
starMIPFAStatRegDenPDSNBadReq

Object ID
enterprise.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
Counter

Access
Read-only

Object
starMIPFAStatRegDenPDSNEncapUnav

Object ID
enterprise.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
Counter

Access
Read-only

Object
starMIPFAStatRegDeniedPDSNRevTunUnav

Object ID
enterprise.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**
enterprise.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**
enterprise.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**
enterprise.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
starMIPFASStatRegDenHAMismatchID

Object ID
enterprise.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
starMIPFASStatRegDenHASimulBind

Object ID
enterprise.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
starMIPFASStatRegDenHAUnknownHA

Object ID
enterprise.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
time.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
time.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
time.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
   enterprise.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
   enterprise.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
   enterprise.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
enterprise.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
starMIPFASstatRegRplRcvRenewalRly

Object ID
enterprise.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
starMIPFASstatRegRplRcvDereg

Object ID
enterprise.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
starMIPFAStatRegRplRcvDeregRly

Object ID
time.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
time.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
time.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
tnterprise.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
tnterprise.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
tnterprise.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**  
enterprise.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**  
enterprise.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**  
enterprise.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
starMIPFASAstatRegDenPDSNBadReply

Object ID
enterprise.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
starMIPFASAstatRegDenPDSNMissNAI

Object ID
enterprise.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
starMIPFASAstatRegDenPDSNMissHomeAgent

Object ID
enterprise.8164.1.23.1.1.84
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
enterprise.8164.1.23.1.1.85

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
enterprise.8164.1.23.1.1.86

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
enterprise.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
enterprise.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
enterprise.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
enterprise.8164.1.23.1.1.90
Description
The number of session registrations 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
targeted.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
targeted.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
starMIPFAStatRegDenPDSNHPortUnreach

Object ID
targeted.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.8164.1.23.1.1.99

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

starMIPFAStatRegReqSentDeregTotal

Object ID
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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

**enterprise.8164.1.starentRP(24)**

Object
starRPStatTable

Object ID
enterprise.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
enterprise.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
starRPRegUpdHandoff
starRPRegUpdDenyUnspec
starRPRegUpdDenyAdminProhib
starRPRegUpdDenyAuth
starRPRegUpdDenyMismatchID
starRPRegUpdDenyBadRequest

Object

starRPStatVpnID

Object ID
table.8164.1.24.1.1.1

Description
The internal identification of the R-P VPN (context).
Starent Chassis Objects

Syntax
Gauge32

Access
Read-only

Object
starRPStatSvcID

Object ID
enterprise.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
enterprise.8164.1.24.1.1.3

Description
The R-P VPN (context) name.

Syntax
DisplayString

Access
Read-only

Object
starRPStatServName

Object ID
enterprise.8164.1.24.1.1.4

Description
The R-P service name.

Syntax
DisplayString
Access
Read-only

Object
starRPRegRecvTotal

Object ID
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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

Important: Status of this alarm is obsolete.

Object ID
enterprise.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

Object
starRPRegAcceptInterPDSN

Object ID
enterprise.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
enterprise.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
enterprise.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
enterprise.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
text.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
text.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
text.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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  enterprise.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  enterprise.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  enterprise.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.
Object
starRPRegDenyAuth

Object ID
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.8164.1.24.1.1.34

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

Object ID
   enterprise.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
   enterprise.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
   enterprise.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
   enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.8164.1.24.1.1.51

Description
The total number of session security ID violations for the associated R-P VPN service.
<table>
<thead>
<tr>
<th>Object</th>
<th>starRPSecBadSpi</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.24.1.1.52</td>
</tr>
<tr>
<td>Description</td>
<td>The total number of session security SPI violations for the associated R-P VPN service.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Counter32</td>
</tr>
<tr>
<td>Access</td>
<td>Read-only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starRPSecMissingMnHAAuth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.24.1.1.53</td>
</tr>
<tr>
<td>Description</td>
<td>The total number of session security missing mobile number home agent authentication violations for the associated R-P VPN service.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Counter32</td>
</tr>
<tr>
<td>Access</td>
<td>Read-only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starRPSecMissingRegUpdate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.24.1.1.54</td>
</tr>
<tr>
<td>Description</td>
<td>The total number of session missing registration update violations for the associated R-P VPN service.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Counter32</td>
</tr>
<tr>
<td>Access</td>
<td>Read-only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starRPRegRecvInitial</th>
</tr>
</thead>
</table>
Object ID
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
texture.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
texture.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
texture.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
enterprise.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
enterprise.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
starRPDisclInternalBounce

Object ID
enterprise.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
starRPDisclInpuQueueExceeded

Object ID
enterprise.8164.1.24.1.1.68

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

Starent Chassis Objects

MIB Textual Conventions

Syntax
Counter32

Access
Read-only

Object
starRPDiscMismatchedId

Object ID
enterprise.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
enterprise.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
enterprise.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
Object
    starRP1xTxBytes

Object ID
    enterprise.8164.1.24.1.1.72

Description
    The number of 1x bytes transmitted, in megabytes.

Syntax
    Counter32

Access
    Read-only

Object
    starRPDiscMisc

Object ID
    enterprise.8164.1.24.1.1.73

Description
    The number of 1x bytes received, in megabytes.

Syntax
    Counter32

Access
    Read-only

Object
    starRP1xTxPackets

Object ID
    enterprise.8164.1.24.1.1.74

Description
    The number of 1x packets transmitted, in thousands.

Syntax
    Counter32

Access
    Read-only

Object
    starRP1xRxPackets

Object ID
    enterprise.8164.1.24.1.1.75
**Description**
The number of 1x packets received, in thousands.

**Syntax**
Counter32

**Access**
Read-only

**Object**
starRPDoTxBytes

**Object ID**
enterprise.8164.1.24.1.1.76

**Description**
The number of Do bytes transmitted, in megabytes.

**Syntax**
Counter32

**Access**
Read-only

**Object**
starRPDoRxBytes

**Object ID**
enterprise.8164.1.24.1.1.77

**Description**
The number of Do bytes received, in megabytes.

**Syntax**
Counter32

**Access**
Read-only

**Object**
starRPDoTxPackets

**Object ID**
enterprise.8164.1.24.1.1.78

**Description**
The number of Do packets transmitted, in thousands.

**Syntax**
Counter32
Access
Read-only

Object
starRPDoRxPackets

Object ID
enterprise.8164.1.24.1.1.79

Description
The number of Do packets received, in thousands.

Syntax
Counter32

Access
Read-only

enterprise.8164.1.starentSubscriber(26)
The objects in this table are not accessible via SNMP. They are intended for use within traps.

Object
starSubTable

Object ID
enterprise.8164.1.26.1

Description
A table containing subscriber information.

Syntax
SEQUENCE OF starSubEntry

Access
not-accessible

Object
starSubEntry

Object ID
enterprise.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
t[464]enterprise.8164.1.26.1.1.1

Description
The context the subscriber is in.

Syntax
DisplayString

Access
-notify

Object
starSubMSID

Object ID
t[464]enterprise.8164.1.26.1.1.2

Description
The MSID of the subscriber.

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

Access
accessible-for-notify

Object
starSubName

Object ID
t[464]enterprise.8164.1.26.1.1.3
Description
The name of the subscriber.

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

Access
accessible-for-notify

Object
starSubTimerDuration

Object ID
enterprise.8164.1.26.1.1.4

Description
The length of the long-duration timer in seconds

Syntax
Unsigned32

Access
accessible-for-notify

Object
starSubLongDurTimeoutAction

Object ID
enterprise.8164.1.26.1.1.5

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

Syntax
StarLongDurTimeoutAction

Access
accessible-for-notify

Object
starSubSetupTime

Object ID
enterprise.8164.1.26.1.1.6

Description
The time when the call was setup.

Syntax
DateAndTime
Access accessible-for-notify

**Object**

starSubHomeAddr

**Object ID**

enterprise.8164.1.26.1.1.7

**Description**

The IPv4 home address.

**Syntax**

IPv4Address

Access accessible-for-notify

**Object**

starSubHomeAddrv6

**Object ID**

enterprise.8164.1.26.1.1.8

**Description**

The IPv6 home address.

**Syntax**

IPv6Address

Access accessible-for-notify

**enterprise.8164.1.starentEISServer(27)**

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

**Object**

starEISServerTable

**Object ID**

enterprise.8164.1.27.1

**Description**

A table containing EIS Server information.

**Syntax**

SEQUENCE OF StarEISServerEntry
Access
not-accessible

Object
starEISServerEntry

Object ID
enterprise.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
enterprise.8164.1.27.1.1.1

Description
The VPN ID for the EIS Server.

Syntax
Gauge32

Access
not-accessible

Object
starEISServerAddr

Object ID
enterprise.8164.1.27.1.1.2

Description
The IP Address for the EIS Server.

Syntax
IpAddress
Access

accessable-for-notify

<table>
<thead>
<tr>
<th>Object</th>
<th>starEISServerVPNName</th>
</tr>
</thead>
</table>

Object ID

enterprise.8164.1.27.1.1.3

Description

The VPN Name for this EIS Server.

Syntax

DisplayString

Access

accessable-for-notify

**enterprise.8164.1.starentThresholds(28)**

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

<table>
<thead>
<tr>
<th>Object</th>
<th>starThreshMeasuredPct</th>
</tr>
</thead>
</table>

Object ID

enterprise.8164.1.28.1

Description

The measured value of a thresholded parameter.

Syntax

Gauge32(0..100)

Access

accessable-for-notify

<table>
<thead>
<tr>
<th>Object</th>
<th>starThreshPct</th>
</tr>
</thead>
</table>

Object ID

enterprise.8164.1.28.2

Description

The configured value of a thresholded parameter.

Syntax

INTEGER32(0..100)
Access
accessible-for-notify

Object
starThreshMeasuredInt

Object ID
enterprise.8164.1.28.3

Description
The measured value of a thresholded parameter.

Syntax
Gauge32

Access
accessible-for-notify

Object
starThreshInt

Object ID
enterprise.8164.1.28.4

Description
The configured value of a thresholded parameter.

Syntax
Unsigned32

Access
accessible-for-notify

Object
starThreshMeasuredMB

Object ID
enterprise.8164.1.28.5

Description
The measured value of a thresholded parameter.

Syntax
Guard32

Units
Megabytes

Access
accessible-for-notify
Object

starThreshMB

Object ID
enterprise.8164.1.28.6

Description
The configured value of a thresholded parameter

Syntax
Unsigned32

Units
Megabytes

Access
accessible-for-notify

Object

starThreshMeasuredGB

Object ID
enterprise.8164.1.28.7

Description
The configured value of a thresholded parameter.

Syntax
Gauge32

Units
Gigabytes

Access
accessible-for-notify

Object

starThreshGB

Object ID
enterprise.8164.1.28.8

Description
The configured value of a thresholded parameter.

Syntax
Unsigned32

Units
Gigabytes
**Access**

accessible-for-notify

**enterprise.8164.1.starentPort(29)**

**Object**

starPortTable

**Object ID**

enterprise.8164.1.29.1

**Description**

A table containing Port information.

**Syntax**

SEQUENCE OF starPortEntry

**Access**

not-accessible

**Object**

starPortEntry

**Object ID**

enterprise.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
  enterprise.8164.1.29.1.1.1

Description
  The Slot number for this port.

Syntax
  Integer32(1..48)

Access
  accessible-for-notify

Object
  starPortNum

Object ID
  enterprise.8164.1.29.1.1.2

Description
  The Port number within this slot.

Syntax
  Integer32(1..8)

**Important:**  Integer32(1..29) for 14.1 release.

Access
  accessible-for-notify

Object
  starPortType
Object ID
enterprise.8164.1.29.1.1.3

Description
The port type.

Syntax
INTEGER {
  none(0)
  ethernet10100(1)
  ethernet1000dualmedia(2)
  ethernet1000(3)
  ds3(4)
  oc3(5)
  oc3atm(6)
  ds3e(7)
  rs232(8)
  bits1e1(9)
  virtualEthernet(10)
  ether10g(11)
}

Access
Read-only

Object
starPortTypeDescr

Object ID
enterprise.8164.1.29.1.1.4

Description
A textual representation of the starPortType attribute

Syntax
DisplayString

Access
Read-only

Object
starPortAdminState

Object ID
enterprise.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
   enterprise.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
   enterprise.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
enterprise.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
enterprise.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
enterprise.8164.1.29.1.1.10
Description
The port number of the redundant port for the current port

Syntax
Integer32(0..29)

Important: Integer32(0..29) for 14.1 release.

Access
Read-only

Object
starPortRXBytes

Object ID
enterprise.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
enterprise.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
enterprise.8164.1.29.1.1.13
### starPortTXFrames

**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 ID**

enterprise.8164.1.29.1.1.14

### starPortRxDiscards

**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 ID**

enterprise.8164.1.29.1.1.15

### starPortTxDiscards

**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 ID**

enterprise.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
enterprise.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
enterprise.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

Object
starIfIndex

Object ID
enterprise.8164.1.29.1.1.19
Description
Lport interface index number.

Important: This object has been deprecated.

Syntax
Counter32

Access
read-only

Object
starApsOperation

Object ID
tenterprise.8164.1.29.1.1.20

Description
APS operation performed during APS activity.

Important: This object has been deprecated.

Syntax
DisplayString

Access
read-only

enterprise.8164.1.starentlPPool(30)

Object
starlPPoolTable

Object ID
tenterprise.8164.1.30.1

Description
A table containing IP Pool information.

Syntax
SEQUENCE OF StarlPPoolEntry

Access
not-accessible

Object
starlPPoolEntry
Object ID
enterprise.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
enterprise.8164.1.30.1.1.1

Description
The context ID for this pool.

Syntax
Gauge32

Access
Read-only
Object ID
enterprise.8164.1.30.1.1.2

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

Syntax
StarMediumID

Access
not-accessible

Object
starIPPoolContext

Object ID
enterprise.8164.1.30.1.1.3

Description
The context for this pool.

Syntax
DisplayString

Access
not-accessible

Object
starIPPoolGroup

Object ID
enterprise.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
enterprise.8164.1.30.1.1.5

Description
The name of the IP pool.
Object
starIPPType

Object ID
enterprise.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
starIPPState

Object ID
enterprise.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
enterprise.8164.1.30.1.1.8

Description
The start IP address of the pool.

Syntax
IpAddress

Access
Read-only

Object

starIPPoolMaskorEndAddr

Object ID
enterprise.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
enterprise.8164.1.30.1.1.10

Description
The priority of the pool.

Syntax
Integer32

Access
Read-only
**starIPPoolUsed**

**Object ID**
enterprise.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

**starIPPoolHold**

**Object ID**
enterprise.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

**starIPPoolRelease**

**Object ID**
enterprise.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

**starIPPoolFree**

**Object ID**
enterprise.8164.1.30.1.1.14
Description
The number of IP addresses in FREE state in the pool.

Syntax
Gauge32

Access
Read-only

enterprise.8164.1.starentTrapData(31)

Object
starCongestionPolicy

Object ID
enterprise.8164.1.31.1

Description
The policy invoked for congestion events.

Syntax
INTEGER

Access
accessible-for-notify

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

Object
starCongestionResourceType

Object ID
enterprise.8164.1.31.2

Description
The resource type for a congestion event.

Syntax
INTEGER

Access
accessible-for-notify

Objects
systemcpu(1)
servicecpu(2)
averagememory(3)
queue(4)
quededelay(5)
license(6)
portutil(7)
rxportutil(8)
txportutil(9)
rxportutil(10)
txportutil(11)
servicecapacity(12)

Object
starPTACConfig

Object ID
enterprise.8164.1.31.3

Description
The number of packet processing cards configured in the system.

Syntax
Integer32(0..14)

Access
accessible-for-notify

Object
starPTACActive

Object ID
enterprise.8164.1.31.4

Description
The number of packet processing cards active in the system.

Syntax
Integer32(0..14)

Access
accessible-for-notify

Object
starContextName

Object ID
enterprise.8164.1.31.5
Description
The name of a context configured on the system.

Syntax
DisplayString

Access
accessible-for-notify

Object
starInterfaceName

Object ID
terprise.8164.1.31.6

Description
The name of an interface.

Syntax
DisplayString

Access
accessible-for-notify

Object
starPCFAddress

Object ID
enterprise.8164.1.31.7

Description
The IP address of a PCF.

Syntax
IpAddress

Access
accessible-for-notify

Object
starPeerAddress

Object ID
enterprise.8164.1.31.8

Description
Peer Address

Syntax
IpAddress
## Starent Chassis Objects

### MIB Textual Conventions

Access accessible-for-notify

<table>
<thead>
<tr>
<th>Object</th>
<th>starLicensedSessions</th>
</tr>
</thead>
</table>

**Object ID**

enterprise.8164.1.31.9

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

**Syntax**
Unsigned32

Access accessible-for-notify

<table>
<thead>
<tr>
<th>Object</th>
<th>starCurrentSessions</th>
</tr>
</thead>
</table>

**Object ID**

enterprise.8164.1.31.10

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

**Syntax**
Gauge32

Access accessible-for-notify

<table>
<thead>
<tr>
<th>Object</th>
<th>starL3Address</th>
</tr>
</thead>
</table>

**Object ID**

enterprise.8164.1.31.11

**Description**
L3 Address

**Syntax**
IpAddress

Access accessible-for-notify

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<thead>
<tr>
<th>Object</th>
<th>starUDPPortNum</th>
</tr>
</thead>
</table>

**Object ID**

enterprise.8164.1.31.12

**Description**
UDP Port Number
<table>
<thead>
<tr>
<th>Object ID</th>
<th>Description</th>
<th>Syntax</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>enterprise.8164.1.31.12</td>
<td>UDP Port Number</td>
<td>Integer32(1..65535)</td>
<td>accessible-for-notify</td>
</tr>
</tbody>
</table>

**Object**

starSRPIPAddress

<table>
<thead>
<tr>
<th>Object ID</th>
<th>Description</th>
<th>Syntax</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>enterprise.8164.1.31.13</td>
<td>SRP IP Address</td>
<td>IpAddress</td>
<td>accessible-for-notify</td>
</tr>
</tbody>
</table>

**Object**

starBGPPeerIPAddress

<table>
<thead>
<tr>
<th>Object ID</th>
<th>Description</th>
<th>Syntax</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>enterprise.8164.1.31.14</td>
<td>BGP Peer IP Address</td>
<td>IpAddress</td>
<td>accessible-for-notify</td>
</tr>
</tbody>
</table>

**Object**

starContFiltCFFilename

<table>
<thead>
<tr>
<th>Object ID</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>enterprise.8164.1.31.15</td>
<td>File name for the Optimized Content Rating Database (OPTCMDB)</td>
</tr>
</tbody>
</table>
Syntax
DisplayString

Access
accessible-for-notify

Object
starContFiltCFErrorCode

Object ID
enterprise.8164.1.31.16

Description
Error code.

Syntax
Integer32

Access
accessible-for-notify

Object
starFetchedFromAAAMgr

Object ID
enterprise.8164.1.31.17

Description
The total number of calls fetched from AAA Manager

Syntax
Integer32

Access
accessible-for-notify

Object
starPriorToAudit

Object ID
enterprise.8164.1.31.18

Description
The number calls prior to audit

Syntax
Integer32

Access
accessible-for-notify
Object
starPassedAudits

Object ID
text.8164.1.31.19

Description
The number calls passed audit

Syntax
Integer32

Access
accessible-for-notify

Object
starCallsRecovered

Object ID
text.8164.1.31.20

Description
The number of calls recovered

Syntax
Integer32

Access
accessible-for-notify

Object
starA11CallLines

Object ID
text.8164.1.31.21

Description
The number of A11 call lines

Syntax
Integer32

Access
accessible-for-notify

Object
starElapsedMs

Object ID
text.8164.1.31.22
Description
The audit time elapsed in milli-seconds

Syntax
Integer32

Access
accessible-for-notify

Object
starCDRFilename

Object ID
enterprise.8164.1.31.23

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

Syntax
DisplayString

Access
accessible-for-notify

Object
starDiameterVpnName

Object ID
enterprise.8164.1.31.24

Description
Diameter VPN (Context) Name

Syntax
DisplayString

Access
accessible-for-notify

Object
starDiameterPeerAddr

Object ID
enterprise.8164.1.31.25

Description
Diameter Peer Address

Syntax
IpAddress
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<th>Object ID</th>
<th>Description</th>
<th>Syntax</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>enterprise.8164.1.31.26</td>
<td>Diameter Endpoint Name</td>
<td>DisplayString</td>
<td>accessible-for-notify</td>
</tr>
<tr>
<td>enterprise.8164.1.31.27</td>
<td>Interface IP Address</td>
<td>IpAddress</td>
<td>accessible-for-notify</td>
</tr>
<tr>
<td>enterprise.8164.1.31.28</td>
<td>Interface IP Address</td>
<td>IpAddress</td>
<td>accessible-for-notify</td>
</tr>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.31.29</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------</td>
<td>-------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>FROM state for OSPF Neighbor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Syntax</td>
<td>StarOSPFNeighborState</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Access</td>
<td>accessible-for-notify</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Object</td>
<td>starOSPFToState</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.1.31.30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>TO state for OSPF Neighbor</td>
</tr>
<tr>
<td>Syntax</td>
<td>StarOSPFNeighborState</td>
</tr>
<tr>
<td>Access</td>
<td>accessible-for-notify</td>
</tr>
<tr>
<td>Object</td>
<td>starBLFilename</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.1.31.31</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>File name for the OPTBLDB</td>
</tr>
<tr>
<td>Syntax</td>
<td>Display STRING</td>
</tr>
<tr>
<td>Access</td>
<td>accessible-for-notify</td>
</tr>
<tr>
<td>Object</td>
<td>starBLErrorCode</td>
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</table>

<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.1.31.31</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Error code</td>
</tr>
</tbody>
</table>
Syntax
Current

Access
accessible-for-notify

Object
  starDiameterEncoderString

Object ID
enterprise.8164.1.31.31

Description
Diameter Cause Code String

Syntax
DisplayString

Access
accessible-for-notify

Object
  starDiameterECode

Object ID
enterprise.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
enterprise.8164.1.31.34

Description
Diameter Peer Address

Syntax
Ipv6Address

Access
accessible-for-notify

Object
starContFiltCFUpgradeFilename

Object ID
enterprise.8164.1.31.35

Description
File name for the Full or Incremental OPTCMDB

Syntax
DisplayString

Access
accessible-for-notify

Object
starContFiltCFUpgradeErrorCode

Object ID
enterprise.8164.1.31.36

Description
Error code

Syntax
unknownerror(1)
upgradefullfailure(2)
upgradecrfailure(3)

Access
accessible-for-notify

Object
starBLUpgradeFilename

Object ID
enterprise.8164.1.31.37
### starBLUpgradeErrorCode

**Description**
File name for the Full OPTBLDB

**Syntax**
DisplayString

**Access**
accessible-for-notify

**Object**
starBLUpgradeErrorCode

---

### starDynPkgFilename

**Description**
File name for the DynPkg

**Syntax**
DisplayString

**Access**
accessible-for-notify

**Object**
starDynPkgFilename

---

### starDynCFErrorCode

**Description**
Error code

**Object**
starDynCFErrorCode

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

Access
accessible-for-notify

Object
cstarDynPkgUpgradeFilename

Object ID
enterprise.8164.1.31.41

Description
File name for the Full DynPkg

Syntax
DisplayString

Access
accessible-for-notify

Object
cstarDynCFUpgradeErrorCode

Object ID
enterprise.8164.1.31.42

Description
Error code

Syntax
unknownerror(1)
upgradefullfailure(2)

Access
accessible-for-notify

Object
cstarCscfSessCongestionResourceType

Object ID
enterprise.8164.1.31.43

Description
Cscf Session resource type for a congestion event
Syntax
cpu(1)
memory(2)

Access
accessible-for-notify

Object
starSmgrId

Object ID
enterprise.8164.1.31.44

Description
Session Manager Instance ID

Syntax
Integer32

Access
accessible-for-notify

Object
starEGTPVpnName

Object ID
enterprise.8164.1.31.45

Description
The name of this VPN (context)

Syntax
DisplayString

Access
accessible-for-notify

Object
starEGTPServName

Object ID
enterprise.8164.1.31.46

Description
The name of this service

Syntax
DisplayString
Starent Chassis Objects

MIB Textual Conventions

Access accessible-for-notify

Object starEGTPInterfaceType

Object ID enterprise.8164.1.31.47

Description Egtp interface type

Syntax INTEGER

Access accessible-for-notify

Object starEGTPSelfPort

Object ID enterprise.8164.1.31.48

Description The Port number of the EGTP

Syntax Gauge32

Access accessible-for-notify

Object starEGTPSelfAddr

Object ID enterprise.8164.1.31.49

Description The IP Address of the EGTP

Syntax IpAddress

Access accessible-for-notify

Object starEGTPPeerPort
**Object ID**
enterprise.8164.1.31.50

**Description**
The Port number of the PeerNode

**Syntax**
Gauge32

**Access**
accessible-for-notify

**Object**
starEGTPPeerAddr

**Object ID**
enterprise.8164.1.31.51

**Description**
The IP Address of the PeerNode

**Syntax**
IpAddress

**Access**
accessible-for-notify

**Object**
starEGTPPeerOldRstCnt

**Object ID**
enterprise.8164.1.31.52

**Description**
EGTP peer old restart counter

**Syntax**
Gauge32

**Access**
accessible-for-notify

**Object**
starEGTPPeerNewRstCnt

**Object ID**
enterprise.8164.1.31.53

**Description**
EGTP peer new restart counter
Syntax
Gauge32

Access
accessible-for-notify

Object
starEGTPPeerSessCnt

Object ID
enterprise.8164.1.31.54

Description
EGTP peer session count

Syntax
Gauge32

Access
accessible-for-notify

Object
starEGTPFailureReason

Object ID
enterprise.8164.1.31.55

Description
Egtp path failure reason

Syntax
INTEGER

Access
accessible-for-notify

Object
starGSSCDRLossConfigured

Object ID
enterprise.8164.1.31.56

Description
The configured value of threshold CDR Loss at GSS

Syntax
Unsigned32

Access
accessible-for-notify
**Object**

starGSSCDRLogLossMeasure

**Object ID**

enterprise.8164.1.31.57

**Description**

The Measured value of CDR Loss at GSS

**Syntax**

Unsigned32

**Access**

accessible-for-notify

---

**Object**

starLicenseKey

**Object ID**

enterprise.8164.1.31.58

**Description**

The license key

**Syntax**

Unsigned32

**Access**

accessible-for-notify

---

**Object**

starLicenseExpiryDate

**Object ID**

enterprise.8164.1.31.59

**Description**

The license expiration date/time

**Syntax**

DateAndTime

**Access**

accessible-for-notify

---

**Object**

starLicenseDaysRemaining

**Object ID**

enterprise.8164.1.31.60
**starLicenseDaysafterExpiry**

**Description**
The number of days remaining before the license expires

**Syntax**
Unsigned32

**Access**
accessible-for-notify

**Object ID**
enterprise.8164.1.31.61

**starNPUSlot**

**Description**
The number of days after the license has expired

**Syntax**
Unsigned32

**Access**
accessible-for-notify

**Object ID**
enterprise.8164.1.31.62

**starSPRServerIpAddr**

**Description**
The NPU slot number

**Syntax**
Integer32

**Access**
accessible-for-notify

**Object ID**
enterprise.8164.1.31.63

**Description**
The IP Address of the SSC Server

**Syntax**
IpAddress
Starent Chassis Objects

MIB Textual Conventions

Access
accessible-for-notify

Object
starMVGEndpointName

Object ID
text.

Description
MVG Endpoint Name.

Syntax
DisplayString

Access
accessible-for-notify

Object
starMVGProtocolType

Object ID
text.

Description
MVG Protocol Types.

Syntax
INTEGER { protocolhttp(1), protocoltcp(2), protocolicmp(3) }

Access
accessible-for-notify

Object
starMVGCauseCode

Object ID
text.

Description
MVG Cause Code.

Syntax
INTEGER {
    servernotreachable(1)
    servicereachable(2)
}
### starPCCNtfyIntfPeerName

**Object ID**
enterprise.8164.1.31.73

**Description**
IPCF Event Notification Interface Peer Name

**Syntax**
DisplayString

**Access**
accessible-for-notify

### starECSTotalDNSLearntIPThresholdInstance

**Object ID**
enterprise.8164.1.31.74

**Description**
ACSMgr Instance Id

**Syntax**
Integer32(1..65535)

**Access**
accessible-for-notify

### starECSTotalDNSLearntIPThresholdconfigured

**Object ID**
enterprise.8164.1.31.75

**Description**
Configured Threshold value in Percentage

**Syntax**
Integer32(1..100)

**Access**
accessible-for-notify

### starECSTotalDNSLearntIPThresholdmeasured

**Object ID**
enterprise.8164.1.31.76
Object ID
enterprise.8164.1.31.76

Description
Measured value in Percentage

Syntax
Integer32 (1..100)

Access
accessible-for-notify

Object
starPeerAddressIpv6

Object ID
enterprise.8164.1.31.77

Description
Peer Ipv6 Address

Syntax
Integer16 (1..100)

Access
accessible-for-notify

Object
starLAGPartner

Object ID
enterprise.8164.1.31.78

Description
The name of this service

Syntax
DisplayString

Access
accessible-for-notify

Object
starSGSServiceVpnName

Object ID
enterprise.8164.1.31.79

Description
SGS service context name
Syntax
   DisplayString

Access
   accessible-for-notify

Object
   starSGSServiceServName

Object ID
   enterprise.8164.1.31.80

Description
   SGS service name

Syntax
   DisplayString

Access
   accessible-for-notify

Object
   starVLRName

Object ID
   enterprise.8164.1.31.81

Description
   VLR name

Syntax
   DisplayString

Access
   accessible-for-notify

Object
   starVLRIpAddr1

Object ID
   enterprise.8164.1.31.82

Description
   VLR IP address1

Syntax
   IpAddress

Access
   accessible-for-notify
Object
starVLRIpAddr2

Object ID
enterprise.8164.1.31.83

Description
VLR IP address2

Syntax
IpAddress

Access
accessible-for-notify

Object
starVLRPortNum

Object ID
enterprise.8164.1.31.84

Description
VLR port number

Syntax
Integer32(1..65535)

Access
accessible-for-notify

Object
starCongestionType

Object ID
enterprise.8164.1.31.85

Description
The type congestion threshold hit.

Syntax
Integer {
critical(1)
major(2)
minor(3)
}

Access
accessible-for-notify
Starent Chassis Objects

MIB Textual Conventions

Object

starCongestionActionProfileName

Object ID
enterprise.8164.1.31.86

Description
The name of a action profile associated with the threshold type.

Syntax
DisplayString

Access
accessible-for-notify

Object

starSessMgrFlowInstId

Object ID
enterprise.8164.1.31.87

Description
Session Manager instance ID

Syntax
Integer32(1..65535)

Access
accessible-for-notify

Object

starSessMgrFlowPDNNo

Object ID
enterprise.8164.1.31.88

Description
Total PDNs Available

Syntax
Integer32(1..65535)

Access
accessible-for-notify

Object

starSessMgrFlowMemUsage

Object ID
enterprise.8164.1.31.89
Description
Total Memory Usage of this instance.

Syntax
Integer32(1..65535)

Access
accessible-for-notify

Object
starSessMgrFlowCounter

Object ID
enterprise.8164.1.31.90

Description
Session Manager Active Flows.

Syntax
Integer32(1..65535)

Access
accessible-for-notify

Object
starSessMgrTotalFlowCount

Object ID
enterprise.8164.1.31.91

Description
Session Manager Active Flows.

Syntax
Integer32(1..65535)

Access
accessible-for-notify

Object
starHENBGWServiceVpnName

Object ID
enterprise.8164.1.31.92

Description
HENBGW Service VPN Name.

Syntax
DisplayString
Access
accessible-for-notify

Object
starHENBGWServiceServName

Object ID
enterprise.8164.1.31.93

Description
HENBGW Service Name.

Syntax
DisplayString

Access
accessible-for-notify

Object
starHENBGWServiceLogicalENBId

Object ID
enterprise.8164.1.31.94

Description
HENBGW Service Logical Enodb ID.

Syntax
DisplayString

Access
accessible-for-notify

Object
starHENBGWServiceMMEServName

Object ID
enterprise.8164.1.31.95

Description
HENBGW Service MME Name.

Syntax
DisplayString

Access
accessible-for-notify

Object
starHENBGWServiceSelfAddr
<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.1.31.96</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>HENBGW Service Self IP Address.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>IpAddress</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>not-accessible</td>
</tr>
<tr>
<td><strong>Object</strong></td>
<td>starHENBGWServicePeerAddr</td>
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<table>
<thead>
<tr>
<th>Object ID</th>
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<tbody>
<tr>
<td><strong>Description</strong></td>
<td>HENBGW Service Peer IP Address.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>IpAddress</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>accessible-for-notify</td>
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<tr>
<td><strong>Object</strong></td>
<td>starHENBGWServiceSelfPort</td>
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<tr>
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<tbody>
<tr>
<td><strong>Description</strong></td>
<td>HENBGW Service Self Port Number.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Integer32(1..65535)</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>not-accessible</td>
</tr>
<tr>
<td><strong>Object</strong></td>
<td>starHENBGWServicePeerPort</td>
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<tr>
<td><strong>Description</strong></td>
<td>HENBGW Service Peer Port Number.</td>
</tr>
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</table>

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**Cisco ASR 5x00 Series SNMP MIB Reference**
Starent Chassis Objects

Syntax
Integer32(1..65535)

Object
starNPUSlotNumber

Object ID
enterprise.8164.1.31.100

Description
NPU Slot Number.

Syntax
Integer32(1..65535)

Access
accessible-for-notify

Object
starNPUCPUNumber

Object ID
enterprise.8164.1.31.101

Description
NPU CPU Number.

Syntax
Integer32(1..65535)

Access
accessible-for-notify

Object
starNPUNPUNumber

Object ID
enterprise.8164.1.31.102

Description
NPU's NPU Number.

Syntax
Integer32(1..65535)

Access
accessible-for-notify
Object
starChassisCrashList

Description
Chassis Crash List Full

Syntax
TruthValue

Access
accessible-for-notify

Object
starLIRcvryErrType

Object ID
enterprise.8164.1.31.104

Description
LI Recovery Error Types

Syntax
INTEGER

Access
accessible-for-notify

Enumeration
syncerror(0)
readerror(1)
writeerror(2)
integrityerror(3)

Object
starLIRcvryErrString

Object ID
enterprise.8164.1.31.105

Description
LI Recovery Error String

Syntax
DisplayString

Access
accessible-for-notify
<table>
<thead>
<tr>
<th>Object</th>
<th>starPMIPvpnName</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.31.105</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The name of this VPN (context)</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>DisplayString</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>accessible-for-notify</td>
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</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starPMIPServName</th>
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</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.31.105</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The name of this service</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>DisplayString</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>accessible-for-notify</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starPMIPSelAddrType</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.31.105</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The IP Address of the PMIP</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>InetAddressType</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>accessible-for-notify</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starPMIPSelAddr</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.31.105</td>
</tr>
</tbody>
</table>
Description
The IP Address of the PMIP

Syntax
InetAddress

Access
accessible-for-notify

Object
starPMIPPeerAddrType

Object ID
enterprise.8164.1.31.105

Description
The IP Address of the PMIP

Syntax
InetAddressType

Access
accessible-for-notify

Object
starPMIPPeerAddr

Object ID
enterprise.8164.1.31.105

Description
The IP Address of the PMIP

Syntax
InetAddress

Access
accessible-for-notify

Object
starPMIPPeerOldRstCnt

Object ID
enterprise.8164.1.31.105

Description
PMIP peer old restart counter

Syntax
Counter32
<table>
<thead>
<tr>
<th>Object ID</th>
<th>Description</th>
<th>Syntax</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>starPMIPPeerNewRstCnt</td>
<td>PMIP peer new restart counter</td>
<td>Counter32</td>
<td>accessible-for-notify</td>
</tr>
<tr>
<td>starPMIPPeerSessCnt</td>
<td>PMIP peer session count</td>
<td>Counter32</td>
<td>accessible-for-notify</td>
</tr>
<tr>
<td>starPMIPFailureReason</td>
<td>PMIP path failure reason</td>
<td>INTEGER</td>
<td>accessible-for-notify</td>
</tr>
</tbody>
</table>

Object ID: enterprise.8164.1.31.105
Object ID
enterprise.8164.1.31.105

Description
MME initial connection disallow reason.

Syntax
DisplayString

Access
accessible-for-notify

**enterprise.8164.1.starentGGSNService(32)**

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

<table>
<thead>
<tr>
<th>Object</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>starGGSNSerTable</td>
<td>A table containing GGSN related information</td>
</tr>
</tbody>
</table>

Object ID
enterprise.8164.1.32.1

Description
A table containing GGSN related information

Syntax
SEQUENCE OF StarGGSNSerEntry

Access
not-accessible

Object
starGGSNSerEntry

Object ID
enterprise.8164.1.32.1.1

Description
The statistics for a specific GGSN service

Syntax
StarGGSNSerEntry

Access
not-accessible

Sequence
starGGSNSerVpnID
starGGSNSerSvcID
<table>
<thead>
<tr>
<th>Object</th>
<th>starSessGGSNVpnName</th>
<th>starSessGGSNServName</th>
<th>starSessGGSNPeerPort</th>
<th>starSessGGSNPeerAddr</th>
<th>starSessGGSNImsi</th>
<th>starSessGGSNSubsName</th>
<th>starSessGGSNAPNName</th>
<th>starSessGTPPGroupName</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.32.1.1.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>The internal identification of the VPN (context)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Syntax</td>
<td>Gauge32</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Access</td>
<td>not-accessible</td>
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</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starSessGGSNSerSvclID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.32.1.1.2</td>
</tr>
<tr>
<td>Description</td>
<td>The internal identification of this service; unique within a specific context</td>
</tr>
<tr>
<td>Syntax</td>
<td>Gauge32</td>
</tr>
<tr>
<td>Access</td>
<td>not-accessible</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starSessGGSNVpnName</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.32.1.1.3</td>
</tr>
<tr>
<td>Description</td>
<td>The name of this VPN (context)</td>
</tr>
</tbody>
</table>
Starent Chassis Objects

MIB Textual Conventions

Syntax
DisplayString

Access
Read-only

Object
starSessGGSNServName

Object ID
enterprise.8164.1.32.1.1.4

Description
The name of this service

Syntax
DisplayString

Access
Read-only

Object
starSessGGSNPeerPort

Object ID
enterprise.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
enterprise.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**

enterprise.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**

enterprise.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**

enterprise.8164.1.32.1.1.9

**Description**

The name of the APN.

**Syntax**

OCTET STRING (SIZE (1..64))

**Access**

accessible-for-notify

---

**Object**

starSessGTPPGroupName

**Object ID**

enterprise.8164.1.32.1.1.10
Description
The name of the GTPP Group.

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

Access
accessible-for-notify

enterprise.8164.1.starentL2TP(33)

Object
starL2TPTable

Object ID
enterprise.8164.1.33.1

Description
A table containing L2TP related information

Syntax
SEQUENCE OF starL2TPEntry

Access
not-accessible

Object
starL2TPEntry

Object ID
enterprise.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**

enterprise.8164.1.33.1.1.1

**Description**

The internal identification of the L2TP local tunnel ID

**Syntax**

Unsigned32

**Access**

accessible-for-notify

**Object**

starL2TPPeerTunnelID

**Object ID**

enterprise.8164.1.33.1.1.2

**Description**

The internal identification of the L2TP peer tunnel ID

**Syntax**

Unsigned32

**Access**

accessible-for-notify

**Object**

starL2TPContextName

**Object ID**

enterprise.8164.1.33.1.1.3

**Description**

The name of the context

**Syntax**

DisplayString

**Access**

accessible-for-notify

**Object**

starL2TPServiceName
Object ID
enterprise.8164.1.33.1.1.4

Description
The name of the service

Syntax
DisplayString

Access
accessible-for-notify

---

Object
starL2TPServiceTypeName

Object ID
enterprise.8164.1.33.1.1.5

Description
The name of the service type

Syntax
DisplayString

Access
accessible-for-notify

---

Object
starL2TPLocalAddress

Object ID
enterprise.8164.1.33.1.1.6

Description
The local address of the service

Syntax
IpAddress

Access
accessible-for-notify

---

Object
starL2TPPeerAddress

Object ID
enterprise.8164.1.33.1.1.7

Description
The peer address of the service
Syntax

IpAddress

Access

accessible-for-notify

**enterprise.8164.1.starSessSub1(34)**

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.

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**

enterprise.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**

enterprise.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
enterprise.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
enterprise.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
enterprise.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 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
enterprise.8164.1.34.6

Description
The service name of the subscriber.

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

Access
Read-only

Object
starSessSub1HAIpAddr

Object ID
enterprise.8164.1.34.7

Description
The HA IP address for FA MIP connections

Syntax
IpAddress

Access
Read-only

Object
starSessSub1PeerIpAddr

Object ID
enterprise.8164.1.34.8

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

<table>
<thead>
<tr>
<th>Session Type</th>
<th>Peer</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDSN</td>
<td>PCF</td>
</tr>
<tr>
<td>GGSN</td>
<td>SGSN</td>
</tr>
<tr>
<td>HA Mobile IP/HA IPSEC</td>
<td>FA</td>
</tr>
<tr>
<td>LAC</td>
<td>LNS</td>
</tr>
<tr>
<td>LNS</td>
<td>LAC</td>
</tr>
</tbody>
</table>

### Syntax

IpAddress

### Access

Read-only

### Object

starSessSub1InPackets

### Object ID

enterprise.8164.1.34.9

### Description

The number of incoming packets for the subscriber

### Syntax

Counter32

### Access

Read-only

### Object

starSessSub1InPacketsDropped

### Object ID

enterprise.8164.1.34.10

### Description

The number of incoming packets dropped for the subscriber

### Syntax

Counter32

### Access

Read-only

### Object

starSessSub1InBytes
Object ID
enterprise.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
enterprise.8164.1.34.12

Description
The number of outgoing packets for the subscriber

Syntax
Counter32

Access
Read-only

Object
starSessSub1OutPacketsDropped

Object ID
enterprise.8164.1.34.13

Description
The number of outgoing packets dropped for the subscriber

Syntax
Counter32

Access
Read-only

Object
starSessSub1OutBytes

Object ID
enterprise.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
enterprise.8164.1.34.15

Description
TBD

Syntax
Gauge32

Units
%

Access
Read-only

Object
starSessSub1State

Object ID
enterprise.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**
enterprise.8164.1.34.17

**Description**
The internal call ID of the subscriber

**Syntax**
Integer32

**Access**
Read-only

**Object**

starSessSub1ConnectTime

**Object ID**
enterprise.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**
enterprise.8164.1.34.19

**Description**
The duration of the call, in seconds

**Syntax**
Counter32

**Units**
Seconds

**Access**
Read-only
starSessSub1TimIdle

Object ID
enterprise.8164.1.34.20

Description
The idle time of the call, in seconds

Syntax
Gauge32

Units
Seconds

Access
Read-only

Object
starSessSub1AccessType

starSessSub1AccessType

Object ID
enterprise.8164.1.34.21

Description
The access type for the subscriber.

Syntax
INTEGER

Access
Read-only

Enumeration
unknown(0)
pdsn_compileip(1)
pdsnCompileip(2)
hamobileip(3)
ggsnpdptypeipv4(4)
ggsnpdptypepepppp(5)
ggsnpdptypeipv6(6)
lnsl2tp(7)
haipsec(8)
ips(9)
pdsnippingipmip(10)
mipproxyfa(11)
imsa(12)
Object

starSessSub1AccessTech

Object ID
enterprise.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
enterprise.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
enterprise.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
enterprise.8164.1.34.25
Description
Carrier ID

Syntax
OCTET STRING (SIZE (0..6))

Access
Read-only

Object
starSessSub1ESN

Object ID
enterprise.8164.1.34.26

Description
Electronic Serial Number

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

Access
Read-only

Object
starSessSub1GMTTimezoneOffset

Object ID
enterprise.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
enterprise.8164.1.34.28

Description
The instance number of the session manager for this subscriber.
Syntax
Unsigned32

Access
Read-only

Object
starSessSub1RemoteIPAddr

Object ID
enterprise.8164.1.34.29

Description
Remote IP Address

Syntax
IpAddress

Access
Read-only

Object
starSessSub1Card

Object ID
enterprise.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
enterprise.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
   enterprise.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
   enterprise.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
   enterprise.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

enterprise.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

enterprise.8164.1.34.36

Syntax

INTEGER

Access

Read-only

Enumeration

unknown(0)

enabled(1)

disabled(2)

Object

starSessSub1IPPoolName

Object ID

enterprise.8164.1.34.37

Syntax

OCTET STRING (SIZE(0..31))

Access

Read-only
<table>
<thead>
<tr>
<th>Object</th>
<th>starSessSub1VLANID</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.34.38</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>0 is returned if this is not applicable</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Unsigned32</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>Read-only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starSessSub1LNSIPAddr</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.34.39</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Only valid if starSessSub1NetworkType is l2tp(3), otherwise 0.0.0.0</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>IpAddress</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>Read-only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starSessSub1ProxyMIP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.34.40</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>INTEGER</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>Read-only</td>
</tr>
<tr>
<td><strong>Enumeration</strong></td>
<td>unknown(0)</td>
</tr>
<tr>
<td></td>
<td>enabled(1)</td>
</tr>
<tr>
<td></td>
<td>disabled(2)</td>
</tr>
</tbody>
</table>

| Object          | starSessSub1GGSNMIP |
Object ID
enterprise.8164.1.34.41

Syntax
INTEGER

Access
Read-only

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

Object
starSessSub1HomeAgentIpAddr

Object ID
enterprise.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 starSessSub1GGSNMMIP 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
enterprise.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 pdsnpsimpleip(1)
- The value of starSessSub1AccessType is ggsnpdctypepseudocommuter(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
tenterprise.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
tenterprise.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
tenterprise.8164.1.34.46
Description
The Source VPN (Context) name.

Syntax
DisplayString

Access
Read-only

Object
starSessSub1DestVPN

Object ID
tnterprise.8164.1.34.47

Description
The Destination VPN (Context) name.

Syntax
DisplayString

Access
Read-only

Object
starSessSub1AAAVPN

Object ID
enterprise.8164.1.34.48

Syntax
DisplayString

Access
Read-only

Object
starSessSub1AAADomain

Object ID
enterprise.8164.1.34.49

Syntax
DisplayString

Access
Read-only

Object
starSessSub1AAASub
Object ID
enterprise.8164.1.34.50

Syntax
Counter32

Access
Read-only

Object
starSessSub1AAAStop

Object ID
enterprise.8164.1.34.51

Syntax
Counter32

Access
Read-only

Object
starSessSub1AAAInterim

Object ID
enterprise.8164.1.34.52

Syntax
Counter32

Access
Read-only

Object
starSessSub1AcctSessionID

Object ID
enterprise.8164.1.34.53

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

Access
Read-only

Object
starSessSub1AAARadiusGroup

Object ID
enterprise.8164.1.34.54
**Syntax**

OCTET STRING (SIZE(0..63))

**Access**

Read-only

**Object**

starSessSub1AAARadiusAuthServerIPAddr

**Object ID**

enterprise.8164.1.34.55

**Syntax**

IpAddress

**Access**

Read-only

**Object**

starSessSub1AAARadiusAcctServerIPAddr

**Object ID**

enterprise.8164.1.34.56

**Syntax**

IpAddress

**Access**

Read-only

**Object**

starSessSub1NASIPAddr

**Object ID**

enterprise.8164.1.34.57

**Syntax**

IpAddress

**Access**

Read-only

**Object**

starSessSub1NexthopIPAddr

**Object ID**

enterprise.8164.1.34.58

**Syntax**

IpAddress
### starSessSub1ActiveInACL

**Object ID:** enterprise.8164.1.34.59  
**Syntax:** OCTET STRING (SIZE(0..79))  
**Access:** Read-only

### starSessSub1ActiveOutACL

**Object ID:** enterprise.8164.1.34.60  
**Syntax:** OCTET STRING (SIZE(0..79))  
**Access:** Read-only

### starSessSub1ECSRulebase

**Object ID:** enterprise.8164.1.34.61  
**Syntax:** OCTET STRING (SIZE(0..63))  
**Access:** Read-only

### starSessSub1InPlcyGrp

**Object ID:** enterprise.8164.1.34.62  
**Syntax:** OCTET STRING (SIZE(0..15))  
**Access:** Read-only
Object

starSessSub1OutPlcyGrp

Object ID
enterprise.8164.1.34.63

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

Access
Read-only

Object

starSessSub1DownTrafPolState

Object ID
enterprise.8164.1.34.64

Syntax
INTEGER

Access
Read-only

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

Object

starSessSub1DownCommDataRate

Object ID
enterprise.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
enterprise.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
enterprise.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
enterprise.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
StarQOSTPAAction

Access
Read-only
Object

starSessSub1DownViolateAction

Object ID
enterprise.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
enterprise.8164.1.34.70

Description
Downlink packets exceeded bandwidth parameters

Syntax
Counter32

Units
packets

Access
Read-only

Object

starSessSub1DownViolate

Object ID
enterprise.8164.1.34.71

Description
Downlink packets violated bandwidth parameters

Syntax
Counter32

Units
packets
Access
Read-only

Object
starSessSub1UpTrafPolState

Object ID
enterprise.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
enterprise.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
enterprise.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)
Starent Chassis Objects

MIB Textual Conventions

### starSessSub1UpBurstSize

**Syntax**
Unsigned32

**Units**
bps

**Access**
Read-only

**Object**
starSessSub1UpBurstSize

**Object ID**
enterprise.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)

### starSessSub1UpExceedAction

**Syntax**
Unsigned32

**Units**
bytes

**Access**
Read-only

**Object**
starSessSub1UpExceedAction

**Object ID**
enterprise.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)

### starSessSub1UpViolateAction

**Syntax**
StarQOSTPAction

**Access**
Read-only

**Object**
starSessSub1UpViolateAction

**Object ID**
enterprise.8164.1.34.77
**Description**

Uplink Violate Action. This value will be not applicable(1) if the value of starSessSub1UpTrafPolState is anything other than enabled(1).

**Syntax**

StarQOSTPAction

**Access**

Read-only

**Object**

starSessSub1UpExceed

**Object ID**

enterprise.8164.1.34.78

**Description**

Uplink packets exceeded bandwidth parameters

**Syntax**

Counter32

**Units**

packets

**Access**

Read-only

**Object**

starSessSub1UpViolate

**Object ID**

enterprise.8164.1.34.79

**Description**

Uplink packets violated bandwidth parameters

**Syntax**

Counter32

**Units**

packets

**Access**

Read-only

**Object**

starSessSub1L3TunnelingState
Object ID
enterprise.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
enterprise.8164.1.34.81

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

Syntax
IpAddress

Access
Read-only

Object
starSessSub1L3TunRemoteIPAddr

Object ID
enterprise.8164.1.34.82

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

Syntax
IpAddress

Access
Read-only

Object
starSessSub1AddrViaDHCP

Object ID
enterprise.8164.1.34.83

Syntax
Integer
### Starent Chassis Objects

**Access**  
Read-only

**Object**  
starSessSub1DHCPServName

**Object ID**  
enterprise.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**  
enterprise.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**  
enterprise.8164.1.34.86

**Syntax**  
Integer

**Access**  
Read-only

**Object**  
starSessSub1IgnoreDFBit
Object ID
enterprise.8164.1.34.87

Description
Ignore DF-bit data-tunnel

Syntax
Integer

Access
Read-only

Object
tarSessSub1MIP GratARPMo de

Object ID
enterprise.8164.1.34.88

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

Syntax
Integer

Access
Read-only

Object
tarSessSub1ExtInlSr vrProc

Object ID
enterprise.8164.1.34.89

Description
The state of external inline server processing

Syntax
Integer

Access
Read-only

Object
tarSessSub1ExtInlSr vrlngrIPAddr

Object ID
enterprise.8164.1.34.90

Description
The external inline server ingress IP address. This value is only valid if starSessSub1ExtInlSr vrlrProc is enabled(1)
Syntax
   IP Address

Access
   Read-only

Object
   starSessSub1ExtInlSrvrIngrVLANTag

Object ID
   enterprise.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
   enterprise.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
   enterprise.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
<table>
<thead>
<tr>
<th>Object</th>
<th>Description</th>
<th>Syntax</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>starSessSub1ExtInlSrvrVPNName</td>
<td>The external inline server context (VPN). This value is only valid if starSessSub1ExtInlSrvrProc is enabled(1)</td>
<td>DisplayString</td>
<td>Read-only</td>
</tr>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.34.94</td>
<td></td>
<td></td>
</tr>
<tr>
<td>starSessSub1RadAcctMode</td>
<td>Radius Accounting Mode</td>
<td>Integer</td>
<td>Read-only</td>
</tr>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.34.95</td>
<td></td>
<td></td>
</tr>
<tr>
<td>starSessSub1InBytesDropped</td>
<td>The count of incoming bytes dropped for the subscriber, in kilobytes, rounded down (i.e. 1023 bytes = 0 kilobytes)</td>
<td>Counter32</td>
<td>Read-only</td>
</tr>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.34.96</td>
<td></td>
<td></td>
</tr>
<tr>
<td>starSessSub1OutBytesDropped</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.34.97</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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
enterprise.8164.1.34.98

Description
Peak rate from user, in bytes per second.

Syntax
Gauge32

Access
Read-only

Object
starSessSub1PeakBPSRx

Object ID
enterprise.8164.1.34.99

Description
Peak rate to user, in bytes per second.

Syntax
Gauge32

Access
Read-only

Object
starSessSub1AveBPSTx

Object ID
enterprise.8164.1.34.100

Description
Average rate from user, in bytes per second.

Syntax
Gauge32
Access  Read-only

Object
starSessSub1AveBPSRx

Object ID
enterprise.8164.1.34.101

Description
Average rate to user, in bytes per second.

Syntax  Gauge32

Access  Read-only

Object
starSessSub1SustBPSTx

Object ID
enterprise.8164.1.34.102

Description
Sustained rate from user, in bytes per second.

Syntax  Gauge32

Access  Read-only

Object
starSessSub1SustBPSRx

Object ID
enterprise.8164.1.34.103

Description
Sustained rate to user, in bytes per second.

Syntax  Gauge32

Access  Read-only

Object
starSessSub1PeakPPSTx
Object ID
enterprise.8164.1.34.104

Description
Peak rate from user, in packets per second.

Syntax
Gauge32

Access
Read-only

Object
starSessSub1PeakPPSRx

Object ID
enterprise.8164.1.34.105

Description
Peak rate to user, in packets per second.

Syntax
Gauge32

Access
Read-only

Object
starSessSub1AvePPSTx

Object ID
enterprise.8164.1.34.106

Description
Average rate from user, in packets per second.

Syntax
Gauge32

Access
Read-only

Object
starSessSub1AvePPSRx

Object ID
enterprise.8164.1.34.107

Description
Average rate to user, in packets per second.
### starSessSub1SustPPSTx

**Object ID**
enterprise.8164.1.34.108

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

**Syntax**
Gauge32

**Access**
Read-only

### starSessSub1SustPPSRx

**Object ID**
enterprise.8164.1.34.109

**Description**
Sustained rate to user, in packets per second

**Syntax**
Gauge32

**Access**
Read-only

### starSessSub1ActivePct

**Object ID**
enterprise.8164.1.34.110

**Description**
Link online/active percentage.

**Syntax**
Integer32(0..100)

**Access**
Read-only
Object
starSessSub1IPv4BadHdr

Object ID
enterprise.8164.1.34.111

Description
IPv4 Bad Headers

Syntax
Counter32

Access
Read-only

Object
starSessSub1IPv4TtlExceeded

Object ID
enterprise.8164.1.34.112

Description
IPv4 Total Exceeded

Syntax
Counter32

Access
Read-only

Object
starSessSub1IPv4FragSent

Object ID
enterprise.8164.1.34.113

Description
IPv4 Fragments sent

Syntax
Counter32

Access
Read-only

Object
starSessSub1IPv4FragFail

Object ID
enterprise.8164.1.34.114
Description
IPv4 Could Not Fragment errors

Syntax
Counter32

Access
Read-only

Object
starSessSub1IPv4InACLDrop

Object ID
enterprise.8164.1.34.115

Description
IPv4 Input ACL Drops

Syntax
Counter32

Access
Read-only

Object
starSessSub1IPv4OutACLDrop

Object ID
enterprise.8164.1.34.116

Description
IPv5 Output ACL Drops

Syntax
Counter32

Access
Read-only

Object
starSessSub1IPv4InCSSDownDrop

Object ID
enterprise.8164.1.34.117

Description
IPv4 Input CSS Down Drops

Syntax
Counter32
Access  Read-only

Object
starSessSub1IPv4OutCSSDownDrop

Object ID
enterprise.8164.1.34.118

Description
IPv4 Output CSS Down Drops

Syntax
Counter-32

Access  Read-only

Object
starSessSub1IPv4OutXOFFDropPkt

Object ID
enterprise.8164.1.34.119

Description
IPv4 Output XOFF Packets Drop

Syntax
Counter32

Access  Read-only

Object
starSessSub1IPv4OutXOFFDropByte

Object ID
enterprise.8164.1.34.120

Description
IPv4 Output XOFF Bytes Drop

Syntax
Counter-32

Access  Read-only

Object
starSessSub1IPv4SrcViol
Object ID  
enterprise.8164.1.34.121

Description  
IPv4 Source Violations

Syntax  
Counter32

Access  
Read-only

Object  
starSessSub1IPv4ProxyDNSRedir

Object ID  
enterprise.8164.1.34.122

Description  
IPv4 Proxy-DNS Redirect

Syntax  
Counter32

Access  
Read-only

Object  
starSessSub1IPv4SrcProxyDNSPThru

Object ID  
enterprise.8164.1.34.123

Description  
IPv4 Proxy-DNS Pass-Thru

Syntax  
Counter32

Access  
Read-only

Object  
starSessSub1IPv4ProxyDNSDrop

Object ID  
enterprise.8164.1.34.124

Description  
IPv4 Proxy-DNS Drop
Syntax
Counter32

Access
Read-only

Object
starSessSub1IPv4SrcViolNoAcct

Object ID
to.8164.1.34.125

Description
IPv4 Source Violations No Account

Syntax
Counter32

Access
Read-only

Object
starSessSub1IPv4SrcViolIgnored

Object ID
to.8164.1.34.126

Description
IPv4 Source Violations Ignored

Syntax
Counter32

Access
Read-only

Object
starSessSub1ExtInlSrvrTxPkt

Object ID
to.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
enterprise.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
enterprise.8164.1.34.129

Description
IPv4 ICMP Packets dropped

Syntax
Counter32

Access
Read-only

Object
starSessSub1TunnelType

Object ID
enterprise.8164.1.34.130

Description
Tunnel Type

Syntax
Integer

Access
Read-only

Object
starSessSub1IPSECTunDownDropPkt

Object ID
enterprise.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**
enterprise.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**
enterprise.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**
enterprise.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  enterprise.8164.1.34.135

Description  Access flows

Syntax  Gauge32
Access  Read-only

Object  
starSessSub1TFT

Object ID  enterprise.8164.1.34.136

Description  Number of TFTs

Syntax  Gauge32
Access  Read-only

Object  
starSessSub1NASPort

Object ID  enterprise.8164.1.34.137

Description  NAS port

Syntax  Integer32
Access  Read-only
Object

starSessSub1CorrID

Object ID
enterprise.8164.1.34.139

Description
ThreeGPP2-correlation-id (C2)

Syntax
Octet String

Access
Read-only

Object

starSessSub1L2TPPeerIPAddr

Object ID
enterprise.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
enterprise.8164.1.34.141

Description
IPv4 early PDU received

Syntax
Counter32

Access
Read-only

enterprise.8164.1.starentNwReachServer(35)

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

`starNwReachTable`

**Object ID**

`enterprise.8164.1.35.1`

**Description**

A table containing Network Reachable Server information

**Syntax**

`SEQUENCE OF StarNwReachEntry`

**Access**

`not-accessible`

---

**Object**

`starNwReachEntry`

**Object ID**

`enterprise.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**

`enterprise.8164.1.35.1.1.1`

**Description**

The Name for this Network Reachable Server

**Syntax**

`OCTET STRING (SIZE (1..16))`

**Access**

`accessible-for-notify`
starNwReachSrvrAddr

Object ID
enterprise.8164.1.35.1.1.2

Description
The IP Address for the Network Reachable Server

Syntax
IpAddress

Access
accessible-for-notify

**enterprise.8164.1.starentIPSEC(36)**

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

<table>
<thead>
<tr>
<th>Object</th>
</tr>
</thead>
<tbody>
<tr>
<td>starIPSECCtxtName</td>
</tr>
</tbody>
</table>

Object ID
enterprise.8164.1.36.1

Description
The name of a context

Syntax
DisplayString

Access
accessible-for-notify

<table>
<thead>
<tr>
<th>Object</th>
</tr>
</thead>
<tbody>
<tr>
<td>starIPSECGroupName</td>
</tr>
</tbody>
</table>

Object ID
enterprise.8164.1.36.2

Description
The name of a crypto map

Syntax
DisplayString

Access
accessible-for-notify
starIPSECTunLocalIPAddr

Object ID
enterprise.8164.1.36.3

Description
The local IP Address for an IPSEC tunnel

Syntax
DisplayString

Access
accessible-for-notify

starIPSECTunRemoteIPAddr

Object ID
enterprise.8164.1.36.4

Description
The local IP Address for an IPSEC tunnel

Syntax
DisplayString

Access
accessible-for-notify

starIPSECPolicyName

Object ID
enterprise.8164.1.36.5

Description
An IPSEC policy name

Syntax
DisplayString

Access
accessible-for-notify

starIPSECDynPolicyType

Object ID
enterprise.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)
subbribertemplate(3)
subbribertunnel(4)
test(5)
dynamic(6)

Object
starIPSECDynPolicyPayloadType

Object ID
enterprise.8164.1.36.7

Description
An IPSEC dynamic policy payload type

Syntax
Integer

Access
accessible-for-notify

Object
starIPSECLocalGateway

Object ID
enterprise.8164.1.36.8

Description
IP address of IPSec local gateway

Syntax
IpAddress

Access
accessible-for-notify
starIPSECRemoteGateway

Object ID
enterprise.8164.1.36.9

Description
IP address of IPSec remote gateway

Syntax
IpAddress

Access
accessible-for-notify

enterprise.8164.1.starentSIPRoute(37)

Object
starSIPRouteTable

Object ID
enterprise.8164.1.37.1

Description
A table containing SIPRoute related information

Syntax
SEQUENCE OF StarSIPRouteEntry

Access
not-accessible

Object
starSIPRouteEntry

Object ID
enterprise.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
enterprise.8164.1.37.1.1.1

Description
The internal identification of the VPN (context)

Syntax
Gauge32

Access
not-accessible

Object

starSIPRouteVpnName

Object ID
enterprise.8164.1.37.1.1.2

Description
The name of this VPN (context)

Syntax
DisplayString

Access
Read-only

Object

starSIPRouteVmgName

Object ID
enterprise.8164.1.37.1.1.3

Description
The name of this VMG (context)

Syntax
DisplayString
Access
Read-only

Object
starSIPRouteAsName

Object ID
teletr.8164.1.37.1.1.4

Description
The name of this AS (context)

Syntax
DisplayString

Access
Read-only

Object
starSIPRouteDestPartyNum

Object ID
enterprise.8164.1.37.1.1.5

Description
The dest. party number

Syntax
DisplayString

Access
Read-only

Object
starSIPRouteReqNum

Object ID
enterprise.8164.1.37.1.1.6

Description
The request number

Syntax
DisplayString

Access
Read-only
enterprise.8164.1.starentRPServiceOption(38)

Object
starRPServiceOptionTable

Object ID
enterprise.8164.1.38.1

Syntax
SEQUENCE OF StarRPServiceOptionEntry

Access
not-accessible

Object
starRPServiceOptionEntry

Object ID
enterprise.8164.1.38.1.1

Syntax
StarRPServiceOptionEntry

Access
not-accessible

Sequence
starRPServiceOptionNum
starRPServiceOptionCalls

Object
starRPServiceOptionNum

Object ID
enterprise.8164.1.38.1.1.1

Syntax
Integer32(1..255)

Access
not-accessible

Object
starRPServiceOptionCalls

Object ID
enterprise.8164.1.38.1.1.2
enterprise.8164.1.starentPCFStats(39)

Object
starPCFStatTable

Object ID
enterprise.8164.1.39.1

Description
A table containing per-PCF statistics.

Syntax
SEQUENCE OF StarPCFStatEntry

Access
not-accessible

Object
starPCFStatEntry

Object ID
enterprise.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
enterprise.8164.1.39.1.1.1

Description
The internal identification of the VPN (context).

Syntax
Gauge32

Access
not-accessible

Object
starPCFStatIpAddr

Object ID
enterprise.8164.1.39.1.1.2

Description
The IP address of the specific PCF.

Syntax
IpAddress

Access
not-accessible

Object
starPCFStatVpnName

Object ID
enterprise.8164.1.39.1.1.3
Description
The name of the VPN (context).

Syntax
DisplayString

Access
Read-only

Object
starPCFStatRxPkts

Object ID
enterprise.8164.1.39.1.1.4

Description
Total packets received.

Syntax
Counter32

Units
Millions

Access
Read-only

Object
starPCFStatTxPkts

Object ID
enterprise.8164.1.39.1.1.5

Description
total packets transferred.

Syntax
Counter32

Units
Millions

Access
Read-only

Object
starPCFStatRxBytes

Object ID
enterprise.8164.1.39.1.1.6
Description
Total bytes received.

Syntax
Counter32

Units
Megabytes

Access
Read-only

Object
starPCFStatTxBytes

Object ID
enterprise.8164.1.39.1.1.7

Description
Total bytes send.

Syntax
Counter32

Units
Megabytes

Access
Read-only

Object
starPCFStatTotalSessions

Object ID
enterprise.8164.1.39.1.1.8

Description
Total number of sessions.

Syntax
Counter32

Access
Read-only

Object
starPCFStatCurrentSessions

Object ID
enterprise.8164.1.39.1.1.9
Description
Total current sessions.

Syntax
Gauge32

Access
Read-only

Object
starPCFStatCurrentActiveSessions

Object ID
enterprise.8164.1.39.1.1.10

Description
Total number of current active sessions.

Syntax
Gauge32

Access
Read-only

Object
starPCFStatCurrentDormantSessions

Object ID
enterprise.8164.1.39.1.1.11

Description
Total Numbers of current dormant sessions.

Syntax
Gauge32

Access
Read-only

Object
starPCFStatCurrentSIPConnected

Object ID
enterprise.8164.1.39.1.1.12

Description
Total number of Simple IP sessions connected.
Access  
Read-only

**Object**

starPCFStatCurrentMIPConnected

Object ID  
enterprise.8164.1.39.1.1.13

Description  
Total number of Mobile IP sessions connected.

Syntax  
Gauge32

Access  
Read-only

**Object**

starPCFStatCurrentPMIPConnected

Object ID  
enterprise.8164.1.39.1.1.14

Description  
Total number of Proxy Mobile IP sessions connected.

Syntax  
Gauge32

Access  
Read-only

**Object**

starPCFStatCurrentL2TPLACConnected

Object ID  
enterprise.8164.1.39.1.1.15

Description  
Total number of current L2TP LAC connected.

Syntax  
Gauge32

Access  
Read-only

**Object**

starPCFStatCurrentOtherConnected
Object ID
enterprise.8164.1.39.1.1.16

Description
Total number of other connections.

Syntax
Gauge32

Access
Read-only

Object
starPCFTable

Object ID
enterprise.8164.1.39.2

Description
A table of per service PCF statistics

Syntax
Gauge32

Access
Read-only

Object
starPCFEntry

Object ID
enterprise.8164.1.39.2.1

Description
The statistics for a specific PCF per service

Syntax
StarPCFEntry

Access
not-accessible

Object
starPCFSvcID

Object ID
enterprise.8164.1.39.2.1.1
Description
The service identification is made up from first 8 chars of context name and first 8 chars of service name separated by
(;) with the length of this structure at the beginning.

Syntax
StarShortID

Access
Read-only

Object
starPCFIpAddr

Object ID
enterprise.8164.1.39.2.1.2

Description
The PCF IP address

Syntax
IpAddress

Access
Read-only

Object
starPCFVpnID

Object ID
enterprise.8164.1.39.2.1.3

Description
The internal identification of the VPN (context)

Syntax
Gauge32

Access
Read-only

Object
starPCFVpnName

Object ID
enterprise.8164.1.39.2.1.4

Description
The VPN (context) name
Syntax
DisplayString

Access
Read-only

Object
starPCFServName

Object ID
enterprise.8164.1.39.2.1.5

Description
The name of this service.

Syntax
DisplayString

Access
Read-only

Object
starPCFRrqRcvd

Object ID
enterprise.8164.1.39.2.1.6

Description
Number of rrq received.

Syntax
StarShortID

Access
Read-only

Object
starPCFRrqAccepted

Object ID
enterprise.8164.1.39.2.1.7

Description
Number of rrq accepted.

Syntax
Counter32

Access
Read-only
Object
starPCFRrqDenied

Object ID
textualConvention:enterprise.8164.1.39.2.1.8

Description
Number of rrq denied

Syntax
Counter32

Access
Read-only

Object
starPCFRrqDiscarded

Object ID
textualConvention:enterprise.8164.1.39.2.1.9

Description
Number of rrq discarded.

Syntax
Counter32

Access
Read-only

Object
starPCFInitialRrqRcvd

Object ID
textualConvention:enterprise.8164.1.39.2.1.10

Description
Initial rrq received.

Syntax
Counter32

Access
Read-only

Object
starPCFInitialRrqAccepted

Object ID
textualConvention:enterprise.8164.1.39.2.1.11
Starent Chassis Objects

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Description
Initial rrq accepted.

Syntax
Counter32

Access
Read-only

Object
starPCFIntraPDSNAcceptedHORrqAccepted

Object ID
enterprise.8164.1.39.2.1.12

Description
Intra PDSN active handoff rrq accepted.

Syntax
Counter32

Access
Read-only

Object
starPCFIntraPDSNDormantHORrqAccepted

Object ID
enterprise.8164.1.39.2.1.13

Description
Intra PDSN dormant handoff rrq accepted.

Syntax
Counter32

Access
Read-only

Object
starPCFInterPDSNHORrqAccepted

Object ID
enterprise.8164.1.39.2.1.14

Description
Inter PDSN handoff rrq accepted.

Syntax
Counter32
### Starent Chassis Objects

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---

**Access**
Read-only

**Object**
starPCFInitialRrqDenied

**Object ID**
enterprise.8164.1.39.2.1.15

**Description**
Initial rrq denied.

**Syntax**
Counter32

**Access**
Read-only

**Object**
starPCFInitialRrqDiscarded

**Object ID**
enterprise.8164.1.39.2.1.16

**Description**
Initial rrq discarded.

**Syntax**
Counter32

**Access**
Read-only

**Object**
starPCF Renew Rrq Rcvd

**Object ID**
enterprise.8164.1.39.2.1.17

**Description**
Renew rrq received.

**Syntax**
Counter32

**Access**
Read-only

**Object**
starPCF Renew Rrq Accepted
Object ID
enterprise.8164.1.39.2.1.18

Description
Renew rq accepted.

Syntax
Counter32

Access
Read-only

Object
starPCFRenewActiveRrqAccepted

Object ID
enterprise.8164.1.39.2.1.19

Description
Renew active rq accepted.

Syntax
Counter32

Access
Read-only

Object
starPCFRenewDormantRrqAccepted

Object ID
enterprise.8164.1.39.2.1.20

Description
Renew dormant rq accepted.

Syntax
Counter32

Access
Read-only

Object
starPCFRenewRrqDenied

Object ID
enterprise.8164.1.39.2.1.21

Description
Renew rq denied.
Syntax
Counter32

Access
Read-only

Object
starPCFRenewRrqDiscarded

Object ID
enterprise.8164.1.39.2.1.22

Description
Renew rrq discarded.

Syntax
Counter32

Access
Read-only

Object
starPCFDeregRrqRcvd

Object ID
enterprise.8164.1.39.2.1.23

Description
Deregistration rrq received.

Syntax
Counter32

Access
Read-only

Object
starPCFDeregRrqAccepted

Object ID
enterprise.8164.1.39.2.1.24

Description
Deregistration rrq accepted.
Object
starPCFDeregDormantRrqAccepted

Object ID
enterprise.8164.1.39.2.1.25

Description
Deregistration dormant rq accepted.

Syntax
Counter32

Access
Read-only

Object
starPCFDeregRrqDenied

Object ID
enterprise.8164.1.39.2.1.26

Description
Deregistration rq denied.

Syntax
Counter32

Access
Read-only

Object
starPCFDeregRrqDiscarded

Object ID
enterprise.8164.1.39.2.1.27

Description
Deregistration rq discarded.

Syntax
Counter32

Access
Read-only

Object
starPCFIntraPDSNAActiveAnidHORrqAccepted

Object ID
enterprise.8164.1.39.2.1.28
Description
Intra PDSN active anid handoff rq accepted.

Syntax
Counter32

Access
Read-only

Object
starPCFIntraPDSNDormantAnidHORrqAccepted

Object ID
enterprise.8164.1.39.2.1.29

Description
Intra PDSN dormant anid handoff rq accepted.

Syntax
Counter32

Access
Read-only

Object
starPCFDeniedUnSpeReason

Object ID
enterprise.8164.1.39.2.1.30

Description
Denied unspecified reason.

Syntax
Counter32

Access
Read-only

Object
starPCFDeniedAdmProh

Object ID
enterprise.8164.1.39.2.1.31

Description
Denied admin prohibited.

Syntax
Counter32
<table>
<thead>
<tr>
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<th>Read-only</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object</strong></td>
<td>starPCFDeniedAdmProh</td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.39.2.1.32</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Denied insufficient resources.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Counter32</td>
</tr>
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</table>

<table>
<thead>
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</thead>
<tbody>
<tr>
<td><strong>Object</strong></td>
<td>starPCFDeniedMobNodeAuthFail</td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.39.2.1.33</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Denied mobile node authentication failure.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Counter32</td>
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</tbody>
</table>

<table>
<thead>
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<th>Access</th>
<th>Read-only</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object</strong></td>
<td>starPCFDeniedIdentMismatch</td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.39.2.1.34</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Denied identification mismatch.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Counter32</td>
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</table>

<table>
<thead>
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<th>Access</th>
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</thead>
<tbody>
<tr>
<td><strong>Object</strong></td>
<td>starPCFDeniedPoorFormedReq</td>
</tr>
</tbody>
</table>
Object ID
enterprise.8164.1.39.2.1.35

Description
Denied poor formed request.

Syntax
Counter32

Access
Read-only

Object
starPCFDeniedUnknownPDSNAddr

Object ID
enterprise.8164.1.39.2.1.36

Description
Denied unknown PDSN address.

Syntax
Counter32

Access
Read-only

Object
starPCFDeniedRevTunnelUnavail

Object ID
enterprise.8164.1.39.2.1.37

Description
Denied rev tunnel unavailable.

Syntax
Counter32

Access
Read-only

Object
starPCFDeniedRevTunnelRequire

Object ID
enterprise.8164.1.39.2.1.38

Description
Denied rev tunnel required.
Syntax
   Counter32

Access
   Read-only

Object
   starPCFDeniedUnrecogVendorId

Object ID
   enterprise.8164.1.39.2.1.39

Description
   Denied unrecognized vendor id.

Syntax
   Counter32

Access
   Read-only

Object
   starPCFDeniedSessionClosed

Object ID
   enterprise.8164.1.39.2.1.40

Description
   Denied session closed.

Syntax
   Counter32

Access
   Read-only

Object
   starPCFDeniedBsnSessionInfoUnavail

Object ID
   enterprise.8164.1.39.2.1.41

Description
   Denied bsn session information unavailable.

Syntax
   Counter32

Access
   Read-only
Object
  starPCFegUpdTransmitted

Object ID
  enterprise.8164.1.39.2.1.42

Description
  Registration updates transmitted.

Syntax
  Counter32

Access
  Read-only

Object
  starPCFRegUpdAccepted

Object ID
  enterprise.8164.1.39.2.1.43

Description
  Registration updates accepted.

Syntax
  Counter32

Access
  Read-only

Object
  starPCFRegUpdateRpLifetimeExpire

Object ID
  enterprise.8164.1.39.2.1.44

Description
  Registration update rp life time expiry.

Syntax
  Counter32

Access
  Read-only

Object
  starPCFRegUpdateUpperLayerInitiated

Object ID
  enterprise.8164.1.39.2.1.45
**Description**
Registration update upper layer initiated

**Syntax**
Counter32

**Access**
Read-only

**Object**
starPCFRegUpdateOtherReason

**Object ID**
enterprise.8164.1.39.2.1.46

**Description**
Registration update other reason.

**Syntax**
Counter32

**Access**
Read-only

**Object**
starPCFRegUpdateHORelease

**Object ID**
enterprise.8164.1.39.2.1.47

**Description**
Registration update handoff release.

**Syntax**
Counter32

**Access**
Read-only

**Object**
starPCFRegUpdateSessmgrDied

**Object ID**
enterprise.8164.1.39.2.1.48

**Description**
Registration update sessmgr denied.

**Syntax**
Counter32
Access  
Read-only

Object  
starPCFAuxA10ConnectionsSetup

Object ID  
enterprise.8164.1.39.2.1.49

Description  
Aux a10 connections setup.

Syntax  
Counter32

Access  
Read-only

Object  
starPCFSessionsDenied

Object ID  
enterprise.8164.1.39.2.1.50

Description  
Number of sessions denied.

Syntax  
Counter32

Access  
Read-only

Object  
starPCFSessionsInit

Object ID  
enterprise.8164.1.39.2.1.51

Description  
Number of sessions initiated.

Syntax  
Counter32

Access  
Read-only

Object  
starPCFSessionsReneg
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<tr>
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<th>enterprise.8164.1.39.2.1.52</th>
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<tr>
<td>Description</td>
<td>Number of PCF sessions renegotiated.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Counter32</td>
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<tr>
<td>Access</td>
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<tr>
<td>Object</td>
<td>starPCFDiscLcpRemote</td>
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</tbody>
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<tbody>
<tr>
<td>Description</td>
<td>Disconnect reason lcp remote.</td>
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<tr>
<td>Syntax</td>
<td>Counter32</td>
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<tr>
<td>Access</td>
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<tr>
<td>Object</td>
<td>starPCFDiscRpRemote</td>
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<th>enterprise.8164.1.39.2.1.54</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Disconnect reason rp remote.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Counter32</td>
</tr>
<tr>
<td>Access</td>
<td>Read-only</td>
</tr>
<tr>
<td>Object</td>
<td>starPCFDiscRpLocal</td>
</tr>
</tbody>
</table>

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Disconnect reason rp local.</td>
</tr>
</tbody>
</table>
Syntax
Counter32

Access
Read-only

Object
starPCFDiscMaxIpcpRetr

Object ID
enterprise.8164.1.39.2.1.56

Description
Disconnect reason ppp maximum ipcp retries.

Syntax
Counter32

Access
Read-only

Object
starPCFDiscMaxIpv6cpRetr

Object ID
enterprise.8164.1.39.2.1.57

Description
Disconnect reason max ipv6cp retries.

Syntax
Counter32

Access
Read-only

Object
starPCFDiscMaxLcpRetr

Object ID
enterprise.8164.1.39.2.1.58

Description
Disconnect reason max lcp retries.
Object

starPCFDiscAuthFail

Object ID

enterprise.8164.1.39.2.1.59

Description

Disconnect reason authentication failure.

Syntax

Counter32

Access

Read-only

Object

starPCFDiscSessSetupTimeout

Object ID

enterprise.8164.1.39.2.1.60

Description

Disconnect reason session setup timeout.

Syntax

Counter32

Access

Read-only

Object

starPCFDiscFlowAddFail

Object ID

enterprise.8164.1.39.2.1.61

Description

Disconnect reason flow add failure.

Syntax

Counter32

Access

Read-only

Object

starPCFDiscInvDestContext

Object ID

enterprise.8164.1.39.2.1.62
**Description**
Disconnect reason invalid destination context.

**Syntax**
Counter32

**Access**
Read-only

**Object**
starPCFDiscLcpOptFail

**Object ID**
enterprise.8164.1.39.2.1.63

**Description**
Disconnect reason lcp option failure.

**Syntax**
Counter32

**Access**
Read-only

**Object**
starPCFDiscLcpOptFail

**Object ID**
enterprise.8164.1.39.2.1.64

**Description**
Disconnect reason lcp option failure.

**Syntax**
Counter32

**Access**
Read-only

**Object**
starPCFDiscIpv6cpOptFail

**Object ID**
enterprise.8164.1.39.2.1.65

**Description**
Disconnect reason ipv6cp option failure.

**Syntax**
Counter32
Access
Read-only

Object
starPCFDiscNoRemIpAddr

Object ID
enterprise.8164.1.39.2.1.66

Description
Disconnect reason no ip remote ip address.

Syntax
Counter32

Access
Read-only

Object
starPCFDiscDetectionFail

Object ID
enterprise.8164.1.39.2.1.67

Description
Disconnect reason detection failure.

Syntax
Counter32

Access
Read-only

Object
starPCFDiscMisc

Object ID
enterprise.8164.1.39.2.1.68

Description
Disconnect reason miscellaneous.

Syntax
Counter32

Access
Read-only

Object
starPCFCurrentSessions
Object ID
enterprise.8164.1.39.2.1.69

Description
Current sessions.

Syntax
Counter32

Access
Read-only

Object
starPCFSessionsSetup

Object ID
enterprise.8164.1.39.2.1.70

Description
Session setup.

Syntax
Counter32

Access
Read-only

Object
starPCFSessionsRelease

Object ID
enterprise.8164.1.39.2.1.71

Description
Sessions release.

Syntax
Counter32

Access
Read-only

Object
starPCFCurrentRevaSessions

Object ID
enterprise.8164.1.39.2.1.72

Description
Current reva sessions.
Syntax
Counter32

Access
Read-only

Object
starPCFRevaSessionsSetup

Object ID
enterprise.8164.1.39.2.1.73

Description
Reva session setup.

Syntax
Counter32

Access
Read-only

Object
starPCFRevaSessionsRelease

Object ID
enterprise.8164.1.39.2.1.74

Description
Reva session release

Syntax
Counter32

Access
Read-only

enterprise.8164.1.starentSIPRouteServer(40)

Object
starSIPRouteServerTable

Object ID
enterprise.8164.1.40.1

Description
A table containing SIPRouteServer related information

Syntax
SEQUENCE OF StarSIPRouteServerEntry
Object  
starSIPRouteServerEntry

Object ID  
enterprise.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  
enterprise.8164.1.40.1.1.1

Description  
The internal identification of the VPN (context).

Syntax  
Gauge32

Access  
not-accessible

Object  
starSIPRouteServerVpnName

Object ID  
enterprise.8164.1.40.1.1.2

Description  
The name of the VPN (context).
Syntax
DisplayString

Access
Read-only

Object
starSIPRouteServerVmgName

Object ID
enterprise.8164.1.40.1.1.3

Description
The name of the VMG (context).

Syntax
DisplayString

Access
Read-only

Object
starSIPRouteServerAsName

Object ID
enterprise.8164.1.40.1.1.4

Description
The name of the AS (context).

Syntax
DisplayString

Access
Read-only

Object
starSIPRouteServerIpAddr

Object ID
enterprise.8164.1.40.1.1.5

Description
The SIP Route Server IP address.

Syntax
IP Address in dotted decimal notation

Access
Read-only
enterprise.8164.1.starentVIMService(41)

Object
   starVIMServiceTable

Object ID
   enterprise.8164.1.41.1

Description
   A table containing VIM's Service related information

Syntax
   SEQUENCE OF StarVIMServiceEntry

Access
   not-accessible

Object
   starVIMServiceEntry

Object ID
   enterprise.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
   enterprise.8164.1.41.1.1.1

Description
   The internal identification of the VPN (context)
Syntax
Gauge32

Access
not-accessible

Object
cstarVIMServiceVpnName

Object ID
enterprise.8164.1.41.1.1.2

Description
The name of this VPN (context)

Syntax
DisplayString

Access
Read-only

Object
cstarVIMServiceInstanceId

Object ID
enterprise.8164.1.41.1.1.3

Description
The VIM Instance ID

Syntax
Unsigned32

Access
accessible-for-notify

Object
cstarVIMServiceFMDMaxCallRate

Object ID
enterprise.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
enterprise.8164.1.41.1.1.5

Description
Configured FMD continuous load count

Syntax
Unsigned32

Access
Read-only

**enterprise.8164.1.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
enterprise.8164.1.42.1

Description
The name of the Storage Server Cluster

Syntax
DisplayString

Access
accessible-for-notify

Object
starGSSClusterNodeName

Object ID
enterprise.8164.1.42.2

Description
The name of a node within a Storage Server Cluster

Syntax
DisplayString
**starGSSClusterRgName**

**Object ID**
enterprise.8164.1.42.3

**Description**
The name of the Storage Server Cluster Resource Group

**Syntax**
DisplayString

**Access**
accessible-for-notify

**starGSSClusterRsName**

**Object ID**
enterprise.8164.1.42.4

**Description**
The name of the Storage Server Cluster Resource

**Syntax**
DisplayString

**Access**
accessible-for-notify

**starGSSClusterNodeState**

**Object ID**
enterprise.8164.1.42.5

**Description**
Status of the Storage Server Cluster node

**Syntax**
DisplayString

**Access**
accessible-for-notify

**starGSSClusterPrevOnlineNode**
Object ID
enterprise.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
enterprise.8164.1.42.7

Description
Information from Storage Server Cluster to node

Syntax
DisplayString

Access
accessible-for-notify

Object
starGSSClusterToNode

Object ID
enterprise.8164.1.42.8

Description
Information from node to Storage Server Cluster

Syntax
DisplayString

Access
accessible-for-notify

Object
starGSSDiskPath

Object ID
enterprise.8164.1.42.9

Description
Path information of Storage Server disk
Object:
starGSSTransportPath

Object ID:
enterprise.8164.1.42.10

Description:
Path information of Storage Server for data transportation

Object:
starGSSIPMPGroupName

Object ID:
enterprise.8164.1.42.11

Description:
Name of the IPMP group for GSS

Object:
starGSSInterfaceName

Object ID:
enterprise.8164.1.42.12

Description:
Name of the GSS interface
enterprise.8164.1.starentPDIFSys(43)

Object
starPDIFSysStatus

Object ID
enterprise.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
enterprise.8164.1.43.2

Description
The number of PDIF services configured

Syntax
Unsigned32

Units
Services

Access
Read-only

Object
starPDIFSysSessCurrent
Object ID
enterprise.8164.1.43.3

Description
The number of current PDIF sessions for this chassis

Syntax
Gauge32

Access
Read-only

Object
starPDIFSysSessCurrActive

Object ID
enterprise.8164.1.43.4

Description
The number of currently active PDIF sessions for this chassis

Syntax
Gauge32

Access
Read-only

Object
starPDIFSysSessCurrDormant

Object ID
enterprise.8164.1.43.5

Description
The number of currently dormant PDIF sessions for this chassis

Syntax
Gauge32

Access
Read-only

Object
starPDIFSysSessTtlSetup

Object ID
enterprise.8164.1.43.6

Description
The cumulative total number of PDIF sessions that have been setup.
Syntax
Counter32

Access
Read-only

Object
starPDIFSysChildSACurrent

Object ID
telnet.8164.1.43.7

Description
Number of current PDIF child SAs for the chassis

Syntax
Gauge32

Access
Read-only

**enterprise.8164.1.starPDIFService(44)**

Object
starPDIFTable

Object ID
telnet.8164.1.44.1

Description
A table of per-service PDIF information

Syntax
SEQUENCE OF StarPDIFEntry

Access
not-accessible

Object
starPDIFEntry

Object ID
telnet.8164.1.44.1.1

Description
The information for a PDIF service

Syntax
StarPDIFEntry
Starent Chassis Objects

MIB Textual Conventions

Cisco ASR 5x00 Series SNMP MIB Reference

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
enterprise.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
enterprise.8164.1.44.1.1.2
Description
The internal VPN (context) ID.

Syntax
Gauge32

Access
Read-only

Object
starPDIFVpnName

Object ID
enterprise.8164.1.44.1.1.3

Description
The VPN (context) name.

Syntax
DisplayString

Access
Read-only

Object
starPDIFServName

Object ID
enterprise.8164.1.44.11.1.4

Description
The name of this service

Syntax
DisplayString

Access
Read-only

Object
starPDIFStatus

Object ID
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.8164.1.44.1.1.11

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

Syntax
Gauge32
### Starent Chassis Objects

#### MIB Textual Conventions

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<td><strong>Object</strong></td>
<td></td>
</tr>
<tr>
<td>starPDIFSessCurrentIpv4Active</td>
<td></td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.44.1.1.12</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The number of currently active IPv4 sessions for this PDIF service.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Gauge32</td>
</tr>
<tr>
<td>Access</td>
<td>Read-only</td>
</tr>
<tr>
<td><strong>Object</strong></td>
<td></td>
</tr>
<tr>
<td>starPDIFSessCurrentIpv4Dormant</td>
<td></td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.44.1.1.13</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The number of currently dormant IPv4 sessions for this PDIF service.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Gauge32</td>
</tr>
<tr>
<td>Access</td>
<td>Read-only</td>
</tr>
<tr>
<td><strong>Object</strong></td>
<td></td>
</tr>
<tr>
<td>starPDIFBindIpAddress</td>
<td></td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.44.1.1.14</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The bind IP address for this PDIF service</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>IpAddress</td>
</tr>
<tr>
<td>Access</td>
<td>Read-only</td>
</tr>
<tr>
<td><strong>Object</strong></td>
<td></td>
</tr>
<tr>
<td>starPDIFBindIpPort</td>
<td></td>
</tr>
</tbody>
</table>
Object ID
enterprise.8164.1.44.1.1.15

Description
The bind IP port for this PDIF service

Syntax
Integer32

Access
Read-only

Object
starPDIFBindSlot

Object ID
enterprise.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
enterprise.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

enterprise.8164.1.starentSGSNService(45)

Object
starSGSNSerTable

Object ID
enterprise.8164.1.45.1
**Description**
A table containing SGSN related information.

**Syntax**
SEQUENCE OF StarSGSNSerEntry

**Access**
not-accessible

**Object**
starSGSNSerEntry

**Object ID**
enterprise.8164.1.45.1.1

**Description**
The statistics for a specific SGSN service.

**Syntax**
StarSGSNSerEntry

**Access**
not-accessible

**Sequence**

<table>
<thead>
<tr>
<th>Object</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>starSGSNSerVpnID</td>
<td>Gauge32</td>
</tr>
<tr>
<td>starSGSNSerSvcID</td>
<td>Gauge32</td>
</tr>
<tr>
<td>starSessSGSNVpnName</td>
<td>DisplayString</td>
</tr>
<tr>
<td>starSessSGSNServName</td>
<td>DisplayString</td>
</tr>
<tr>
<td>starLinkM3UASs7rdId</td>
<td>Gauge32</td>
</tr>
<tr>
<td>starSS7Pc</td>
<td>Gauge32</td>
</tr>
<tr>
<td>starLinkM3UAPsId</td>
<td>Gauge32</td>
</tr>
</tbody>
</table>

**Object**
starSGSNSerVpnID

**Object ID**
enterprise.8164.1.45.1.1.1

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

**Syntax**
Gauge32

**Access**
not-accessible
starSGNSerSvcID

Object ID
enterprise.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
enterprise.8164.1.45.1.1.3

Description
The name of this VPN (context).

Syntax
DisplayString

Access
read-only

Object
starSessSGNSServName

Object ID
enterprise.8164.1.45.1.1.4

Description
The name of this service.

Syntax
DisplayString

Access
read-only

Object
starSessSGSNMcc

Object ID
enterprise.8164.1.45.1.1.5
### Description
Mobile country code

### Syntax
Octet String (size1..3))

### Access
Read-only

#### Object
starSessSGSNMnc

#### Object ID
enterprise.8164.1.45.1.1.6

### Description
Mobile network code

### Syntax
Octet String (size1..3))

### Access
Read-only

#### Object
starSessSGSNRncId

#### Object ID
enterprise.8164.1.45.1.1.7

### Description
The RNC id

### Syntax
Gauge32

### Access
Read-only

#### Object
starSessSGSNHlrNum

#### Object ID
enterprise.8164.1.45.1.1.8

### Description
The HLR id

### Syntax
Octet String (Size(1..16))
Access
Read-only

enterprise.8164.1.starentSS7Rd(46)

Object
starSS7RdTable

Object ID
enterprise.8164.1.46.1

Description
Table containing SS7Rd-related information

Syntax
Sequence of StarSS7RdEntry

Access
not-accessible

Object
starSS7RdEntry

Object ID
enterprise.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
<table>
<thead>
<tr>
<th>Object</th>
<th>Description</th>
<th>Syntax</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>starSS7SCTPPeerPort</td>
<td>SS7 Routing Domain identification.</td>
<td>Gauge32</td>
<td>accessible-for-notify</td>
</tr>
<tr>
<td>starSS7CongLevel</td>
<td></td>
<td>Gauge32</td>
<td></td>
</tr>
<tr>
<td>starSS7LocalCong</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>starSS7CauseString</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>starSS7rdid</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Object ID
enterprise.8164.1.46.1.1.1

Description
Point Code.

Syntax
Gauge32

Access
not-accessible

Object
starSS7Pc

Object ID
enterprise.8164.1.46.1.1.2

Description
Peer Server identification.

Syntax
Gauge32

Access
Read-only
Object
  starSS7M3UAPspid

Object ID
  enterprise.8164.1.46.1.1.4

Description
  Peer Server Process Identification

Syntax
  Gauge32

Access
  Read-only

Object
  starSS7MTP3LinkSetId

Object ID
  enterprise.8164.1.46.1.1.5

Description
  MTP3 LinkSet Identifier

Syntax
  Gauge32

Access
  Read-only

Object
  starSS7MTP3LinkId

Object ID
  enterprise.8164.1.46.1.1.6

Description
  MTP3 Link Identifier

Syntax
  Gauge32

Access
  Read-only

Object
  starSS7SCTPSelfAddr

Object ID
  enterprise.8164.1.46.1.1.7
Description
Self-End-Point IP Address

Syntax
IpAddress

Access
Read-only

Object
starSS7SCTPPeerAddr

Object ID
enterprise.8164.1.46.1.1.8

Description
Peer Node IP Address

Syntax
IpAddress

Access
Read-Only

Object
starSS7SCTPSelfPort

Object ID
enterprise.8164.1.46.1.1.9

Description
Self end-point sctp port

Syntax
Gauge32

Access
Read-Only

Object
starSS7SCTPPeerPort

Object ID
enterprise.8164.1.46.1.1.10

Description
Peer end-point SCTP Port

Syntax
Gauge32
Access
Read-Only

Object
starSS7CongLevel

Object ID
text
enterprise.8164.1.46.1.1.11

Description
Congestion Level Value

Syntax
Gauge32

Access
Read-Only

Object
starSS7LocalCong

Object ID
text
enterprise.8164.1.46.1.1.12

Description
Local Congestion Value

Syntax
Gauge32

Access
Read-Only

Object
starSS7CauseString

Object ID
text
enterprise.8164.1.46.1.1.13

Description
Cause string for failure

Syntax
DisplayString

Access
Read-Only
enterprise.8164.1.starentSccpNw(47)

Object
global

starSccpNwTable

Object ID
enterprise.8164.1.47.1

Description
Table containing Sccp Network-related information

Syntax
Sequence of StarSccpNwEntry

Access
not-accessible

Object

starSccpNwEntry

Object ID
enterprise.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
enterprise.8164.1.47.1.1.1

Description
SCCP Network ID

Syntax
Gauge32
Starent Chassis Objects

Access accessible-for-notify

Object
tarSccpSsn

Object ID
terprise.8164.1.47.1.1.2

Description
Sub-system number

Syntax
Gauge32

Access
Read-only

enterprise.8164.1.starentSGTPService(48)

Object
tarSGTPSerTable

Object ID
terprise.8164.1.48.1

Description
Table containing SGTP Service-related info

Syntax
Sequence of StarSGTPSerEntry

Access
not-accessible

Object
tarSGTPSerEntry

Object ID
terprise.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

enterprise.8164.1.48.1.1.1

Description

Internal ID of the VPN (Context)

Syntax

Gauge32

Access

Not accessible

Object

- starSGTPSerSvcID

Object ID

enterprise.8164.1.48.1.1.2

Description

Internal service ID unique within this context

Syntax

Gauge32

Access

not-accessible

Object

- starSGTPVpnName

Object ID

enterprise.8164.1.48.1.1.3

Description

Name of this VPN (Context)
Syntax
  DisplayString

Access
  Read-only

Object
  starSGTPServName

Object ID
  enterprise.8164.1.48.1.1.4

Description
  Name of this service

Syntax
  DisplayString

Access
  Read-only

Object
  starSGTPSelfAddr

Object ID
  enterprise.8164.1.48.1.1.5

Description
  SGSN IP Address

Syntax
  IP Address

Access
  Read-only

Object
  starSGTPPeerAddr

Object ID
  enterprise.8164.1.48.1.1.6

Description
  IP Address for the PeerNode

Syntax
  IPAddress

Access
  Read-only
Object
starSGTPSelfPort

Object ID
enterprise.8164.1.48.1.1.7

Description
The self end point SGTP port

Syntax
Gauge32

Access
Read-only

Object
starSGTPPeerPort

Object ID
enterprise.8164.1.48.1.1.8

Description
The peer end point SGTP port

Syntax
Gauge32

Access
Read-only

enterprise.8164.1.starentIPMSServer(49)

Object
starIPMSServerTable

Object ID
enterprise.8164.1.49.1

Description
Table containing information on IPMS servers

Syntax
Sequence of StarIPMSServerEntry

Access
not-accessible
Sequence
starIPMSServerVpnIDGauge32
starIPMSServerAddrIpAddress
starIPMSServerVpnNameDisplayString

Object
starIPMSServerEntry

Object ID
enterprise.8164.1.49.1.1

Description
Information about a particular IPMS Server.

Syntax
Sequence of StarIPMSServerEntry

Access
not-accessible

Sequence
starIPMSServerVpnID Gauge32
starIPMSServerAddr Address
starIPMSServerVpnName DisplayString

Object
starIPMSServerVpnID

Object ID
enterprise.8164.1.49.1.1.1

Description
The internal identification of the VPN (context)

Syntax
Gauge32

Access
not-accessible

Object
starIPMSServerAddr

Object ID
enterprise.8164.1.49.1.1.2

Description
The IP address of the IPMS server within this VPN (context)
Syntax
IpAddress

Access
accessible-not-notify

Object
starIPMSServerVpnName

Object ID
enterprise.8164.1.49.1.1.3

Description
The name of this VPN (context)

Syntax
DisplayString

Access
read-only

enterprise.8164.1.starentCert(50)

Object
starCertTable

Object ID
enterprise.8164.1.50.1

Description
Table containing information on X.509 certificates

Syntax
Sequence of StarCertEntry

Access
not-accessible

Object
starCertEntry

Object ID
enterprise.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
enterprise.8164.1.50.1.1.1

Description
Certificate serial number

Syntax
DisplayString

Access
accessible-for-notify

Object
starCertExpiryTime

Object ID
enterprise.8164.1.50.1.1.2

Description
Certificate expiration date and time

Syntax
DateAndTime

Access
Read-only

Object
starCertIssuer

Object ID
enterprise.8164.1.50.1.1.3

Description
The certificate issuing agency

Syntax
DisplayString
Access
Read-Only

**enterprise.8164.1.starentFile(51)**

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

**Object**
starFileTable

**Object ID**
enterprise.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**
enterprise.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**
enterprise.8164.1.51.1.1.1

**Description**
The name (full path) of the file
Syntax
DisplayString

Access
accessible-for-notify

Object
starFileApplication

Object ID
enterprise.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)

enterprise.8164.1.starentFTPServ(52)

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

Object
starFTPServTable

Object ID
enterprise.8164.1.52.1

Description
A table of FTP servers configured

Syntax
SEQUENCE OF StarFTPServEntry

Access
not-accessible

Object
starFTPServEntry
Object ID
enterprise.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
enterprise.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
enterprise.8164.1.52.1.1.2

Description
The IP address of the FTP server

Syntax
IpAddress

Access
accessible-for-notify

Object
starFTPServVpnName
Object ID
enterprise.8164.1.52.1.1.3

Description
The name of the VPN (context)

Syntax
DisplayString

Access
not-accessible

enterprise.8164.1.starentCSCFPeerServer(53)

Object
starCSCFPeerServerTable

Object ID
enterprise.8164.1.53.1

Description
A table containing PeerServer related information

Syntax
SEQUENCE OF StarCSCFPeerServerEntry

Access
Not Accessible

Object
starCSCFPeerServerEntry

Object ID
enterprise.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

enterprise.8164.1.53.1.1.1

Description
The internal identification of the VPN (context)

Syntax
Gauge32

Access
Not Accessible

Object

starCSCFPeerServerSvcID

Object ID

enterprise.8164.1.53.1.1.2

Description
The internal identification of this CSCF service; unique

Syntax
Gauge32

Access
Not Accessible

Object

starCSCFPeerServerVpnName

Object ID

enterprise.8164.1.53.1.1.3

Description
The name of this VPN (context)

Syntax
DisplayString

Access
Read-Only

Object

starCSCFPeerServerSvcName
Object ID
enterprise.8164.1.53.1.1.4

Description
The name of this CSCF-service

Syntax
DisplayString

Access
Read-Only

Object
starCSCFPeerServerListName

Object ID
enterprise.8164.1.53.1.1.5

Description
The name of the cscf-peer-server

Syntax
DisplayString

Object
starCSCFPeerServerName

Object ID
enterprise.8164.1.53.1.1.6

Description
The name of the cscf-peer-server

Syntax
DisplayString

Object
starCSCFPeerServerState

Object ID
enterprise.8164.1.53.1.1.7

Description
The state of the cscf-peer-server.

Syntax
DisplayString
enterprise.8164.1.starentSDH(54)

Object
  starSDHTable

Object ID
eventprise.8164.1.54.1

Description
Table containing SDH information

Syntax
SEQUENCE OF StarSDHEntry

Access
Not Accessible

Object
  starSDHEntry

Object ID
eventprise.8164.1.54.1.1

Description
Statistical data

Syntax
StarSDHEntry

Access
Not Accessible

Sequence
  starSDHSLOT_INDEX
  starSDHPort_INDEX
  starSDHOperState

Object
  starSDHSLOT

Object ID
eventprise.8164.1.54.1.1.1

Description
The slot number for this port

Syntax
Integer32(17..48)
Access
accessible-for-notify

Object
 starSDHPort

Object ID
enterprise.8164.1.54.1.1.2

Description
The port number within this slot

Syntax
Integer32(1..8)

Access
accessible-for-notify

Object
 starSDHOperState

Object ID
enterprise.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

enterprise.8164.1.starentSDHPath(55)

Object
 starSDHPathTable
Object ID
enterprise.8164.1.55.1

Description
Table for SDH Path data

Syntax
SEQUENCE OF starSDHPathEntry

Access
Not Accessible

Object
starSDHPathEntry

Object ID
enterprise.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
enterprise.8164.1.55.1.1.1

Description
Slot number for this port

Syntax
Integer32(17..48)

Access
accessible-for-notify
starSDHPatPathPort

Object ID
enterprise.8164.1.55.1.1.2

Description
Port number within this slot

Syntax
Integer32(1..8)

Access
accessible-for-notify

Object
starSDHPatPathNum

Object ID
enterprise.8164.1.55.1.1.3

Description
Path number

Syntax
Integer32(1..3)

Access
accessible-for-notify

Object
starSDHPatPathOperState

Object ID
enterprise.8164.1.55.1.1.4

Description
A bitmask indicating the state of SDH Path HOP
0x0000 Good
0x0001 hopathsdf
0x0002 hopathsdsf
0x0020ppdi
0x0040 prdi
0x0080 perdi
0x0100 perdival
0x0200 perdivaloff
Syntax
Integer32

Access
Read-Only

enterprise.8164.1.starentE1Trib(56)

Object
starE1TribTable

Object ID
timeToLive

Description
Table for E1Trib data

Syntax
SEQUENCE OF StarE1TribEntry

Access
Not Accessible

Object
starE1TribEntry

Object ID
timeToLive

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
enterprise.8164.1.56.1.1.1

Description
The slot number for this port

Syntax
Integer32(17..48)

Access
accessible-for-notify

Object
starE1TribPort

Object ID
enterprise.8164.1.56.1.1.2

Description
The port number within this slot

Syntax
Integer32(1..8)

Access
accessible-for-notify

Object
starE1TribPath

Object ID
enterprise.8164.1.56.1.1.3

Description
Not shown

Syntax
Integer32(1..3)

Access
accessible-for-notify

Object
starE1TribTug2

Object ID
enterprise.8164.1.56.1.1.4
Description
Not shown

Syntax
Integer32(1..7)

Access
accessible-for-notify

Object
starE1TribTu12

Object ID
enterprise.8164.1.56.1.1.5

Description
Not shown

Syntax
Integer32(1..3)

Access
accessible-for-notify

Object
starE1TribOperStateLOP

Object ID
enterprise.8164.1.56.1.1.6

Description
A bitmask indicating the status 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
starE1TribOperState

Object ID
enterprise.8164.1.56.1.1.7

Description
A bitmask indicating the state of the E1 Tributary
- 0x0000 Good
- 0x0001 inf
- 0x0002 insmf
- 0x0004 incmf
- 0x0008 ooof
- 0x0010 raicrc
- 0x0020 cfebe
- 0x0040 rai
- 0x0080 rmai
- 0x0100 aisd
- 0x0200 red
- 0x0400 ais
- 0x0800 ts16aisd

Syntax
Integer32

Access
Read Only

enterprise.8164.1.starentGPRSLink(57)

Object
starGPRSLinkTable

Object ID
enterprise.8164.1.57.1

Description
A table containing GPRS Service Link related information.

Syntax
SEQUENCE of StarGPRSLinkEntry

Access
Not Accessible
starGPRSLinkEntry

Object ID
enterprise.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
enterprise.8164.1.57.1.1.1

Description
Network Service Entity Identifier

Syntax
Gauge32

Access
accessible-for-notify

Object
starGPRSNsvci

Object ID
enterprise.8164.1.57.1.1.2

Description
Network Service Virtual Circuit Identifier

Syntax
Gauge32

Access
Read-Only

Object
starGPRSBvci
Object ID
enterprise.8164.1.57.1.1.3

Description
Base Station System GPRS (General Packet Radio Service) Protocol Virtual Circuit Identifier.

Syntax
Gauge32

Access
Read-Only

enterprise.8164.1.starentFractE1Trib(58)

Object
starFractE1TribTable

Object ID
enterprise.8164.1.58.1

Description
A table ...

Syntax
SEQUENCE of StarFractTribEntry

Access
Not Accessible

Object
starFractE1TribEntry

Object ID
enterprise.8164.1.58.1.1

Description
Information about a specific Entry

Syntax
starFractE1TribEntry

Sequence
starFractE1TribSlot Integer32,
starFractE1TribPort Integer32,
starFractE1TribPath Integer32,
starFractE1TribTug2 Integer32,
starFractE1TribTu12 Integer32
<table>
<thead>
<tr>
<th>Object</th>
<th>starFractE1TribBundNum</th>
<th>Integer32,</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>starFractE1TribTimeslots</td>
<td>DisplayString</td>
</tr>
</tbody>
</table>

**Object**

**starFractE1TribSlot**

**Object ID**

enterprise.8164.1.58.1.1.1

**Description**

Slot number for this port

**Syntax**

Integer32(17..48)

**Access**

accessible-for-notify

**Object**

**starFractE1TribPort**

**Object ID**

enterprise.8164.1.58.1.1.2

**Description**

Port number within slot

**Syntax**

Integer32(1..8)

**Access**

accessible-for-notify

**Object**

**starFractE1TribPath**

**Object ID**

enterprise.8164.1.58.1.1.3

**Description**

Not shown

**Syntax**

Integer32(1..3)

**Access**

accessible-for-notify

**Object**

**starFractE1TribTug2**
Object ID
enterprise.8164.1.58.1.1.4

Description
Not shown

Syntax
Integer32(1..84)

Access
accessible-for-notify

Object
starFractE1TribTu12

Object ID
enterprise.8164.1.58.1.1.5

Description
Not Given

Syntax
Integer32(1..3)

Access
accessible-for-notify

Object
starFractE1TribBundNum

Object ID
enterprise.8164.1.58.1.1.6

Description
Not Given

Syntax
Integer32(0..31)

Access
Not Accessible

Object
starFractE1TribTimeslots

Object ID
enterprise.8164.1.58.1.1.7

Description
Not Given
enterprise.8164.1.starentStorage(59)

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

<table>
<thead>
<tr>
<th>Object</th>
<th>Description</th>
<th>Syntax</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>starStorageTable</td>
<td>A table of mass storage devices</td>
<td>SEQUENCE OF StarStorageEntry</td>
<td>Not Accessible</td>
</tr>
<tr>
<td>starStorageEntry</td>
<td>Information about a particular file on a mass storage device</td>
<td>StarStorageEntry</td>
<td>Not Accessible</td>
</tr>
</tbody>
</table>

**Sequence**

- starStorageSlot Integer32,
- starStorageName DisplayString,
- starStorageDeviceType INTEGER
Object ID
enterprise.8164.1.59.1.1.1

Description
The slot number of the card holding this storage device

Syntax
Integer32(1..16)

Access
accessible-for-notify

Object
starStorageName

Object ID
enterprise.8164.1.59.1.1.2

Description
The name of the storage device

Syntax
DisplayString

Access
accessible-for-notify

Object
starStorageDeviceType

Object ID
enterprise.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)
enterprise.8164.1.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

The 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

enterprise.8164.1.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
starFNGSvcID

Sequence
starFNGSvcID StarShortID
starFNGVpnID Gauge32
starFNGVpnName DisplayString
starFNGServName DisplayString
starFNGStatus INTEGER
starFNGSessCurrent Gauge32
starFNGSessRemain Gauge32
starFNGSessCurrentActive Gauge32
starFNGSessCurrentDormant Gauge32
starFNGSessCurrentIpv6Active Gauge32
starFNGSessCurrentIpv6Dormant Gauge32
starFNGSessCurrentIpv4Active Gauge32
starFNGSessCurrentIpv4Dormant Gauge32
starFNGBindIpAddress IpAddress
starFNGBindIpPort Integer32
starFNGBindIpPort Integer32
starFNGBindSlot Integer32
starFNGBindPort Integer32

Object ID
8164.1.61.1.1.1

Description
The service identification is made up from first 8 chars of context name and the 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
The VPN (context) name

Syntax
DisplayString

Access
read-only

Object
starFNGServName

Object ID
8164.1.61.1.1.4

Description
The 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)
Starent Chassis Objects

MIB Textual Conventions

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
The 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

enterprise.8164.1.starentPDG Sys(62)

Object
starPDG SysStatus

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

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Services

Object
starPDGSysSessCurrent

Object ID
8164.1.62.3

Description
The number of current PDG sessions for this chassis

Syntax
Gauge32

Access
read-only
<table>
<thead>
<tr>
<th>Object</th>
<th>starPDGSysSessCurrActive</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>8164.1.62.4</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The number of currently active PDG sessions for this chassis</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Gauge32</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>read-only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starPDGSysSessCurrDormant</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>8164.1.62.5</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The number of currently dormant PDG sessions for this chassis</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Gauge32</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>read-only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starPDGSysSessTtlSetup</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>8164.1.62.6</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The cumulative total number of PDG sessions that has been setup</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Counter32</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>read-only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starPDGSysChildSACurrent</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>8164.1.62.7</td>
</tr>
</tbody>
</table>
Description
The number of current PDG child SAs for this chassis

Syntax
Gauge32

Access
read-only

enterprise.8164.1.starentPDGService(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 starPDGSessCurrentIPv4Dormant 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

enterprise.8164.1.starentIPPoolGroup(64)

Object
starIPPoolGroupTable

Object ID
8164.1.64.1

Description
A table containing IP Pool Group information

Syntax
SEQUENCE OF StarIPPoolGroupEntry
Access
not-accessible

Object
starIPPoolGroupEntry

Object ID
8164.1.64.1.1

Description
Information for a specific IP Pool Group

Syntax
StarIPPoolGroupEntry

Access
not-accessible

Object
starIPPoolGroupVpnID

Object ID
8164.1.63.1.1.1

Description
The context ID for this pool group

Syntax
Gauge32

Access
not-accessible

Object
starIPPoolGroupID

Object ID
8164.1.64.1.1.2

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

Syntax
StarMediumID

Access
not-accessible
starIPPoolGroupName

Object ID
8164.1.64.1.1.3

Description
The name of the IP pool group

Syntax
DisplayString

Access
read-only

starIPPoolGroupVpnName

Object ID
8164.1.64.1.1.4

Description
The context name string for this pool group

Syntax
DisplayString

Access
read-only

starIPPoolGroupUsed

Object ID
8164.1.64.1.1.5

Description
The number of IP addresses in USED state in the pool group

Syntax
Gauge32

Access
read-only

starIPPoolGroupHold

Object ID
8164.1.64.1.1.6
Starent Chassis Objects

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Description

The number of IP addresses in HOLD state in the pool group

Syntax

Gauge32

Access

read-only

Object

starIPPoolGroupRelease

Object ID

8164.1.64.1.1.7

Description

The number of IP addresses in RELEASE state in the pool group

Syntax

Gauge32

Access

read-only

Object

starIPPoolGroupFree

Object ID

8164.1.64.1.1.8

Description

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

Syntax

Gauge32

Access

read-only

Object

starIPPoolGroupPctUsed

Object ID

8164.1.64.1.1.9

Description

The context name string for this pool group

Syntax

Integer32(0..10000)
Access
read-only

Object
starIPPoolGroupAvail

Object ID
8164.1.64.1.1.10

Description
The context name string for this pool group

Syntax
Gauge32

Access
read-only

enterprise.8164.1.starentHNBGWService(65)

Object
starHNBGWServTable

Object ID
8164.1.65.1

Description
The statistics for a specific HNBGW service

Syntax
StarHNBGWSerEntry

Access
not-accessible

Object
starHNBGWSerEntry

Object ID
8164.1.65.1.1

Description
The statistics for a specific HNBGW service

Syntax
StarHNBGWSerEntry

Access
not-accessible
<table>
<thead>
<tr>
<th>Object</th>
<th>Description</th>
<th>Syntax</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>starHNBGWSerVpnID</td>
<td>The internal identification of the VPN (context)</td>
<td>Gauge32</td>
<td>not-accessible</td>
</tr>
<tr>
<td>starHNBGWSerSvcID</td>
<td>The internal identification of this service; unique within a specific context</td>
<td>Gauge32</td>
<td>not-accessible</td>
</tr>
<tr>
<td>starSessHNBGWVpnName</td>
<td>The name of this VPN (context)</td>
<td>DisplayString</td>
<td>read-only</td>
</tr>
<tr>
<td>starSessHNBGWServName</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Description
The name of this Service

Syntax
DisplayString

Access
read-only

Object
starSessHNBGWCsNwName

Object ID
8164.1.65.1.1.5

Description
The name of the CS NW

Syntax
DisplayString

Access
read-only

Object
starSessHNBGWPsnWName

Object ID
8164.1.65.1.1.6

Description
The name of the PS NW

Syntax
DisplayString

Access
read-only

Object
starSessHNBGWSgsnPtCd

Object ID
8164.1.65.1.1.7

Description
SGSN Point Code

Syntax
Integer32
Access
read-only

Object
starSessHNBGWMscPtCd

Object ID
8164.1.65.1.1.8

Description
MSC Point Code

Syntax
Integer32

Access
read-only

enterprise.8164.1.starentALCAPService(66)

Object
starALCAPServTable

Object ID
8164.1.66.1

Description
A table containing ALCAP relate information.

Syntax
StarALCAPSerEntry

Access
not-accessible

Object
starALCAPSerEntry

Object ID
8164.1.66.1.1

Description
The statistics for a specific ALCAP service

Syntax
StarALCAPSerEntry

Access
not-accessible
<table>
<thead>
<tr>
<th>Object</th>
<th>starALCAPSerVpnID</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>8164.1.66.1.1.1</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The internal identification of the VPN (context)</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Gauge32</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>not-accessible</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starALCAPSerSvcID</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>8164.1.66.1.1.2</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The internal identification of this service; unique within a specific context.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Gauge32</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>not-accessible</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starSessALCAPVpnName</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>8164.1.66.1.1.3</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The name of this VPN (context).</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>DisplayString</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>read-only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starSessALCAPServName</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>8164.1.66.1.1.4</td>
</tr>
</tbody>
</table>
Description
The name of this Service.

Syntax
DisplayString

Access
read-only

Object
starSessALCAPAAL2NodeName

Object ID
8164.1.66.1.1.5

Description
The name of the AAL2 Node.

Syntax
DisplayString

Access
read-only

Object
starSessALCAPPathId

Object ID
8164.1.66.1.1.6

Description
The path id of AAL2 path.

Syntax
Integer32

Access
read-only

text

enterprise.8164.1.starentMMES1Assoc(67)

Object
starMMES1AssocTable

Object ID
8164.1.67.1

Description
A table of MME S1 Associations.
Syntax
SEQUENCE OF StarMMES1AssocEntry

Access
not-accessible

Object
starMMES1AssocEntry

Object ID
8164.1.67.1.1

Description
Information about a particular MME S1 Association.

Syntax
StarMMES1AssocEntry

Access
not-accessible

Object
starMMES1AssocSvcID

Object ID
8164.1.67.1.1.1

Description
The service identification is made up from the first 8 characters of the VPN name and the first 16 characters of the service name seperated by (:).

Syntax
StarMediumID

Access
not-accessible

Object
starMMES1AssocENBID

Object ID
8164.1.67.1.1.2

Description
The identification of the eNodeB.

Syntax
StarENBID
access for notify

Object
starMMES1AssocVpnName

Object ID
8164.1.66.1.1.3

Description
The name of this VPN (context).

Syntax
DisplayString

Access
read-only

Object
starMMES1AssocServName

Object ID
8164.1.66.1.1.4

Description
The name of this MME Service.

Syntax
DisplayString

Access
read-only

enterprise.8164.1.starentMMES1Path(70)

Object
starMMES1PathTable

Object ID
8164.1.70.1

Description
A table of MME S1 Path.

Syntax
SEQUENCE OF StarMMES1PathEntry

Access
not-accessible
Object
starMMES1PathEntry

Object ID
8164.1.70.1.1

Description
Information about a particular MME S1 Path.

Syntax
StarMMES1PathEntry

Access
not-accessible

Sequence
starMMES1PathSvcID StarMediumID
starMMES1PathENBID StarENBID
starMMES1PathVpnName DisplayString
starMMES1PathServName DisplayString
starMMES1PathSelfAddr IpAddress
starMMES1PathSelfPort Gauge32
starMMES1PathPeerAddr IpAddress
starMMES1PathPeerPort Gauge32

Object
starMMES1PathSvcID

Object ID
8164.1.70.1.1.1

Description
The service identification is made up from the first 8 characters of the VPN name and the first 16 characters of the service name seperated by (:).

Syntax
StarMediumID

Access
not-accessible

Object
starMMES1PathENBID

Object ID
8164.1.70.1.1.2
Description
The identification of the eNodeB.

Syntax
StarENBID

Access
accessible-for-notify

Object
starMMES1PathVpnName

Object ID
8164.1.70.1.1.3

Description
The name of this VPN (context).

Syntax
DisplayString

Access
Read-only

Object
starMMES1PathServName

Object ID
8164.1.70.1.1.4

Description
The name of this MME Service.

Syntax
DisplayString

Access
Read-only

Object
starMMES1PathSelfAddr

Object ID
8164.1.70.1.1.5

Description
Interface IP Address.

Syntax
IpAddress
### Starent Chassis Objects

**Access**
Read-only

**Object**
starMMES1PathSelfPort

**Object ID**
8164.1.70.1.1.6

**Description**
Self port number.

**Syntax**
Gauge32

**Access**
Read-only

**Object**
starMMES1PathPeerAddr

**Object ID**
8164.1.70.1.1.7

**Description**
Interface IP Address.

**Syntax**
IpAddress

**Access**
Read-only

**Object**
starMMES1PathPeerPort

**Object ID**
8164.1.70.1.1.8

**Description**
Peer port number.

**Syntax**
Gauge32

**Access**
Read-only
Chapter 2
Starent Chassis Traps

This chapter describes the traps for the system.
MIB Textual Conventions

The following are the starOS traps. Information on standards-based traps can be found here: Standards-Based Traps.

enterprise.8164.starentTraps(2)

Object

starCardTempOverheat

Object ID
enterprise.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 that 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 the 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
enterprise.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*

**Important:** This trap is obsolete.

**Object ID**

enterprise.8164.2.3

**Description**

A reset operation has been invoked on the card.

**Objects**

*starSlotNum*
*starCardType*

**Object**

*starCardRebootRequest*

**Object ID**

enterprise.8164.2.4

**Description**

A reboot operation has been invoked on this card by an administrator. If successful, a subsequent starCardDown 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**

enterprise.8164.2.5

**Description**

The card is up (operational).

**Objects**

*starSlotNum*
*starCardType*

**Object**

*starCardVoltageFailure*
Object ID
enterprise.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
enterprise.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
enterprise.8164.2.8

Description
A card has been inserted into the chassis.

Objects
starSlotNum
starCardType

Object
starCardBootFailed
**Object ID**
enterprise.8164.2.9

**Description**
A card has failed to start 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**
enterprise.8164.2.10

**Important:** This trap is obsolete.

**Description**
The card has failed and is no longer operational.

**Objects**
- starSlotNum
- starCardType

**Object**
- starCardSWFailed

**Important:** This trap is obsolete.

**Object ID**
enterprise.8164.2.11

**Description**
An unrecoverable software error has occurred on the card.

**Objects**
- starSlotNum

**Object**
- starCardRCCFailed

**Object ID**
enterprise.8164.2.12
**Important:** This trap is obsolete.

**Description**
The RCC has failed.

**Probable Cause:** A hardware failure on the redundancy crossbar card.

**Objects**
- starSlotNum

**Object ID**
enterprise.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 is issued to confirm that this condition has been cleared.

**Objects**
- starSlotNum
- starCardType

**Object**
- starCardFailureLEDOn

**Important:** This trap is obsolete.

**Object ID**
enterprise.8164.2.14

**Description**
The failure LED is illuminated on the card.

**Objects**
- starSlotNum
- starCardType

**Object**
- starCardFailureLEDOff

**Important:** This trap is obsolete.
Object ID
enterprise.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.

Objects
starSlotNum
starCardType

Object
starCardPACMigrateStart

Important: This trap is obsolete.

Object ID
enterprise.8164.2.16

Description
A packet processing card migration operation has begun. The first varbind identifies the packet processing card being migrated away from; the second varbind identifies the card 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 notification is generated when the migration is complete.

Objects
starSlotNum
starSlotNum

Object
starCardPACMigrateComplete

Important: This trap is obsolete.

Object ID
enterprise.8164.2.17

Description
A packet processing card migration operation has successfully completed. The first varbind identifies the card that was migrated away from; the second varbind identifies the card that was migrated to.

Objects
starSlotNum
starSlotNum

Object
starCardPACMigrateFailed

**Important:**

**Object ID**
enterprise.8164.2.18

**Description**
A packet processing card migration operation has failed. The first varbind identifies the card that was attempted to be migrated away from; the second varbind identifies the card that was being migrated to.

**Probable Cause:** The packet processing card 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 packet processing card involved in the migration operation.

**Clear Condition:** The packet processing card in question will be reset; a starCardUp notification will be generated when the card is operational again.

**Objects**

<table>
<thead>
<tr>
<th>starSlotNum</th>
</tr>
</thead>
<tbody>
<tr>
<td>starSlotNum</td>
</tr>
</tbody>
</table>

starCardSPCSwitchoverStart

**Important:** starCardSPCSwitchoverStart

**Object ID**
enterprise.8164.2.19

**Description**
A chassis management card switchover operation has begun. The first varbind identifies the chassis management card being switched away from; the second varbind identifies the card being switched to. Note that since a 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; it can also represent the system recovering from a software or hardware fault.

**Action to be Taken:** If the chassis management card 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 switchover completes successfully.

**Clear Condition Alarm:** A starCardSPCSwitchoverComplete is generated when the switchover operation has completed.

**Objects**

<table>
<thead>
<tr>
<th>starSlotNum</th>
</tr>
</thead>
<tbody>
<tr>
<td>starSlotNum</td>
</tr>
</tbody>
</table>
starCardSPCSwitchoverComplete

**Important:** This trap is obsolete.

**Object ID**
enterprise.8164.2.20

**Description**
A chassis management card switchover has completed successfully. The starSlotNum varbind identifies the new primary chassis management card.

**Action to be Taken:** If the witchover 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

---

starCardSPCSwitchoverFailed

**Important:** This trap is obsolete.

**Object ID**
enterprise.8164.2.21

**Description**
A chassis management card switchover operation has failed. The first varbind identifies the chassis management card that was attempted to be switched away from; the second varbind identifies the card that was attempted to be switched to.

**Probable Cause:** The chassis management card 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 chassis management card.

**Action to be Taken:** Verify that both chassis management cards 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 chassis management card in question will be reset; a starCardUp notification will be generated when the card is operational again.

**Objects**
starSlotNum
starSlotNum

---

starFanFailed

**Object ID**
enterprise.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 or 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

Object
starFanRemoved

Object ID
enterprise.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
enterprise.8164.2.24

Description
A fan tray has been inserted.

Objects
starFanNum

Object
starLogThreshold

Important: This trap is obsolete.

Object ID
enterprise.8164.2.25

Description
A system log has reached its maximum size.
## Starent Chassis Traps

**MIB Textual Convention**

### Cisco ASR 5x00 Series SNMP MIB Reference

<table>
<thead>
<tr>
<th>Object</th>
<th>starLogName</th>
</tr>
</thead>
<tbody>
<tr>
<td>starLogCurSize</td>
<td></td>
</tr>
<tr>
<td>starLogMaxSize</td>
<td></td>
</tr>
</tbody>
</table>

**Object**

starCPUBusy

### Object ID

enterprise.8164.2.26

### Description

The CPU is experiencing very high usage.

**Probable Cause:** For chassis management card CPUs this typically represents an abnormal amount of management (CLI, SNMP, CORBA) requests. For packet processing cards, this indicates that the system is reaching its capacity.

**Action to be Taken:** For chassis management 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 packet processing cards, this indicates the system is nearing its overall capacity. Monitor CPU usage and if it is persistently high, the system may need additional hardware 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.

<table>
<thead>
<tr>
<th>Object</th>
<th>starCPUSlot</th>
</tr>
</thead>
<tbody>
<tr>
<td>starCPUNumberFormatException</td>
<td></td>
</tr>
</tbody>
</table>

### Object ID

enterprise.8164.2.27

### Description

The CPU is experiencing a low memory condition.

**Probable Cause:** For chassis management card CPUs this typically represents an abnormal number of management sessions, in particular CLI sessions. For packet processing cards this indicates that the system is reaching its capacity.

**Action to be Taken:** For chassis management 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 packet processing cards, this indicated the system is nearing its overall capacity. Monitor memory usage and if it is persistently high, the system may need additional packet processing cards or additional card memory to keep up with the system load.

**Clear Condition:** Verify that memory usage has 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
   enterprise.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
   enterprise.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
   enterprise.8164.2.30

Description
   The watchdog 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 a chassis management card switchover or packet processing card migration completes successfully to recover from the failure condition.

**Condition Clear Alarm:** A starCardUp notification will be generated if the card is restored to an operational state.

**Objects**

- starCPUSlot
- starCPUNumber
- starNPUARPPoolExhausted

**Object ID**

enterprise.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

**Important:** This trap is obsolete.

**Object ID**

enterprise.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 notification will be generated when the power filter is replaced.

**Objects**

- starPowerNumber

**Object**

- starPowerFilterUnitUnavail
Object ID
enterprise.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
enterprise.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
enterprise.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: When the rate of SNMP notifications goes down, a starAlertsEnabled notification is generated.

Objects
starMaxAlertsPerTime
starWindowTime

Object

starAlertsEnabled

Object ID
testprise.8164.2.38

Description
The sending of SNMP Traps has been re-enabled.

starAAAAuthServerUnreachable

Object ID
enterprise.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 being down, a starAAAAuthServerUnreachable notification is generated. When the server state changes to Active, a starAAAAuthServerReachable notification is generated. This behavior is the same when there is only one RADIUS server configured.

Objects
radiusAuthServerIndex
radiusAuthServerAddress

Object

starAAAAuthServerReachable

Object ID
testprise.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

enterprise.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

radiusAccServerIndex
radiusAccServerAddress

Object

starAAAAccServerUnreachable

Object ID

enterprise.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 being down, a starAAAAccServerUnreachable notification is generated. When the server state changes to Active, a starAAAAccServerReachable is generated. This behavior is the same when there is only one RADIUS server configured.

Objects

radiusAccServerIndex
radiusAccServerAddress
### starAAAAccServerReachable

**Object ID**
enterprise.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 chassis 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

### starAAAAccServerMisconfigured

**Object ID**
enterprise.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

### starLogMsg

**Object ID**
enterprise.8164.2.45

**Description**
A log message. This trap is used only for debugging.

**Objects**
- starLogText
Object
starPDSNServiceStart

Object ID
enterprise.8164.2.46

Description
A PDSN service has started.

Action to be Taken: No action required.

Objects
starServiceVpnName
starServiceServName

Object
starPDSNServiceStop

Object ID
enterprise.8164.2.47

Description
A PDSN service has stopped.

Probable Cause: This is typically caused by operator intervention. In unusual cases it can be caused by the loss of hardware resources (packet processing cards) 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 packet processing cards 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
enterprise.8164.2.48

Description
An HA service has started.

Action to be Taken: No action required.

Objects
starServiceVpnName
starServiceServName
Object

starHAServiceStop

Object ID
enterprise.8164.2.49

Description
An HA service has stopped.

**Probable Cause:** This is typically caused by operator intervention. In unusual cases it can be caused by the loss of resources (packet processing cards) 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 packet processing cards 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
enterprise.8164.2.50

Description
An FA service has started.

**Action to be Taken:** No action required.

Objects

starServiceVpnName
starServiceServName

Object

starFAServiceStop

Object ID
enterprise.8164.2.51

Description
An FA service has stopped.

**Probable Cause:** This is typically caused by operator intervention. In unusual cases it can be caused by the loss of hardware resources (packet processing cards) 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 packet processing cards 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**
enterprise.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**
enterprise.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**
enterprise.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 a chassis management card switchover or card migration completes to recover from this condition.

**Condition Clear Alarm:** A starCardUp notification will be generated when the card restarts.

**Objects**

- starTaskFacilityName
- starTaskInstance
- starTaskCard
- starTaskCPU

**Object**

- starCardActive

**Object ID**

enterprise.8164.2.55

**Description**

The card is now active.

**Objects**

- starSlotNum
- starCardType

**Object**

- starLACServiceStart

**Object ID**

enterprise.8164.2.56

**Description**

A LAC service has started.

**Action to be Taken:** No action required.

**Objects**

- starServiceVpnName
- starServiceServName

**Object**

- starLACServiceStop

**Object ID**

enterprise.8164.2.57

**Description**

A LAC service has stopped.
**Probable Cause:** This is typically caused by operator intervention. In unusual cases it can be caused by the loss of hardware resources (packet processing cards) 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 packet processing cards 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 restarts.

**Objects**
- starServiceVpnName
- starServiceServName

**Object**
- starLNSServiceStart

**Object ID**
enterprise.8164.2.58

**Description**
A LNS service has started.

**Action to be Taken:** No action required.

**Objects**
- starServiceVpnName
- starServiceServName

**Object**
- starLNSServiceStop

**Object ID**
enterprise.8164.2.59

**Description**
A LNS service has stopped.

**Probable Cause:** This is typically caused by operator intervention. In rare cases it can be caused by the loss of hardware resources 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 packet processing cards 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 restarts.
starCardDown

Object ID
enterprise.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 a chassis management card 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

starDsx3LineStatusChange

Object ID
enterprise.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 a 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

starDsx1LineStatusChange

Object ID
enterprise.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 a 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
  enterprise.8164.2.63

Description
  A GGSN Service has started.

Action to be Taken:
  No action required.

Objects
  starServiceVpnName
  starServiceServName

Object
  starGGSNServiceStop

Object ID
  enterprise.8164.2.64

Description
  A GGSN Service has stopped.

Probable Cause:
  This is typically caused by operator intervention. In unusual cases it can be caused by the loss of hardware resources (packet processing cards) 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 packet processing cards 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 restarts.

Objects
  starServiceVpnName
  starServiceServName

Object
  starLicenseExceeded

Object ID
  enterprise.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:
  System usage 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**
enterprise.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**
enterprise.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 packet processing cards/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 processing cards or memory may be required. Note that there is a configuration threshold which can be setup to monitor the number of NORESOURCE rejects.

**Objects**
- starServiceType
- starServiceVpnName
Object

starLongDurTimerExpiry

Object ID
enterprise.8164.2.68

Description
context subscriber name MSID timer duration timeout action setup time home address(ipv4/ipv6)

**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
enterprise.8164.2.69

Description
Closed RP Service has started.

**Action to be Taken:** No action required.

Objects
starServiceVpnName
starServiceServName

Object

starClosedRPServiceStop

Object ID
enterprise.8164.2.70

Description
Closed RP Service has stopped.

**Probable Cause:** This is typically caused by operator intervention. In unusual cases it can be caused by the loss of hardware resources (packet processing cards) 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 packet processing cards 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 restarts.

**Objects**
- starServiceVpnName
- starServiceServName

**Object**
- starGtpcPathFailure

**Object ID**
enterprise.8164.2.71

**Description**
GTP Control Path Failure.

**Objects**
- starSessGGSNVpnName
- starSessGGSNServName
- starSessGGSNPeerAddr

**Object**
- starGtpuPathFailure

**Object ID**
enterprise.8164.2.72

**Description**
GTP Data Path Failure.

**Objects**
- starSessGGSNVpnName
- starSessGGSNServName
- starSessGGSNPeerAddr

**Object**
- starManagerFailure

**Object ID**
enterprise.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**
enterprise.8164.2.74

**Description**
EIS Server alive.

**Objects**
- starEISServerVPNName
- starEISServerAddr

**Object**
- starEISServerDead

**Object ID**
enterprise.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**
- starEISServerVPNName
- starEISServerAddr

**Object**
- starCgfAlive

**Object ID**
enterprise.8164.2.76

**Description**
GTPP CGF Server is alive.

**Objects**
- starSessGGSNVpnName
starSessGGSNPeerPort
starSessGGSNPeerAddr

Object
star_cfg_dead

Object ID
enterprise.8164.2.77

Description
GTPP CGF Server is 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, or verify network connectivity to the CGF server.

**Clear Condition:** This condition is cleared when the CGF server becomes reachable.

**Condition Clear Alarm:** A star_cfg_server_alive notification will be generated when this condition is cleared.

Objects
starSessGGSNVpnName
starSessGGSNPeerPort
starSessGGSNPeerAddr

Object
star_storage_server_alive

Object ID
enterprise.8164.2.78

Description
GTPP Storage Server is alive.

Objects
starSessGGSNVpnName
starSessGGSNPeerAddr

Object
star_storage_server_dead

Object ID
enterprise.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, or 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
enterprise.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
enterprise.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 condition 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.
Objects
  starServiceType
  starCongestionPolicy
  starCongestionResourceType

Object
  starCongestionClear

Object ID
enterprise.8164.2.82

Description
A congestion condition has cleared.

Objects
  starServiceType

Object
  starServiceLossPTACs

Object ID
enterprise.8164.2.83

Description
A service loss condition has occurred due to packet processing card failure or removal.

Probable Cause: Multiple packet processing cards are no longer available due to failure, removal, or other operator action; or, configuration changes have been made which eliminated the availability of redundant cards.

Action to be Taken: Bring additional packet processing cards online to match the number of configured cards, or update the configuration to require fewer active cards.

Clear Condition: This condition is cleared when the number of active packet processing cards reaches or exceeds the configured number.

Objects
  starCardMode
  starPTACConfig
  starPTACActive

Object
  starServiceLossLC

Object ID
enterprise.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**
- `enterprise.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**
- `enterprise.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**
- `enterprise.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, and verify network connectivity.

Clear Condition: The condition is cleared when the PCF address becomes reachable, or if the configuration is changed to not use this server.

Condition Clear Alarm: A starPCFReachable notification is generated when the pcf address becomes reachable.

Objects
starContextName
starPCFAddress

Object
starDhcpAlive

Object ID
enterprise.8164.2.88

Description
DHCP server alive.

Objects
starSessGGSNVpnName
starSessGGSNPeerPort
starSessGGSNPeerAddr

Object
starDhcpDead

Object ID
enterprise.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 changed 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
enterprise.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: 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
enterprise.8164.2.91

Description
NTP synchronization lost.

Probable Cause: All configured NTP servers are no longer available, or some/all NTP servers have been un-configured by an operator.

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
enterprise.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

enterprise.8164.2.93

Description

The card is now in standby mode.

Objects

- starSlotNum
- starCardType

Object

- starLicenseUnderLimit

Object ID

enterprise.8164.2.94

Description

Usage is now under the licensed session limit.

Objects

- starLicensedSessions
- starCurrentSessions
- starServiceType

Object

- starIPSECPriTunDown

Object ID

enterprise.8164.2.95

Description

IPSEC primary tunnel is down.

Objects

- starIPSECCContextName
starIPSECGroupName
starIPSECTunLocalIPAddr
starIPSECTunRemoteIPAddr

Object
starIPSECgriTunUp

Object ID
enterprise.8164.2.96

Description
IPSEC primary tunnel is up

Objects
starIPSEContexName
starIPSECGroupName
starIPSECTunLocalIPAddr
starIPSECTunRemoteIPAddr

Object
starIPSECgriTunDown

Object ID
enterprise.8164.2.97

Description
IPSEC secondary tunnel down

Objects
starIPSEContexName
starIPSECGroupName
starIPSECTunLocalIPAddr
starIPSECTunRemoteIPAddr

Object
starIPSECgriTunUp

Object ID
enterprise.8164.2.98

Description
IPSEC secondary tunnel is up

Objects
starIPSEContexName
starIPSECGroupName
starIPSECTunLocalIPAddr
starIPSECTunRemoteIPAddr

**Object**

starIPSECTunSwitchFail

**Object ID**
enterprise.8164.2.99

**Description**
IPSEC tunnel switchover failed or unable to be attempted.

**Objects**
starIPSECContextName
starIPSECGroupName

starIPSECTunSwitchComplete

**Object ID**
enterprise.8164.2.100

**Description**
IPSEC tunnel switchover complete

**Objects**
starIPSECContextName
starIPSECGroupName
starIPSECTunLocalIPAddr
starIPSECTunRemoteIPAddr

starNwReachServerAlive

**Object ID**
enterprise.8164.2.101

**Description**
Nw reachable server alive

**Objects**
starNwReachName
starNwReachSrvrAddr

starNwReachServerDead

**Object ID**
enterprise.8164.2.102
Description
Nw Reachable Server is 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**
enterprise.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**
enterprise.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
enterprise.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
enterprise.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
enterprise.8164.2.107

Description
A SIP service has started.
Action to be Taken: No action required.

Objects
starServiceVpnName
starServiceServName

Object
starSIPServicestop

Object ID
enterprise.8164.2.108

Description
A SIP service has stopped.
Action to be Taken: No action required.
Objects

starServiceVpnName
starServiceServName

Object

starVIMServiceStart

Object ID
enterprise.8164.2.109

Description
A VIM service has started.

Action to be Taken: No action required.

Syntax

starServiceVpnName
starServiceServName

Object

starVIMServiceStop

Object ID
enterprise.8164.2.110

Description
A VIM service has stopped. This is because an application is out-of-service, or vim is down, or there is no app. server.

Action to be Taken: No action required.

Objects

starServiceVpnName
starServiceServName

Object

starCHATCONFServiceStart

Object ID
enterprise.8164.2.111

Description
A CHAT/CONF service has started.

Action to be Taken: No action required.

Objects

starServiceVpnName
starServiceServName

Object

starCHATCONFServiceStop
Object ID
enterprise.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 ID
enterprise.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
enterprise.8164.2.114

Description
An 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
enterprise.8164.2.115

Description
An operator has begun to upgrade the software on the chassis.

Object
starSWUpgradeComplete

Object ID
enterprise.8164.2.116

Description
An operator-initiated software upgrade has been completed.

Object
starSWUpgradeAborted

Object ID
enterprise.8164.2.117

Description
An operator-initiated software upgrade has been aborted.

Object
starBGPPeerSessionUp

Object ID
enterprise.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 starBGPPeerSessionDown event.

Action to be Taken: No action required.

Objects
starContextName
starBGPPeerIPAddress

Object
starBGPPeerSessionDown

Object ID
enterprise.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 chassis and the BGP peer is experiencing an outage; or LC failure(s) on the chassis.

Action to be Taken: Verify the BGP peer is operational; verify network connectivity to the BGP peer.

Clear Condition Alarm: A starBGPPeerSessionUp notification is generated when connectivity is reestablished.

Objects

| starContextName                           |
| starBGPPeerIPAddress                     |

Object

| starSRPActive                           |

Object ID

enterprise.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

enterprise.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

enterprise.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

enterprise.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

enterprise.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 starSRPAAAUUnreachable 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

starSRPAAAUUnreachable
Object ID
enterprise.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
enterprise.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
enterprise.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
enterprise.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 a configuration.

Condition Clear Alarm: This condition is cleared by a starSRPConfigInSync notification.

Objects
starContextName
starSRPIPAddress

Object
starSRPConfigInSync

Object ID
enterprise.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
enterprise.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
enterprise.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**
enterprise.8164.2.132

Description
SIP session has failed since the route server is unavailable.

**Action to be Taken:** Operator has to check the reason for the unavailability of the server and act accordingly.

**Objects**
- starSIPRouteServerVpnName
- starSIPRouteServerVmgName
- starSIPRouteServerAsName
- starSIPRouteServerIpAddr

**Object**
- starFMDMaxCallRateReached

**Object ID**
enterprise.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
enterprise.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
enterprise.8164.2.135

Description
GTPP Storage Server is experiencing high CPU usage. The usage has exceeded an operator-configure value. Note that this is an external server.

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
enterprise.8164.2.136

Description
GTPP Storage Server CPU usage has returned to a normal range. Note that this is an external server.

Objects
starSessGGSNVpnName
starSessGGSNPeerAddr
starThreshPct
starThreshMeasuredPct
starGSSClusterName
starGSSClusterNodeName

Object

starStorageServerDiskSpaceLow

Object ID
enterprise.8164.2.137

Description
GTPP Storage Server is experiencing low available disk space. The available disk space has gone below an operator-configure value. Note that this is an external server.

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
cstarThreshGB
starThreshMeasuredGB
starGSSClusterName
starGSSClusterNodeName

Object

starStorageServerDiskSpaceOK

Object ID
enterprise.8164.2.138

Description
Available disk space for GTPP Storage Server is now in a normal range. Note that this is an external server.

Objects
starSessGGSNVpnName
starSessGGSNPeerAddr
starThreshPct
starThreshMeasuredPct
starGSSClusterName
starGSSClusterNodeName
Object
    starCardSPOFAlarm

Object ID
    enterprise.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 if a redundant card becomes available. Notifications like starCardDown could also obsolete this notification.

Objects
    starSlotNum
    starCardType

Object
    starCardSPOFClear

Object ID
    enterprise.8164.2.140

Description
    The identified card is no longer a Single Point of Failure (SPOF).

Objects
    starSlotNum
    starCardType

Object
    starStorageServerOldGcdrPending

Object ID
    enterprise.8164.2.141

Description
    GCDR files on the storage server have been unprocessed since the configured threshold value of time period. Note that this is an external server.

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
<table>
<thead>
<tr>
<th>Object</th>
<th>starSessGGSNPeerAddr</th>
</tr>
</thead>
<tbody>
<tr>
<td>starThreshInt</td>
<td></td>
</tr>
<tr>
<td>starThreshMeasuredInt</td>
<td></td>
</tr>
<tr>
<td>starGSSClusterName</td>
<td></td>
</tr>
<tr>
<td>starGSSClusterNodeName</td>
<td></td>
</tr>
<tr>
<td>starStorageServerOldGcdrCleared</td>
<td></td>
</tr>
<tr>
<td>Object ID</td>
<td>enterprise.8164.2.142</td>
</tr>
<tr>
<td>Description</td>
<td>GCDR files on the storage server have been processed and the threshold condition is now clear.</td>
</tr>
<tr>
<td>Objects</td>
<td>starSessGGSNVpnName</td>
</tr>
<tr>
<td>starSessGGSNPeerAddr</td>
<td></td>
</tr>
<tr>
<td>starThreshInt</td>
<td></td>
</tr>
<tr>
<td>starGSSClusterName</td>
<td></td>
</tr>
<tr>
<td>starGSSClusterNodeName</td>
<td></td>
</tr>
<tr>
<td>starLoginFailure</td>
<td></td>
</tr>
<tr>
<td>Object ID</td>
<td>enterprise.8164.2.143</td>
</tr>
<tr>
<td>Description</td>
<td>A login failure occurred attempting to establish a CLI or FTP session.</td>
</tr>
<tr>
<td>Objects</td>
<td>starCLITtyname</td>
</tr>
<tr>
<td>starCLIType</td>
<td></td>
</tr>
<tr>
<td>starCLIRemoteIpAddr</td>
<td></td>
</tr>
<tr>
<td>starCLIRemoteIpAddrType</td>
<td></td>
</tr>
<tr>
<td>starIPSGServiceStart</td>
<td></td>
</tr>
<tr>
<td>Object ID</td>
<td>enterprise.8164.2.144</td>
</tr>
<tr>
<td>Description</td>
<td>A IP Services Gateway (IPSG) service has started.</td>
</tr>
</tbody>
</table>
starServiceVpnName
starServiceServName

Object
starIPSGServiceStop

Object ID
enterprise.8164.2.145

Description
A IP Services Gateway (IPSG) service has stopped.

Probable Cause: This is typically caused by operator intervention. In unusual cases it can be caused by the loss of hardware resources (packet processing cards) 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 packet processing cards 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.

starServiceVpnName
starServiceServName

Object
starHAUnreachable

Object ID
enterprise.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.

starServiceVPNName
starServiceServName
starServiceFAIpAddr
starServiceHAIpAddr

Object
starHAReachable

Object ID
enterprise.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
enterprise.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
enterprise.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 hardware resources (packet processing cards) 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 packet processing cards are present and running in the system. Check the crash logs for an indication of a software failure.

Condition Clear Alarm: A starASNGWServiceStart notification will be generated when the service is restarted.

Objects
starServiceVpnName
starServiceServName

Object
starTaskFailed
Object ID
enterprise.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 ID
enterprise.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 ID
enterprise.8164.2.152

Description
A CSCF Service has started.

Action to be Taken: No action required.

Objects
starServiceVpnName
starServiceServName
Object
starCSCFSERVICESTOP

Object ID
enterprise.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 hardware resources 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 packet processing cards 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
enterprise.8164.2.154

Description
A DHCP Service has started.

Action to be Taken: No action required.

Objects
starSessGGSNVpnName
starSessGGSNPeerPort
starSessGGSNPeerAddr

Object
starDHCPSERVICESTOPPED

Object ID
enterprise.8164.2.155

Description
A DHCP Service has stopped.

Probable Cause: This is typically caused by operator intervention. In unusual cases it can be caused by the loss of hardware resources 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 packet processing cards 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 ID**
enterprise.8164.2.156

**Description**
The Content Filtering OPTCMDB file error displayed with an error code.

**Action to be Taken**: If no OPTCMDB file is found in the specified directory, then place an OPTCMDB-FULL file in the directory and give an upgrade command. If the error is related to a 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 ID**
enterprise.8164.2.157

**Description**
The Content Filtering OPTCMDB file error was removed.

**Action to be Taken**: No action required.

**Objects**
- starContFiltCFFilename
- starContFiltCFErrorCode

**Object ID**
enterprise.8164.2.158
Description
The Blacklisting OPTBLDB file error displayed with an error code.

**Action to be Taken:** If there is no or there is an invalid OPTBLDB file 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**
enterprise.8164.2.159

**Description**
The Blacklisting OPTBLDB file error removed

**Objects**
- starBLFilename
- starBLErrorCode
- **Object**
  - starContFiltDBUpgradeError

**Object ID**
enterprise.8164.2.160

**Description**
The Content Filtering OPTCMDB file error displayed with an error code.

**Action to be Taken:** Place a valid OPTCMDB-FULL file or OPTCMDB_INCR file in the directory and give an upgrade command.

**Condition Clear Alarm:** This condition is cleared by a starContFiltDBUpgradeErrorClear notification.

**Objects**
- starContFiltCFUpgradeFilename
- starContFiltCFUpgradeErrorCode
- **Object**
  - starContFiltDBUpgradeErrorClear

**Object ID**
enterprise.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
enterprise.8164.2.162

Description
The Blacklisting OPTBLDB file error displayed with an error code.

Action to be Taken: No action required

Condition Clear Alarm: This condition is cleared by a starBLDBUpgradeErrorClear notification.

Objects

starBLUpgradeFilename
starBLUpgradeErrorCode

Object
starBLDBUpgradeErrorClear

Object ID
enterprise.8164.2.163

Description
The Blacklisting OPTBLDB file error is removed.

Action to be Taken: No action required.

Objects

starBLUpgradeFilename
starBLUpgradeErrorCode

Object
starIPSECDynTunUp

Object ID
enterprise.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**
enterprise.8164.2.165

**Description**
IPSEC dynamic tunnel down.

**Objects**
starIPSECContextName
starIPSECPolicyName
starIPSECDynPolicyType
starIPSECDynPolicyPayloadType
starIPSECLocalGateway
starIPSECRemoteGateway

**Object**

starHeartbeat

**Object ID**
enterprise.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.

**Object**

starOverloadSystem

**Object ID**
enterprise.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 from, 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 seen 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.

**Objects**

starCongestionResourceType

Object

starOverloadSystemClear

Object ID

enterprise.8164.2.168

Description

A system-wide congestion overload condition has cleared

Object

starOverloadService

Object ID

enterprise.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.

**Action to be Taken:** Verify that the congestion overload thresholds are correct; if the congested state is seen 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
enterprise.8164.2.170

Description
A service-specific congestion overload condition has cleared

Objects
starServiceVpnName
starServiceServName

Object
starStorageServerClusterStateChange

Object ID
enterprise.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. Note that this is an external server.

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
enterprise.8164.2.172

Description
GTPP Storage Server switchover from current online node to next available node in cluster. Note that this is an external server.

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
enterprise.8164.2.173

Description
GTPP Storage Server cluster disk path failure has been occurred. Note that this is an external server.

Probable Cause: Fiber-optic cable may have been damaged or 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
enterprise.8164.2.174

Description
GTPP Storage Server cluster disk path failure has been restored. Note that this is an external server.

Objects
starSessGGSNVpnName
starSessGGSNPeerAddr
starGSSDiskPath
starGSSClusterName
starGSSClusterNodeName

Object

starStorageServerClusInterCFail

Object ID
enterprise.8164.2.175
Description
GTPP Storage Server cluster transport path (Interconnect) failure observed. Note that this is an external server.

**Probable Cause:** Interconnect interface may have been failed, or 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**
enterprise.8164.2.176

Description
GTPP Storage Server cluster transport path (Interconnect) failure has been restored to an operational state. Note that this is an external server.

**Objects**
- starSessGGSNVpnName
- starSessGGSNPeerAddr
- starGSSTransportPath
- starGSSClusterName
- starGSSClusterNodeName

**Object**
- starStorageServerClusIntfFail

**Object ID**
enterprise.8164.2.177

Description
GTPP Storage Server cluster disk path failure has occurred. Note that this is an external server.

**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
enterprise.8164.2.178

Description
GTPP Storage Server cluster GE Interface has been restored.

Objects
starSessGGSNVpnName
starSessGGSNPeerAddr
starGSSIPMPGroupName
starGSSInterfaceName
starGSSClusterName
starGSSClusterNodeName

Object

starStorageServerMemLow

Object ID
enterprise.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
enterprise.8164.2.180
Description
GTPP Storage Server Memory usage has returned to a normal range. Note that this is an external server.

Objects
starSessGGSNVpnName
starSessGGSNPeerAddr
starThreshMB
starThreshMeasuredMB
starGSSClusterName
starGSSClusterNodeName

Object
starPDIFServiceStart

Object ID
enterprise.8164.2.181

Description
A PDIF Service has started.

Action to be Taken: No action required.

Objects
starServiceVpnName
starServiceServName

Object
starPDIFServiceStop

Object ID
enterprise.8164.2.182

Description
A PDIF Service has stopped.

Probable Cause: This is typically caused by operator intervention. In rare cases it can be caused by the loss of resources (packet processing cards) to support the running configuration.

Action to be Taken: If the shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured packet processing cards are present and running on 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
enterprise.8164.2.183

Description
A Sess Mgr Recovery Complete.

Probable Cause: This is typically caused by session manager task fails and successfully completed recovery.

Action to be Taken: No action required.

Objects
starCPUSlot
cpuNumber

starDiameterPeerDown

Object ID
enterprise.8164.2.184

Description
A Diameter peer is down.

Problem Cause: The Diameter peer has failed, or a network connectivity problem prevents reaching the peer.

Condition Clear Alarm: A starDiameterPeerUp notification will be generated when the peer is up.

Objects
starDiameterVpnName
starDiameterPeerAddr
starDiameterEndpointName

starDiameterPeerUp

Object ID
enterprise.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

starDiameterServerUnreachable
Object ID
enterprise.8164.2.186

Description
A Diameter server is down.

Problem Cause: The Diameter server has failed, or a network connectivity issue 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
enterprise.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
enterprise.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
enterprise.8164.2.189

Description
A peer server is reachable

Objects
starServiceVPNName
starServiceServName
starServicePeerServerName

Object
starCSCFPeerServerUnreachable

Object ID
enterprise.8164.2.190

Description
A peer server is reachable

Objects
starServiceVPNName
starServiceServName
starServicePeerServerName

Object
starCLIConfigMode

Object ID
enterprise.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
enterprise.8164.2.194

Description
A SGSN Service has started.
Starent Chassis Traps

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Objects

starServiceVpnName
starServiceServName

Object

starSGSNServiceStop

Object ID
enterprise.8164.2.195

Description
A SGSN Service has stopped.

Probable Cause: This is typically caused by operator intervention. In unusual cases it can be caused by the loss of hardware resources 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 packet processing cards 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
enterprise.8164.2.196

Description
M3UA route to the point code becomes unavailable.

Probable Cause: Received destination unavailable (DUNA) message, or SCTP association is down, or remote peer server is down.

Action to be taken: Verify that the peer server is up.

Condition Clear Alarm: A starM3UAPCAvailable notification will be generated when the remote peer identified by the point code becomes reachable.

Objects

starSS7rdId
starSS7Pc
starSS7M3UAPsId
starSS7CauseString

Object

starM3UAPCAvailable
Object ID
enterprise.8164.2.197

Description
M3UA route to the point code becomes available.

Probable Cause: Received a destination available (DAVA) message. SCTP Association is up. Remote peer server is up.

A starM3UAPCAvailable message is generated only after a starM3UAPCUnavailable message was generated.

Objects
starSS7M3UAPsId
starSS7Pc
starSS7rdId
starSS7CauseString

Object
starThreshCPUUtilization

Object ID
enterprise.8164.2.200

Description
The overall CPU utilization for the identified processor has exceeded its 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
enterprise.8164.2.201

Description
The threshold condition is now clear.

Objects
starCPUSlot
starCPUNumber
starThreshPct
starThreshMeasuredPct

Object
starThreshCPUMemory

Object ID
enterprise.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
starThreshClearCPU Memory

Object ID
enterprise.8164.2.203

Description
The threshold condition is now clear.

Objects
starCPUSlot
starCPUNumber
starThreshInt
starThreshMeasuredInt

Object
starThreshLicense

Object ID
enterprise.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`

<table>
<thead>
<tr>
<th>Object</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>starThreshClearLicense</code></td>
</tr>
</tbody>
</table>

**Object ID**
enterprise.8164.2.205

**Description**
The threshold condition is now clear.

**Objects**
- `starThreshInt`
- `starThreshMeasuredInt`
- `starServiceType`

<table>
<thead>
<tr>
<th>Object</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>starThreshClearSubscriberTotal</code></td>
</tr>
</tbody>
</table>

**Object ID**
enterprise.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`

<table>
<thead>
<tr>
<th>Object</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>starThreshClearSubscriberTotal</code></td>
</tr>
</tbody>
</table>

**Object ID**
enterprise.8164.2.207

**Description**
The threshold condition is now clear.
**Objects**

- `starThreshInt`
- `starThreshMeasuredInt`

**Object**

- `starThreshSubscriberActive`

**Object ID**

- `enterprise.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**

- `enterprise.8164.2.209`

**Description**

The threshold condition is now clear.

**Objects**

- `starThreshInt`
- `starThreshMeasuredInt`

**Object**

- `starThreshPortRxUtil`

**Object ID**

- `enterprise.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
enterprise.8164.2.211

Description
The threshold condition is now clear.

Objects
starPortSlot
starPortNum
starThreshPct
starThreshMeasuredPct

Object
starThreshPortTxUtil

Object ID
enterprise.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
enterprise.8164.2.213

Description
The threshold condition is now clear.
Objects
starPortSlot
starPortNum
starThreshPct
starThreshMeasuredPct

Object
    starThreshPortHighActivity

Object ID
    enterprise.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
starThreshPct
starThreshMeasuredPct

Object
    starThreshClearPortHighActivity

Object ID
    enterprise.8164.2.215

Description
The threshold condition is now clear.

Objects
starPortSlot
starPortNum
starThreshPct
starThreshMeasuredPct

Object
    starThreshAAAAuthFail

Object ID
    enterprise.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**
`enterprise.8164.2.217`

Description
The threshold condition is now clear.

**Objects**
- `starThreshPct`
- `starThreshMeasuredPct`

**Object**

`starThreshClearAAAAuthFailRate`

**Object ID**
`enterprise.8164.2.219`

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**
`enterprise.8164.2.219`
Objects
starThreshPct
starThreshMeasuredPct

Object
starThreshAAAAcctFail

Object ID
enterprise.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
enterprise.8164.2.221

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshAAAAcctFailRate

Object ID
enterprise.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**

starThreshClearAAAcctFailRate

**Object ID**

enterprise.8164.2.223

**Description**

The threshold condition is now clear.

**Objects**

starThreshPct
starThreshMeasuredPct

starThreshClearAAARetryRate

**Object ID**

enterprise.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

starThreshClearAAARetryRate

**Object ID**

enterprise.8164.2.225

**Description**

The threshold condition is now clear.

**Objects**

starThreshPct
starThreshMeasuredPct

starThreshCallSetup
Object ID
enterprise.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
enterprise.8164.2.227

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearCallSetupFailure

Object ID
enterprise.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
enterprise.8164.2.229
**Description**
The threshold condition is now clear.

**Objects**

- starThreshInt
- starThreshMeasuredInt

**Object**

- starThreshCallRejectNoResource

**Object ID**
enterprise.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**
enterprise.8164.2.231

**Description**
The threshold condition is now clear.

**Objects**

- starThreshInt
- starThreshMeasuredInt

**Object**

- starThreshPacketsFilteredDropped

**Object ID**
enterprise.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**
`enterprise.8164.2.233`

**Description**
The threshold condition is now clear.

**Objects**
- `starThreshInt`
- `starThreshMeasuredInt`

**Object**
- `starThreshClearPacketsForwarded`

**Object ID**
`enterprise.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**
`enterprise.8164.2.235`

**Description**
The threshold condition is now clear.

**Objects**
- `starThreshInt`
starThreshMeasuredInt

**Object**
starThreshSessCPUThroughput

**Object ID**
enterprise.8164.2.236

**Description**
The total session throughput 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**
enterprise.8164.2.237

**Description**
The threshold condition is now clear.

**Objects**
starCPUSlot
starCPUNumber
starThreshMB
starThreshMeasuredMB

**Object**
starThreshIPPoolAvail

**Object ID**
enterprise.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
starThreshPct
starThreshMeasuredPct

Object
starThreshClearIPPoolAvail

Object ID
ternet.8164.2.239

Description
The threshold condition is now clear.

Objects
starIPPoolContext
starIPPoolGroup
starThreshPct
starThreshMeasuredPct

Object
starThreshCPUUtilization10Sec

Object ID
ternet.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
ternet.8164.2.241

Description
The threshold condition is now clear.
Objects
starCPUSlot
starCPUNumber
starThreshPct
starThreshMeasuredPct

Object
starThreshCPULoad

Object ID
enterprise.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
enterprise.8164.2.243

Description
The threshold condition is now clear.

Objects
starCPUSlot
starCPUNumber
starThreshInt
starThreshMeasuredInt

Object
starThreshCPUMemUsage

Object ID
enterprise.8164.2.244

Description
The CPU mem usage for the identified processor has exceeded for configured threshold value for the current monitoring period.
Object
starThreshClearCPUMemUsage

Object ID
enterprise.8164.2.245

Description
The threshold condition is now clear.

Object
starThreshPDSNSessions

Object ID
enterprise.8164.2.246

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

Object
starThreshClearPDSNSessions

Object ID
enterprise.8164.2.247

Description
The threshold condition is now clear.
starThreshGGSNSessions

Object ID
enterprise.8164.2.248

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

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearGGSNSessions

Object ID
enterprise.8164.2.249

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshHASessions

Object ID
enterprise.8164.2.250

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

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearHASessions

Object ID
enterprise.8164.2.251

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
  starThreshLNSSessions

Object ID
  enterprise.8164.2.252

Description
  The total number of L2TP LNS sessions is above the configured threshold value.

Objects
  starThreshInt
  starThreshMeasuredInt

Object
  starThreshClearLNSSessions

Object ID
  enterprise.8164.2.253

Description
  The threshold condition is now clear.

Objects
  starThreshInt
  starThreshMeasuredInt

Object
  starThreshPerServicePDSNSessions

Object ID
  enterprise.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
  enterprise.8164.2.255
Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshPerServiceGGSNSessions

Object ID
enterprise.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
enterprise.8164.2.257

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshPerServiceHASessions

Object ID
enterprise.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
enterprise.8164.2.259

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshPerServiceLNSSessions

Object ID
enterprise.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
enterprise.8164.2.261

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshIPPoolHold

Object ID
enterprise.8164.2.262

Description
The percentage IP pool addresses in HOLD state in a context has gone above the configured threshold.

Objects
starIPPoolContext
starIPPoolName
starThreshPct
starThreshMeasuredPct

Object
starThreshClearIPPoolHold

Object ID
enterprise.8164.2.263

Description
The threshold condition is now clear.

Objects
starIPPoolContext
starIPPoolName
starThreshPct
starThreshMeasuredPct

Object
starThreshIPPoolUsed

Object ID
enterprise.8164.2.264

Description
The percentage IP pool addresses in USED state in a context has gone above the configured threshold.

Objects
starIPPoolContext
starIPPoolName
starThreshPct
starThreshMeasuredPct

Object

starThreshClearIPPoolUsed

Object ID
enterprise.8164.2.265

Description
The threshold condition is now clear.

Objects
starIPPoolContext
starIPPoolName
starThreshPct
starThreshMeasuredPct

starThreshIPPoolRelease

Object ID
enterprise.8164.2.266

Description
The percentage IP pool addresses in RELEASE state in a context has gone above the configured threshold.

Objects
starIPPoolContext
starIPPoolName
starThreshPct
starThreshMeasuredPct
starThreshMeasuredInt

Object

starThreshClearIPPoolRelease

Object ID
enterprise.8164.2.267

Description
The threshold condition is now clear.

Objects
starIPPoolContext
starIPPoolName
starThreshPct
starThreshMeasuredPct
Object
starThreshIPPoolFree

Object ID
enterprise.8164.2.268

Description
The percentage IP pool addresses in HOLD state in a context has gone below the configured threshold.

Objects
starIPPoolContext
starIPPoolName
starIPPoolName
starThreshPct
starThreshMeasuredPct

Object
starThreshClearIPPoolFree

Object ID
enterprise.8164.2.269

Description
The threshold condition is now clear.

Objects
starIPPoolContext
starIPPoolName
starIPPoolName
starThreshPct
starThreshMeasuredPct

Object
starThreshAAAActArchive

Object ID
enterprise.8164.2.270

Description
The AAA accounting archive size has gone above the configured threshold.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearAAAActArchive
**Starent Chassis Traps**

**MIB Textual Conventions**

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**Object ID**

enterprise.8164.2.271

**Description**

The threshold condition is now clear.

**Objects**

starThreshInt
starThreshMeasuredInt

---

**Object**

starThreshPortSpecRxUtil

**Important:** This alarm is obsolete.

---

**Object ID**

enterprise.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

**Important:** This alarm is obsolete.

---

**Object ID**

enterprise.8164.2.273

**Description**

The threshold condition is now clear.

**Objects**

starPortSlot
starPortNum
starThreshPct
starThreshMeasuredPct

**Object**

starThreshPortSpecTxUtil

---

**Important:** This alarm is obsolete.

**Object ID**

enterprise.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

---

**Important:** This trap is obsolete.

**Object ID**

enterprise.8164.2.275

**Description**

The threshold condition is now clear.

**Objects**

- starPortSlot
- starPortNum
- starPortNum
- starThreshPct
- starThreshMeasuredPct

---

**Object**

starThreshHACallSetupRate

---

**Object ID**

enterprise.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**
enterprise.8164.2.277

Description
The threshold condition is now clear.

**Objects**
- starServiceVpnName
- starThreshInt
- starThreshMeasuredInt

**Object**
- starThreshHASvcCallSetupRate

**Object ID**
enterprise.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
enterprise.8164.2.279

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshHASvcRegReplyError

Object ID
enterprise.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
enterprise.8164.2.281

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshHASvcReregReplyError

Object ID
enterprise.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

starThreshClearHASvcReregReplyError

Object ID
enterprise.8164.2.283

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

starThreshHASvcDeregReplyError

Object ID
enterprise.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
enterprise.8164.2.285

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object

starThreshClearFASvcRegReplyError

Object ID
enterprise.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
enterprise.8164.2.287

Description
The threshold condition is now clear.
Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshPDSNCallSetupRate

Object ID
enterprise.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
enterprise.8164.2.289

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starThreshInt
starThreshMeasuredInt

Object
starThreshPDSNSvcCallSetupRate

Object ID
enterprise.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**

`enterprise.8164.2.291`

**Description**

The threshold condition is now clear.

**Objects**

- `starServiceVpnName`
- `starServiceServName`
- `starThreshInt`
- `starThreshMeasuredInt`

**Object**

- `starThreshPDSNSvcA11RRPFailure`

**Object ID**

`enterprise.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
enterprise.8164.2.293

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshPDSNSvcA11RRQMsgDiscard

Object ID
enterprise.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
enterprise.8164.2.295

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshPDSNSvcA11RACMsgDiscard

Object ID
enterprise.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
enterprise.8164.2.297

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshPDSNSvcA11PPPSendDiscard

Object ID
enterprise.8164.2.298

Description
The 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
enterprise.8164.2.299

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshAAAMgrQueue

Object ID
enterprise.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
enterprise.8164.2.301

Description
The threshold condition is now clear.
Objects
starTaskInstance
starThreshPct
starThreshMeasuredPct

Object
starThreshCPUOrbsWarn

Object ID
enterprise.8164.2.302

Description
The ORBs task has exceeding the CPU usage configured as a warning.

Objects
starCPUSlot,
starCPUNumber
starThreshPct
starThreshMeasuredPct

Object
starThreshClearCPUOrbsWarn

Object ID
enterprise.8164.2.303

Description
The threshold condition is now clear.

Objects
starCPUSlot,
starCPUNumber
starThreshPct
starThreshMeasuredPct

Object
starThreshCPUOrbsCritical

Object ID
enterprise.8164.2.304

Description
The ORBs task has exceeded the CPU usage configured as a critical error

Objects
starCPUSlot,
starCPUNumber
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starThreshPct
starThreshMeasuredPct

Object

starThreshClearCPUOrbsCritical

Object ID
enterprise.8164.2.305

Description
The threshold condition is now clear

Objects
starCPUSlot,
starCPUNumber
starThreshPct
starThreshMeasuredPct

Object

starThreshRPSetupFailRate

Object ID
enterprise.8164.2.306

Description
The RP call setup failure rate has exceeded the configured threshold.

Objects
starThreshPct
starThreshMeasuredPct

Object

starThreshClearRPSetupFailRate

Object ID
enterprise.8164.2.307

Description
The threshold condition is now clear

Objects
starThreshPct
starThreshMeasuredPct

Object

starThreshPPPSetupFailRate
Object ID  
enterprise.8164.2.308

Description  
The PPP call setup failure rate has exceeded the configured threshold.

Objects  
starThreshPct  
starThreshMeasuredPct

Object  
starThreshClearPPPSetupFailRate  

Object ID  
enterprise.8164.2.309

Description  
The threshold condition is now clear.

Objects  
starThreshPct  
starThreshMeasuredPct

Object  
starThreshClearStorageUtilization  

Object ID  
enterprise.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  
enterprise.8164.2.311

Description  
The threshold condition is now clear.
Objects
starStorageSlot
starStorageName
starThreshPct
starThreshMeasuredPct

Object
starThreshDCCAProtocolErrors

Object ID
enterprise.8164.2.312

Description
The number of DCCA protocol errors has exceeded the configured threshold.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearDCCAProtocolErrors

Object ID
enterprise.8164.2.313

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshDCCABadAnswers

Object ID
enterprise.8164.2.314

Description
The number of DCCA BadAnswers has exceeded the configured threshold.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearDCCABadAnswers
Object ID
enterprise.8164.2.315

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshDCCAUnknownRatingGroup

Object ID
enterprise.8164.2.316

Description
The number of DCCA UnknownRatingGroup has exceeded the configured threshold.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearDCCAUnknownRatingGroup

Object ID
enterprise.8164.2.317

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshDCCARatingFailed

Object ID
enterprise.8164.2.318

Description
The number of DCCA RatingFailed has exceeded the configured threshold.

Objects
starThreshInt
starThreshMeasuredInt
Object
starThreshClearDCCARatingFailed

Object ID
enterprise.8164.2.319

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshIPSECIKERequests

Object ID
enterprise.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
enterprise.8164.2.321

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt
starThreshIPSECIKENFailures

Object ID
enterprise.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 starThreshClearIPSECIKENFailures notification is generated when the measured value falls below the threshold.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshClearIPSECIKENFailures

Object ID
enterprise.8164.2.323

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshIPSECIKENFailRate

Object ID
enterprise.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 starThreshClearIPSECIKENFailRate notification is generated when the measured value falls below the threshold.

Objects
starServiceVpnName
starServiceServName
starThreshPct
starThreshMeasuredPct

Object
starThreshClearIPSECIKEFailRate

Object ID
enterprise.8164.2.325

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshPct
starThreshMeasuredPct

Object
starThreshIPSECTunSetup

Object ID
enterprise.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
enterprise.8164.2.327

Description
The threshold condition is now clear.
Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshIPSECTunEstabl

Object ID
enterprise.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
enterprise.8164.2.329

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshIPSECCallReqRej

Object ID
enterprise.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 starThreshClearIPSECCallReqRej notification is generated when the measured value falls below the threshold.

Objects
- starServiceVpnName
- starServiceServName
- starThreshInt
- starThreshMeasuredInt

Object ID
enterprise.8164.2.331

Description
The threshold condition is now clear.

Objects
- starServiceVpnName
- starServiceServName
- starThreshInt
- starThreshMeasuredInt

Object
starThreshCSCFSvcRouteFailure

Object ID
enterprise.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
enterprise.8164.2.333

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object

starThreshContFiltRating

Object ID
enterprise.8164.2.334

Description
The number of Content Filtering Rating operations performed has gone 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 starThreshClearContFiltRating notification will be generated when the measured value falls below the threshold.

Objects
starThreshInt
starThreshMeasuredInt

Object

starThreshClearContFiltRating

Object ID
enterprise.8164.2.335

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object

starThreshContFiltBlock
Object ID
enterprise.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
enterprise.8164.2.337

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object

starThreshCDRFileSpace

Object ID
enterprise.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 alarm mode, a starThreshClearCDRFileSpaceOverLimit notification is generated when the measured value falls below the threshold.

Objects
starThreshPct
starThreshMeasuredPct

Object

starThreshClearCDRFileSpace

Object ID
enterprise.8164.2.339
Description
The threshold condition is now clear.

Objects
starThreshPct
starThreshMeasuredPct

Object
starThreshEDRFileSpace

Object ID
enterprise.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
enterprise.8164.2.341

Description
The threshold condition is now clear.

Objects
starThreshPct
starThreshMeasuredPct

Object
starThreshPDIFCurrSess

Object ID
enterprise.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.
Starent Chassis Traps

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearPDIFCurrSess

Object ID
terprise.8164.2.343

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshPDIFCurrActSess

Object ID
terprise.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
terprise.8164.2.345

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshCDRFlowControl
Object ID

enterprise.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 processing 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

enterprise.8164.2.347

Description

The threshold condition is now clear.

Objects

starThreshInt
starThreshMeasuredInt

Object

starThreshASNGWSessTimeout

Object ID

enterprise.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
enterprise.8164.2.349

Description
Threshold condition is now clear

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshASNGWSessSetupTimeout

Object ID
enterprise.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
enterprise.8164.2.351

Description
Threshold condition is now clear

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshASNGWAuthFail

Object ID
enterprise.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 starThreshClearASNGWAthFail notification is generated when the value falls below the threshold.

**Objects**

<table>
<thead>
<tr>
<th>starThreshInt</th>
</tr>
</thead>
<tbody>
<tr>
<td>starThreshMeasuredInt</td>
</tr>
</tbody>
</table>

**Object**

| starThreshClearASNGWAthFail |

**Object ID**

enterprise.8164.2.353

**Description**

Threshold condition is now clear

**Objects**

<table>
<thead>
<tr>
<th>starThreshInt</th>
</tr>
</thead>
<tbody>
<tr>
<td>starThreshMeasuredInt</td>
</tr>
</tbody>
</table>

**Object**

| starThreshASNGWR6InvNai |

**Important:** This object is obsolete.

**Object ID**

enterprise.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.

**Objects**

<table>
<thead>
<tr>
<th>starThreshInt</th>
</tr>
</thead>
<tbody>
<tr>
<td>starThreshMeasuredInt</td>
</tr>
</tbody>
</table>

**Object**

| starThreshClearASNGWR6InvNai |

**Important:** This object is obsolete.

**Object ID**

enterprise.8164.2.355
Description
Threshold condition is now clear

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshASNGWMaxEAPRetry

Object ID
enterprise.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
enterprise.8164.2.357

Description
Threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshASNGWNWEntryDenial

Object ID
enterprise.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
enterprise.8164.2.359

Description
Threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshASNGWHandoffDenial

Object ID
enterprise.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 starThreshASNGWHandoffDenial notification is generated when the value falls below the threshold.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearASNGWHandoffDenial

Object ID
enterprise.8164.2.361

Description
Threshold condition is now clear

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshSGSNSessions
Object ID
enterprise.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
enterprise.8164.2.363

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshPerServiceSGSNSessions

Object ID
enterprise.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
enterprise.8164.2.365

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshSgSnPdpSessions

Object ID
enterprise.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
enterprise.8164.2.367

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshPerServiceSgSnPdpSessions

Object ID
enterprise.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
enterprise.8164.2.369

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshFWDosAttack

Object ID
enterprise.8164.2.370

Description
The cumulative number of FW Denial of Service 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
enterprise.8164.2.371

Description
Threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshFWDropPacket

Object ID
enterprise.8164.2.372

Description
The cumulative number of FW dropped packets 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 starThreshClearFWDropPacket notification is generated when the value falls below the threshold.

Description
starThreshInt
starThreshMeasuredInt

Object
starThreshClearFWDropPacket

Object ID
enterprise.8164.2.373

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshFWDenyRule

Object ID
enterprise.8164.2.374

Description
The cumulative number of FW Deny-Rules has exceeded the 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**
enterprise.8164.2.375

**Description**
The threshold condition is now clear.

**Objects**
starThreshInt
starThreshMeasuredInt

**Object**
starThreshFWNoRule

**Object ID**
enterprise.8164.2.376

**Description**
The cumulative number of FW No Rules 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 starThreshClearFWDenyRule notification is generated when the value falls below the threshold.

**Objects**
starThreshInt
starThreshMeasuredInt

**Object**
starThreshClearFWNoRule

**Object ID**
enterprise.8164.2.377

**Description**
The threshold condition is now clear.

**Objects**
starThreshInt
starThreshMeasuredInt
**Object**

starThreshPHSGWSessTimeout

**Object ID**

enterprise.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**

enterprise.8164.2.379

**Description**

The threshold condition is now clear.

**Objects**

starThreshInt
starThreshMeasuredInt

---

**Object**

starThreshPHSGWSessSetupTimeout

**Object ID**

enterprise.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**

enterprise.8164.2.381
Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshPHSGWAuthFail

Object ID
enterprise.8164.2.382

Description
The number of PHSGW authentication failures has exceeded the configured threshold.

Probable Cause: This is a user-configurable threshold.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearPHSGWAuthFail

Object ID
enterprise.8164.2.383

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshPHSGWMaxEAPRetry

Object ID
enterprise.8164.2.384

Description
The number of PHSGW Maximum EAP Retry has exceeded the configured threshold.

Probable Cause: This is a user-configurable threshold.

Objects
starThreshInt
starThreshMeasuredInt
starThreshClearPHSGWMaxEAPRetry

Object ID
enterprise.8164.2.385

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshPHSGWNWEntryDenial

Object ID
enterprise.8164.2.386

Description
The number of PHSGW Network Entry Denial has exceeded the configured threshold.
Probable Cause: This is a user-configurable threshold.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearPHSGWNWEntryDenial

Object ID
enterprise.8164.2.387

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshPHSGWHandoffDenial

Object ID
enterprise.8164.2.388

Description
The number of PHSGW Handoff Denial has exceeded the configured threshold.
Probable Cause: This is a user-configurable threshold.
Objects

starThreshInt
starThreshMeasuredInt

Object

starThreshClearPHSGWHandoffDenial

Object ID

enterprise.8164.2.389

Description

The threshold condition is now clear.

Objects

starThreshInt
starThreshMeasuredInt

Object

starThreshASNGWSessions

Object ID

enterprise.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

enterprise.8164.2.391

Description

Threshold condition is now clear

Objects

starThreshInt
starThreshMeasuredInt

Object

starThreshPerServiceASNGWSessions
Object ID
enterprise.8164.2.392

Description
The total number of ASNGW 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
enterprise.8164.2.393

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshPHSPCSessSetupTimeout

Object ID
enterprise.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
enterprise.8164.2.395

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshPHSPCSleepModeTimeout

Object ID
enterprise.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
enterprise.8164.2.397

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshPHSPCSmEntryDenial

Object ID
enterprise.8164.2.398

Description
The number of PHSPC sm entry denial has exceeded the configured threshold.

Probable Cause: This is a user-configurable threshold.
Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearPHSPCSmEntryDenial

Object ID
enterprise.8164.2.399

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshSGWSessions

Object ID
enterprise.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
enterprise.8164.2.409

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshPGWSessions

Object ID
enterprise.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**
enterprise.8164.2.411

Description
The threshold condition is now clear.

**Objects**
- starThreshInt
- starThreshMeasuredInt

**Object**
- starThreshClearLMASessions

**Object ID**
enterprise.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**
enterprise.8164.2.413

Description
The threshold condition is now clear.

**Objects**
- starThreshInt
- starThreshMeasuredInt

**Object**
starThreshMAGSessions

Object ID
enterprise.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
enterprise.8164.2.415

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshFNGCurrSess

Object ID
enterprise.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 alarm model, a starThreshClearFNGCurrSess notification will be generated when the measured value falls below the threshold.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearFNGCurrSess

Object ID
enterprise.8164.2.417
Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshFNGCurrActSess

Object ID
terprise.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 alarm mode, a starThreshClearFNGCurrActiveSess notification will be generated when the measured value falls below the threshold.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearFNGCurrActSess

Object ID
terprise.8164.2.419

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshPHSGWEAPOLAuthFailure

Object ID
terprise.8164.2.420

Description
The number of PHSGW EAPOL auth failures has exceeded the configured threshold value. If the thresholding subsystem is configured to run in alarm mode, a starThreshPHSGWEAPOLAuthFailure notification will be generated when the measured value falls below the threshold.

Probable Cause: This is a user-configurable threshold.
The threshold condition is now clear.

Objects
- starThreshInt
- starThreshMeasuredInt

Object
- starThreshClearPHSGWMaxEAPOLRetry

Object ID
enterprise.8164.2.422

Description
The number of PHSGW Max EAPOL retry has exceeded the configured threshold.

Probable Cause: This is a user-configurable threshold.

Objects
- starThreshInt
- starThreshMeasuredInt

Object
- starThreshClearPHSGWMaxEAPOLRetry

Object ID
enterprise.8164.2.423

Description
The threshold condition is now clear.

Objects
- starThreshInt
- starThreshMeasuredInt

Object
- starThreshHSGWSessions

Object ID
enterprise.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**
- starThreshNATPortChunks

**Object ID**
enterprise.8164.2.425

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 alarm mode, a starThreshClearNATPortChunks notification will be generated when the measured value exceeds the threshold.

**Objects**
- starIPPoolContext
- starIPPoolName
- starThreshInt
- starThreshMeasuredInt

**Object**
- starThreshPDGCurrSess

**Object ID**
enterprise.8164.2.426

Description
The chassis-wide count of current PDG sessions has gone above the configured threshold value.

**Probable Cause:** This is a user-configurable threshold. If the thresholding subsystem is configured to run in alarm mode, a starThreshClearPDGCurrSess notification will be generated when the measured value falls below the threshold.

**Object ID**
enterprise.8164.2.427

Description
The threshold condition is now clear.

**Objects**
- starThreshInt
- starThreshMeasuredInt

**Object**
**starThreshPDGCurrActSess**

**Object ID**
enterprise.8164.2.428

**Description**
The chassis-wide count of current PDG active sessions has gone above the configured threshold value.

**Probable Cause**: This is a user-configurable threshold. If the thresholding subsystem is configured to run in alarm mode, a starThreshClearPDGCurrActiveSess notification will be generated when the measured value falls below the threshold.

**Objects**
- starThreshInt
- starThreshMeasuredInt

**starThreshClearPDGCurrActSess**

**Object ID**
enterprise.8164.2.429

**Description**
The threshold condition is now clear.

**Objects**
- starThreshInt
- starThreshMeasuredInt

**starThreshNATPortChunks**

**Object ID**
enterprise.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 alarm mode, a starThreshClearNATPortChunks notification will be generated when the measured value exceeds the threshold.

**Objects**
- starIPPoolContext
- starIPPoolName
- starThreshPct
- starThreshMeasuredPct

**starThreshClearNATPortChunks**
Object ID
enterprise.8164.2.431

Description
The threshold condition is now clear.

Objects
starIPPoolContext
starIPPoolName
starThreshPct
starThreshMeasuredPct

Object
starThreshGPRSSessions

Object ID
enterprise.8164.2.432

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

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearGPRSSessions

Object ID
enterprise.8164.2.433

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshPerServiceGPRSSessions

Object ID
enterprise.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
starThreshClearPerServiceGPRS Sessions

Object ID
enterprise.8164.2.435

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshGPRSPdpSessions

Object ID
enterprise.8164.2.436

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

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearGPRSPdpSessions

Object ID
enterprise.8164.2.437

Description
The threshold condition is now clear.
starThreshPerServiceGPRSPdpSessions

Object ID
enterprise.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
enterprise.8164.2.439

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshMMESessions

Object ID
enterprise.8164.2.440

Description
The total number of subscribers 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 starThreshClearMMESessions notification will be generated when the measured value falls below the threshold.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearMMESessions
Object ID
enterprise.8164.2.441

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshMMEAuthFail

Object ID
enterprise.8164.2.442

Description
This is a user configurable threshold.

Probable Cause: If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearMMEAuthFail notification will be generated when the measured value falls below the threshold.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearMMEAuthFail

Object ID
enterprise.8164.2.443

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshMMEAttachFail

Object ID
enterprise.8164.2.444

Description
The total number of subscribers 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 starThreshClearMMEAttachFail notification will be generated when the measured value falls below the threshold.

**Objects**
- starThreshInt
- starThreshMeasuredInt

**Object**
- starThreshClearMMEAttachFail

**Object ID**
enterprise.8164.2.445

**Description**
The threshold condition is now clear.

**Objects**
- starThreshInt
- starThreshMeasuredInt

**Object**
- starThreshCSCFSvcRegRcvdRate

**Object ID**
enterprise.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**
- starThreshClearCSCFSvcRegRcvdRate

**Object ID**
enterprise.8164.2.447

**Description**
The threshold condition is now clear.

**Objects**
- starServiceVpnName
- starServiceServName
starThreshInt
starThreshMeasuredInt

Object

starThreshCSCFSvcTotalActiveReg

Object ID
enterprise.8164.2.448

Description
The per-service CSCF Total Active Registrations count has gone above the configured threshold value.

Probable Cause: This is a user-configurable threshold.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object

starThreshClearCSCFSvcTotalActiveReg

Object ID
enterprise.8164.2.449

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object

starThreshCSCFSvcCallsPerInterval

Object ID
enterprise.8164.2.450

Description
The Per-Service CSCF Calls Per Interval count has gone above the configured threshold value.

Probable Cause: This is a user-configurable threshold.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object

starThreshClearCSCFSvcCallsPerInterval

Object ID
enterprise.8164.2.451

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object

starThreshCSCFSvcTotalActiveCalls

Object ID
enterprise.8164.2.452

Description
The Per-Service CSCF Total Active Calls count has gone above the configured threshold value.

Probable Cause: This is a user-configurable threshold.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object

starThreshClearCSCFSvcTotalActiveCalls

Object ID
enterprise.8164.2.453

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
   starThreshCSCFSvcTotalCallFailure

Object ID
   enterprise.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
   enterprise.8164.2.455

Description
   The threshold condition is now clear.

Objects
   starServiceVpnName
   starServiceServName
   starThreshInt
   starThreshMeasuredInt

Object
   starThreshCSCFSvcErrorNoResource

Object ID
   enterprise.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
  enterprise.8164.2.457

Description
  The threshold condition is now clear.

Objects
  starServiceVpnName
  starServiceServName
  starThreshInt
  starThreshMeasurInt

Object
  starThreshCSCFSvcErrorTcp

Object ID
  enterprise.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
  enterprise.8164.2.459

Description
  The threshold condition is now clear.

Objects
  starServiceVpnName
  starServiceServName
  starThreshInt
  starThreshMeasuredInt
Object

starThreshCSCFSvcErrorPresence

Object ID
enterprise.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
enterprise.8164.2.461

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object

starThreshCSCFSvcErrorRegAuth

Object ID
enterprise.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
enterprise.8164.2.463

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshBGPRoutes

Object ID
enterprise.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 alarm mode, a starThreshClearBGPRoutes notification will be generated when the measured value falls below the threshold.

Objects
starContextName
starThreshPct
starThreshMeasuredPct

Object
starThreshClearBGPRoutes

Object ID
enterprise.8164.2.465

Description
The threshold condition is now clear.

Objects
starContextName
starThreshPct
starThreshMeasuredPct

Object
starThreshPCCPolicySessions
Object ID
enterprise.8164.2.466

Description
The total number of PCC-Policy sessions is above the configured threshold value.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearPCCPolicySessions

Object ID
enterprise.8164.2.467

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshPerServicePCCPolicySessions

Object ID
enterprise.8164.2.468

Description
The total number of PCC-Policy sessions in a service is above the configured threshold value.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshClearPerServicePCCPolicySessions

Object ID
enterprise.8164.2.469

Description
The threshold condition is now clear.
Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshPCCQuotaSessions

Object ID
enterprise.8164.2.470

Description
The total number of PCC-Quota sessions is above the configured threshold value.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearPCCQuotaSessions

Object ID
enterprise.8164.2.471

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshPerServicePCCQuotaSessions

Object ID
enterprise.8164.2.472

Description
The total number of PCC-Quota sessions in a service is above the configured threshold value.
starThreshClearPerServicePCCQuotaSessions

Object ID
enterprise.8164.2.473

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshPCCAFSessions

Object ID
enterprise.8164.2.474

Description
The total number of PCC-AF sessions is above the configured threshold value.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearPCCAFSessions

Object ID
enterprise.8164.2.475

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshPerServicePCCAFSessions

Object ID
enterprise.8164.2.476

Description
The total number of PCC-AF sessions in a service is above the configured threshold value.
Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshClearPerServicePCCAFSessions

Object ID
enterprise.8164.2.477

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshNPUUtilization

Object ID
enterprise.8164.2.478

Description
The overall NPU utilization for the identified processor is above the configured threshold value.

Probable Cause: This is a user-configurable threshold.

If the thresholding subsystem is configured to run in alarm mode, a starThreshClearNPUUtilization notification will be generated when the measured value falls below the threshold.

Objects
starNPUSlot
starThreshPct
starThreshMeasuredPct

Object
starThreshClearNPUUtilization

Object ID
enterprise.8164.2.479

Description
The threshold condition is now clear.
Objects

starNPUSlot
starThreshPct
starThreshMeasuredPct

Object

starThreshDnsLookupFailure

Object ID

enterprise.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 alarm mode, a starThreshClearDnsLookupFailure notification will be generated when the measured value falls below the threshold.

Objects

starContextName
starThreshPct
starThreshMeasuredPct

Object

starThreshClearDnsLookupFailure

Object ID

enterprise.8164.2.481

Description
The threshold condition is now clear.

Objects

starContextName
starThreshPct
starThreshMeasuredPct

Object

starThreshDiameterRetryRate

Object ID

enterprise.8164.2.482

Description
The percentage of Diameter requests to be retried has exceeded the configured threshold.

Probable Cause: This is a user-configurable threshold.

If the thresholding subsystem is configured to run in an alarm mode, a starThreshClearDiameterRetryRate notification will be generated when the measured value falls below the threshold.
Objects
starThreshPct
starThreshMeasuredPct

Object
starThreshClearDiameterRetryRate

Object ID
enterprise.8164.2.483

Description
The threshold condition is now clear.

Objects
starThreshPct
starThreshMeasuredPct

Object
starThreshHNBGWHnbSess

Object ID
enterprise.8164.2.484

Description
The chassis-wide count of current HNBGW HNB sessions has gone above the configured threshold.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearHNBGWHnbSess

Object ID
enterprise.8164.2.485

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshHNBGWUeSess

Object ID
enterprise.8164.2.486
Description
The chassis-wide count of current HNBGW UE sessions has gone above the configured threshold.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearHNBGWUeSess

Object ID
enterprise.8164.2.487

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshHNBGWluSess

Object ID
enterprise.8164.2.488

Description
The chassis-wide count of current HNBGW IU sessions has gone above the configured threshold.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearHNBGWluSess

Object ID
enterprise.8164.2.489

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshPerServicePDGSessions
<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.2.491</th>
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<tbody>
<tr>
<td>Description</td>
<td>The total number of PDG sessions in a service is above the configured threshold.</td>
</tr>
<tr>
<td>Objects</td>
<td>starThreshInt, starThreshMeasuredInt</td>
</tr>
<tr>
<td>Object</td>
<td>starThreshClearPerServicePDGSessions</td>
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<tr>
<td>Description</td>
<td>The threshold condition is now clear.</td>
</tr>
<tr>
<td>Objects</td>
<td>starThreshInt, starThreshMeasuredInt</td>
</tr>
<tr>
<td>Object</td>
<td>starThreshSystemCapacity</td>
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<tr>
<th>Object ID</th>
<th>enterprise.8164.2.493</th>
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<tbody>
<tr>
<td>Description</td>
<td>The System resource capacity has exceeded the configured threshold.</td>
</tr>
<tr>
<td>Objects</td>
<td>starThreshPct, starThreshMeasuredPct</td>
</tr>
<tr>
<td>Object</td>
<td>starThreshClearSystemCapacity</td>
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</tbody>
</table>

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<tr>
<th>Object ID</th>
<th>enterprise.8164.2.494</th>
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<tbody>
<tr>
<td>Description</td>
<td>The threshold condition is now clear.</td>
</tr>
<tr>
<td>Objects</td>
<td>starThreshPct, starThreshMeasuredPct</td>
</tr>
</tbody>
</table>
Object

starThreshTpoRtoTimeout

**Important:** The Traffic Performance Optimization (TPO) in-line service is not supported in this release.

Object

starThreshHNBGWlU sess

Object ID

enterprise.8164.2.496

Description

The threshold condition is now clear.

Objects

starThreshInt

starThreshMeasuredInt

Object

starThreshTpoDnsFailure

**Important:** The Traffic Performance Optimization (TPO) in-line service is not supported in this release.

Object

starThreshClearTpoDnsFailure

**Important:** The Traffic Performance Optimization (TPO) in-line service is not supported in this release.

Object

starThreshTpoLowCompressionGain

**Important:** The Traffic Performance Optimization (TPO) in-line service is not supported in this release.

Object

starThreshClearTpoLowCompressionGain

**Important:** The Traffic Performance Optimization (TPO) in-line service is not supported in this release.

Object

starThreshEPDGCurrSess
Object ID
enterprise.8164.2.501

Description
The chassis-wide count of current EPDG sessions 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 starThreshClearEPDGCurrSess notification will be generated when the measured value falls below the threshold.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearEPDGCurrSess

Object ID
enterprise.8164.2.502

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshCardTemperatureNearPowerOffLimit

Object ID
enterprise.8164.2.503

Description
On a given card, the distance between the poweroff/reset point and current temperature on card is smaller than the setted threshold during the current monitoring period.

Probable Cause: This is a user-configurable threshold. Possible reasons for this alarm:
- External temperature is too high.
- One or more fan failures.
- Blockages the prevent fan air inflow/outflow.

Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearCardTemperaturePowerOffLimit notification will be generated when the measured temperature falls, making the distance between the poweroff/reset point and current temperature larger than the set threshold.

Objects
starSlotNum
starThreshInt
starThreshMeasuredInt

Object

starThreshClearCardTemperaturePowerOffLimit

Object ID

enterprise.8164.2.504

Description

On a given card, the distance between the poweroff/reset point and current temperature on card is larger than the set clear point.

Objects

starSlotNum
starThreshInt
starThreshMeasuredInt

Object

starThreshHENBGWHenbSessions

Object ID

enterprise.8164.2.504

Description

The total number of HENBGW Henb sessions 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 starThreshClearHENBGWHenbSessions notification will be generated when the measure value falls below the threshold.

Objects

starThreshInt
starThreshMeasuredInt

Object

starThreshClearHENBGWHenbSessions

Object ID

enterprise.8164.2.504

Description

The threshold condition is now clear.

Probable Cause: This is a user configurable threshold. If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearHENBGWHenbSessions notification will be generated when the measure value falls below the threshold.

Objects

starThreshInt
starThreshMeasuredInt
Object
starThreshHENBGWUEsessions

Object ID
enterprise.8164.2.504

Description
The total number of HENBGW UE sessions 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 starThreshClearHENBGWUEsessions notification will be generated when the measure value falls below the threshold.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearHENBGWUEsessions

Object ID
enterprise.8164.2.504

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshHENBGWPagingMessages

Object ID
enterprise.8164.2.504

Description
The total number of HENBGW Paging Messages received 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 starThreshClearHENBGWPagingMessages notification will be generated when the measured value falls below the threshold.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearHENBGWPagingMessages
Object ID
enterprise.8164.2.504

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshAAAAAcctArchiveQueue1

Object ID
enterprise.8164.2.505

Description
The total number of HENBGW Henb sessions 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 starThreshClearAAAAAcctArchiveQueue1 notification will be generated when the measured value falls below the threshold.

Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearAAAAAcctArchiveQueue1 notification will be generated when the measured value falls below the threshold.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearAAAAAcctArchiveQueue1

Object ID
enterprise.8164.2.506

Description
The threshold condition is now clear.

Objects
starTaskInstance
starThreshPct
starThreshMeasuredPct

Object
starThreshAAAAAcctArchiveQueue2

Object ID
enterprise.8164.2.507
Description
The Sessmgr Archive queue usage is 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 starThreshClearAAAacctArchiveQueue2 notification will be generated when the measured value falls below the threshold.

Objects
starTaskInstance
starThreshPct
starThreshMeasuredPct

Object
starThreshClearAAAacctArchiveQueue2

Object ID
enterprise.8164.2.508

Description
The threshold condition is now clear.

Objects
starTaskInstance
starThreshPct
starThreshMeasuredPct

Object
starThreshAAAacctArchiveQueue3

Object ID
enterprise.8164.2.509

Description
The Sessmgr Archive queue usage is 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 starThreshClearAAAacctArchiveQueue3 notification will be generated when the measured value falls below the threshold.

Objects
starTaskInstance
starThreshPct
starThreshMeasuredPct

Object
starThreshClearAAAacctArchiveQueue3
Object ID
enterprise.8164.2.510

Description
The threshold condition is now clear.

Objects
starTaskInstance
starThreshPct
starThreshMeasuredPct

Object
starThreshDnsLookupSrvFailure

Object ID
enterprise.8164.2.510

Description
The Total number of DNS SRV 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 starThreshClearSrvLookupSrvFailure notification will be generated when the measured value falls below the threshold.

Objects
starContextName
starThreshInt
starThreshMeasuredInt

Object
starThreshDnsLookupSrvFailure

Object ID
enterprise.8164.2.511

Description
The Total number of DNS SRV lookup failures

Probable Cause: This is a user configurable threshold. If the thresholding subsystem is configured to run in an 'alarm' mode, a starThreshClearSrvLookupSrvFailure notification will be generated when the measured value falls below the threshold.

Objects
starContextName
starThreshInt
starThreshMeasuredInt

Object
starThreshClearDnsLookupSrvFailure
Object ID
    enterprise.8164.2.511

Description
    The threshold condition is now clear.

Objects
    starContextName
    starThreshInt
    starThreshMeasuredInt

    Object
        starThreshClearDnsLookupSrvFailure

Object ID
    enterprise.8164.2.512

Description
    The threshold condition is now clear.

Objects
    starContextName
    starThreshInt
    starThreshMeasuredInt

    Object
        starOSPFNeighborDown

Object ID
    enterprise.8164.2.1001

Description
    An OSPF neighbor is down.

    Condition Clear Alarm: A starOSPFNeighborFull notification will be generated when the neighbor is restored.

Objects
    starContextName
    starInterfaceName
    starInterfaceIPAddress
    starOSPFNeighborRouterID
    starOSPFNeighborFromState
    starOSPFNeighborToState

    Object
        starOSPFNeighborFull
Object ID
enterprise.8164.2.1002

Description
An OSPF neighbor is full. A starOSPFNeighborFull notification is only sent for neighbors which had previously been declared down via a starOSPFNeighborDown notification.

Objects
starContextName
starInterfaceName
starInterfaceIPAddress
starOSPFNeighborRouterID

Object
starM3UAPSDown

Object ID
enterprise.8164.2.1004

Description
The M3UA Peer Server is unavailable.

Probable Cause: All related Peer Server Processes(PSPs) are in the ASP-Down state for this peer server.

Condition Clear Alarm: A starM3UAPSAwailable notification will be generated when the peer server becomes reachable as at least one PSP is in ASP-Active state.

Objects
starSS7rdId
starSS7M3UAPsID

Object
starM3UAPSAwailable

Object ID
enterprise.8164.2.1005

Description
Peer Server is available and application traffic is active. This state implies that at least one PSP is in the ASP-Active state. A starM3UAPSAvailable notification is only generated for application services which were previously declared down via a starM3UAPSDown notification

Objects
starSS7rdId
starSS7M3UAPsID

Object
starM3UAPSDown
Object ID
enterprise.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 is down or remote peer server is down.

Condition Clear Alarm: A starM3UAPSPUp notification will be generated when the remote ASP is available.

Objects
starSS7rdId
starSS7M3UAPspID
starSS7CauseString

Object
starM3UAPSPUp

Object ID
enterprise.8164.2.1007

Description
ASP Up message from remote M3UA Peer indicates the adaptation layer at the remote peer 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
starSS7CauseString

Object
starSCCPspRcvd

Object ID
enterprise.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 starSCCPspClear notification is generated when this condition is cleared.

Objects
starSccpNwId
starSS7Pc
starSccpSsn

Object
starSCCPSspClear

Object ID
terprise.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
terprise.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
starSessSGSNServName
starSessSGSMcc
starSessSGSNMnc
starSessSGSNRncId

Object
starSGSNHLRReset

Object ID
terprise.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
starSessSGNServName
starSessSGSNhlrNum

Object
starSGSTcpPathFailure

Object ID
enterprise.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 starSGSTcpPathFailureClear alarm is generated when the GSN becomes reachable.

Objects
starSGTPVpnName
starSGTSServName
starSGTPPeerAdd
starSGTPPeerPort
starSGSNSelfAddr
starSGSNSelfPort

Object
starSGSTcpPathFailureClear

Object ID
enterprise.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
starSGTSServName
starSGTPPeerAdd

Object
starSGSTcpPathFailure

Object ID
enterprise.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
- starSGTPPeerPort
- starSGSNSelfAddr
- starSGSNSelfPort

**Object**
- starSGSNGtpuPathFailureClear

**Object ID**
- enterprise.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,
- starSGTPNServName
- starSGTPPeerAddr
- starSGTPPeerPort
- starSGSNSelfAddr
- starSGSNSelfPort

**Object**
- starMTP3LinkOutofService

**Object ID**
- enterprise.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 was deactivated by operator.

**Condition Clear Alarm:** A starMTP3LinkInService message is generated when the link is restored.

**Objects**
- starSS7rdId
- starSS7MTP3LinkSetId
- starSS7MTP3LinkId
Object
starMTP3LinkinService

Object ID
enterprise.8164.2.1017

Description
MTP3 link is now in service.

Objects
starSS7rdId
starSS7MTP3LinkSetId
starSS7MTP3LinkId

Object
starMTP3LinkSetUnAvailable

Object ID
enterprise.8164.2.1018

Description
MTP3 Linkset Unavailable message.

Probable Cause: All links in linkset are down or linkset was 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
enterprise.8164.2.1019

Description
MTP3 linkset is now available

Objects
starSS7rdId
starSS7MTP3LinkSetId

Object
starSCTPAssociationFail

Object ID
enterprise.8164.2.1020
Description
M3UA SCTP association establishment failure.

Probable Cause: Peer is down, or network is down, or 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
enterprise.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
enterprise.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

#### starSS7CauseString

**Object**

starSCTPPathUp

**Object ID**

enterprise.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
- starSS7SCTPSelfAddr
- starSS7SCTPSelfPort
- starSS7SCTPPeerAddr
- starSS7SCTPPeerPort
- starSS7CauseString

### starPortDown

#### starPortUp

**Object ID**

enterprise.8164.2.1024

**Description**

Physical port status is down.

**Probable Cause:** Network is down. Port is disconnected.

**Condition Clear Alarm:** A starPortUp notification is generated when the port is restored.

**Objects**

- starPortSlot
- starPortNum
- starPortType

#### starPortUp

**Object ID**

enterprise.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
test

Description
The base station that the IMG communicates with is now reachable.

Objects
starContextName
starASNGWServicesName
starBSAddress

Object
starBSUnreachable

Object ID
test

Description
The base station that the IMG communicates with is not reachable.

Probable Cause: The base station has failed or the 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
starASNGWServicesName
starBSAddress

Object
starSystemStartup

Object ID
test

Description
The system has completed a reboot/startup
Objects
starChassisType
starChassisDescription
starChassisSWRevision

Object
starMTP3PCUnavailable

Object ID
enterprise.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
enterprise.8164.2.1030

Description
MTP3 route to the point code available

Objects
starSS7rdId
starSS7Pc
starSS7MTP3LinkSetId

Object
starSS7PCUnavailable

Object ID
enterprise.8164.2.1031

Description
SS7 point code unavailable.

Probable Cause: All MTP3 and M3UA routes to the point code are unavailable.
Condition Clear Alarm: A starSS7PCAvailable message is generated when the route is reestablished.
Objects

starSS7rdId
starSS7Pc

Object

starSS7PCAvailable

Object ID
enterprise.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
enterprise.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
enterprise.8164.2.1034

Description
A WiMAX ASN Paging Controller (ASNPC) Service has stopped.

Probable Cause: This is typically caused by operator intervention. In unusual cases it can be caused by the loss of hardware resources 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 packet processing cards 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.
**Starent Chassis Traps**

**Cisco ASR 5x00 Series SNMP MIB Reference**

---

**Objects**

- `starServiceVpnName`
- `starServiceServName`

---

**Object**

- `starDiameterCapabilitiesExchangeFailure`

---

**Object ID**

`enterprise.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**

`enterprise.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**

`enterprise.8164.2.1037`

---

**Description**

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 is generated when condition is cleared.

---
Objects
    starContextName
    starSRPIPvAddress

Object
    starSRPConnUP

Object ID
terprise.8164.2.1038

Description
SRP connection is restored. This notification is only generated after a previous connection loss was reported.

Objects
    starContextName
    starSRPIPvAddress

Object
    starDiameterIPv6PeerDown

Object ID
terprise.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.

Probable 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
terprise.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
  enterprise.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 starIPMSServerReachable notification will be generated when the server becomes reachable.

Object
  starIPMSServerReachable

Object ID
  enterprise.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
  enterprise.8164.2.1043

Description
  A certificate is approaching its expiration. The certificate is still valid, but should be updated with a new certificate.
  **Action to be Taken:** A new certificate should be created and configured on the system.

Objects
  starCertSerialNumber
  starCertIssuer
  starCertExpiryTime

Object
  starCertExpired

Object ID
  enterprise.8164.2.1044
Description
A certificate has expired. The certificate is no longer valid.

Action to be Taken: A new certificate should be created and configured on the system.

Condition Clear Alarm: A starCertValid notification is sent when a new, valid, certificate is configured.

Objects
starCertSerialNumber
starCertIssuer
starCertExpiryTime

Object
starCertValid

Object ID
tc enterprise.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
tc enterprise.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
tc enterprise.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

Object
starSDHSectionDown

Object ID
enterprise.8164.2.1048

Description
The SDH interface on this port is down. The starSDHOperState identifies the specific issue.

Condition Clear Alarm: This condition is cleared by a starSDHSectionUp notification

Objects
- starSDHSlot
- starSDHPort
- starSDHOperState

Object
starSDHSectionUp

Object ID
enterprise.8164.2.1049

Description
The SDH interface on this port is now up. A starSDHSectionUp notification is only generated if a starSDHSectionDown was previously generated for this port.

Objects
- starSDHSlot
- starSDHPort

Object
starSDHPathHopDown

Object ID
enterprise.8164.2.1050

Description
The identified SDH Path is down. The value of starSDHPathOperState identifies the specific failure bits.
### starSDHPath Hop Up

**Object ID**
enterprise.8164.2.1051

**Description**
The identified SDH Path is up.

### starSDH Path Down

**Object ID**
enterprise.8164.2.1052

**Description**
The identified E1 Tributary on this port is down. The value of `starE1TribOperStateLOP` identifies the specific failure bits.

**Condition Clear Alarm:** This condition is cleared by a `starSDHPathHopUp` notification

---

### starSDH Path Objects

- **starSDHPathSlot**
- **starSDHPathPort**
- **starSDHPathNum**
- **starSDHPathOperState**

---

### starSDH Hop Up

**Object ID**
enterprise.8164.2.1053
**Description**

The identified E1 Tributary on this port is now up. A starE1TributaryUp notification is only generated if a starSDHLopDown was previously generated for this E1 tributary.

**Objects**

starE1TribSlot
starE1TribPort
starE1TribPath
starE1TribTug2
starE1TribTu12

**Object**

starSS7PCCongested

**Object ID**

enterprise.8164.2.1056

**Description**

SS7 point code is congested; all the routes to this point-code are congested.

**Probable Cause:** All the routes (both M3UA and MTP3) to this point code have become congested.

**Condition Clear Alarm:** A starSS7PCCongestionCleared notification will be generated when the congestion gets cleared for any one of the routes.

**Objects**

starSS7rdId
starSS7Pc
starSS7CongLevel
starSS7LocalCong

**Object**

starSS7PCCongestionCleared

**Object ID**

enterprise.8164.2.1057

**Description**

SS7 Point code is congested; all the routes to this point-code are congested.

**Objects**

starSS7rdId
starSS7Pc
starSS7CongLevel
starSS7LocalCong

**Object ID**

enterprise.8164.2.1058
Description
A PHS-GW Service has started

**Action to be Taken:** No action required

**Objects**
- starServiceVpnName
- starServiceServName

**Object**
- starPHSGWServiceStop

**Object ID**
enterprise.8164.2.1059

Description
A PHS-GW Service has stopped

**Probable Cause:** This is typically caused by operator intervention. In rare cases it can be caused by the loss of hardware resources to support the running configuration.

**Action to be Taken:** If the PHS-GW 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 PHS-GW service is operational

**Condition Clear Alarm:** A starPHSGWServiceStart notification will be generated when the service is restarted

**Objects**
- starServiceVpnName
- starServiceServName

**Object**
- starGPRSServiceStart

**Object ID**
enterprise.8164.2.1060

Description
A GPRS Service has started

**Action to be Taken:** No action required

**Objects**
- starServiceVpnName
- starServiceServName

**Object**
- starGPRSServiceStop

**Object ID**
enterprise.8164.2.1061
Description
A GPRS Service has stopped.
In unusual cases it can be caused by the loss of hardware resources (packet processing cards) to support the running configuration. This can also happen due to some misconfiguration of the service parameters.

Action to be Taken: If the GPRS service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured packet processing cards are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the GPRS service is operational.

Condition Clear Alarm: A starGPRRSServiceStart notification will be generated when the service is restarted.

Objects
starServiceVpnName
starServiceServName

Object
starGPRSNseDown

Object ID
ta.8164.2.1062

Description
Network Service Entity (NSE) is down.

Possible Cause: The last NSVC (Network Service virtual circuit in the NSE is down.

Condition Clear Alarm: A starGPRSNseUp notification will be generated when at least one NSVC in the NSE comes up.

Objects
starGPRSNsei

Object
starGPRSNseUp

Object ID
ta.8164.2.1063

Description
Network Service Entity (NSE) is up.
The first NSVC (Network Service virtual circuit in the NSE is up.

Condition Clear Alarm: A starGPRSNseUp notification is generated only when a previous starGPRSNseDown has been generated.

Objects
starGPRSNsei

Object
starGPRSNsvcDown
Object ID
enterprise.8164.2.1064

Description
Network Service Entity Virtual Circuit (NSVC) is down.

Probable Cause: NS_ALIVE heartbeat messages sent from the Serving GPRS Support Node (SGSN) were not acknowledged by the Base Station Subsystem (BSS) for a configured number of maximum retries. This trap is generated only when an NSVC goes down due to reasons other than physical port failure. A separate trap is generated for a physical port failure event.

Condition Clear Alarm: A starGPRSNsvcUp will be generated when the NSVC is restored.

Objects
starGPRSNsei
starGPRSNsvci

Object ID
enterprise.8164.2.1065

Description
A Network Service Entity Virtual Circuit (NSVC) comes up. An starGPRSNsvcUp trap is generated only when a previous starGPRSNsvcDown was generated.

Objects
starGPRSNsei
starGPRSNsvci

Object ID
enterprise.8164.2.1066

Description
Base Station Subsystem (BSS) GPRS (General Packet Radio Service) Protocol (BSSGP) Virtual Circuit (BVC) is down.

Probable Cause: All Network Service Entity Virtual Circuits (NSVC) associated with this BVC are down.

Condition Clear Alarm: A starGPRSBvcUp will be generated when the BVC is available.

Objects
starGPRSNsei
starGPRSBvci

Object
starGPRSBvcUp
### starGPRSBvcUp

**Object ID**

enterprise.8164.2.1067

**Description**

Base Station Subsystem (BSS) GPRS ((General Packet Radio Service) Protocol (BSSGP) Virtual Circuit (BVC) is up

**Probable Cause:** At least one NSVC associated with the BVC becomes available. A starGPRSBvcUp is generated only when a previous starGPRSBvcDown has been generated.

**Objects**

- starGPRSNetsei
- starGPRSBvci

### starSDHE1TribDown

**Object ID**

enterprise.8164.2.1068

**Description**

The identified E1 Tributary on this port is down.

**Condition Clear Alarm:** This condition is cleared by a starSDHTugUp notification

**Objects**

- starE1TribSlot
- starE1TribPort
- starE1TribPath
- starE1TribTug2
- starE1TribTu12
- starE1TribOperState

### starSDHE1TribUp

**Object ID**

enterprise.8164.2.1069

**Description**

The condition is cleared.

**Objects**

- starE1TribSlot
- starE1TribPort
- starE1TribPath
- starE1TribTug2
- starE1TribTu12
**Object**

starSDHFractE1LMIDown

**Object ID**

enterprise.8164.2.1070

**Description**

The identified fractional E1 Tributary on this port is down.

**Objects**

starFractE1TribSlot
starFractE1TribPort
starFractE1TribPath
starFractE1TribTug2
starFractE1TribTu12
starFractE1TribTimeslots

---

**Object**

starSDHFractE1LMIUp

**Object ID**

enterprise.8164.2.1071

**Description**

The condition is cleared.

**Objects**

starFractE1TribSlot
starFractE1TribPort
starFractE1TribPath
starFractE1TribTug2
starFractE1TribTu12

---

**Object**

starPHSPCServiceStart

**Object ID**

enterprise.8164.2.1072

**Description**

A PHS-PC Service has started

**Action to be Taken:** No action required

**Objects**

starServiceVpnName
starServiceServName
**Object**

starPHSPCServiceStop

**Object ID**

enterprise.8164.2.1073

**Description**

A PHS-PC Service has stopped

**Probable Cause:** This is typically caused by operator intervention. In rare cases it can be caused by the loss of hardware resources to support the running configuration

**Action to be Taken:** If the PHS-PC service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured packet processing cards are present and running in the system. Check the crash logs for an indication of a software failure.

**Clear Condition:** Verify that the PHS-PC service is operational.

**Condition Clear Alarm:** A starPHSPCServiceStart notification will be generated when the service is restarted.

**Objects**

starIPMSServerVpnName
starIPMSServerAddr

**Object**

starM3UAPSPCongested

**Object ID**

enterprise.8164.2.1074

**Description**

Peer Server Process (PSP) link is congested when the congestion queue size rises above the threshold limit.

**Probable Cause:** No Stream Control Transmission Protocol (SCTP) acknowledgement from peer server due to packet loss, or an acknowledgement with zero window size.

**Condition Clear Alarm:** A starM3UAPSPCongestionCleared notification will be generated when the congestion queue size goes below the threshold limit.

**Objects**

starSS7rdId
starSS7M3UAPsId
starSS7M3UAPspId
starSS7Pc
starSS7CongLevel

**Object**

starM3UAPSPCongestionCleared

**Object ID**

enterprise.8164.2.1075
Description
Peer Server Process (PSP) link Congestion gets cleared when the congestion queue size goes below the threshold limit. A starM3UAPSPCongestionCleared notification is generated only when a previous starM3UAPSPCongested is generated.

Objects
starSS7rdId
starSS7M3UAPsId
starSS7M3UAPspId
starSS7Pc
starSS7CongLevel

Object
starStorageFailed

Object ID
enterprise.8164.2.1076

Description
The specified storage device has failed. This storage device is now out of service and cannot be used to store additional data. This notification is currently only generated for failures on the hard drive attached to the SMC card.

Probable Cause: A hardware failure on the device, or a hardware failure on the card to which the device is attached.

Action to be Taken: Replace the card.

Condition Clear Alarm: A starCardRemoved notification will be generated when the card is removed from the chassis.

Objects
starStorageSlot
starStorageName

Object
starRaidFailed

Object ID
enterprise.8164.2.1077

Description
The specified raid array has failed. The raid array can no longer be used to store data.

Probable Cause: Hardware failure(s) on the devices within the raid array; or hardware failure(s) on the card(s) to which the devices are attached; or the removal of the cards containing devices in the array; or operator action which disabled the raid array.

Condition Clear Alarm: A starRaidStarted notification will be generated when the raid array is online.

Objects
starStorageName

Object
starRaidStarted
Object ID
enterprise.8164.2.1078

Description
The specific raid array has resumed operation. This notification is only generated if a starRaidFailed notification was previously generated for this array.

Objects
starStorageName

Object
starRaidDegraded

Object ID
enterprise.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.

The first variable binding, starStorageName, is indicating the raid array name. The second variable binding, starStorageSlot, is the disk card number where the failure happens. The third varbind, which is also the second starStorageName, is the name of the disk where the fail happens.

Condition Clear Alarm: A starRaidRecovered notification will be generated when the raid array is fully recovered.

Objects
starStorageName
starStorageSlot
starStorageName

Object
starRaidRecovered

Object ID
enterprise.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. As to the variable bindings, please refer to the trap starRaidDegraded.

Objects
starStorageName
starStorageSlot
starStorageName
**Object**

starRMCPUOver

**Important:** In StarOS 15.0 and earlier releases, the object name was starSGSNRMCPUOver.

**Object ID**

enterprise.8164.2.1219

**Description**

The CPU usage is going into Overload level. This event is generated when current CPU usage reaches 50% more of allocated limit.

**Condition Clear Alarm:** A starRMCPUOverClear notification is sent when current CPU usage reaches 50% of allocated limit after over.

**Objects**

starTaskFacilityName
starTaskInstance
starTaskCard
starTaskCPU
starThreshInt
starThreshMeasuredInt

**Object**

starRMCPUOverClear

**Important:** In StarOS 15.0 and earlier releases, the object name was starSGSNRMCPUOverClear.

**Object ID**

enterprise.8164.2.1220

**Description**

The CPU usage is back to normal level.

**Objects**

starTaskFacilityName
starTaskInstance
starTaskCard
starTaskCPU
starThreshInt
starThreshMeasuredInt

**Object**

starPGWServiceStart
Object ID

enterprise.8164.2.1081

Description

A Packet Data Network Gateway (PGW) Service has started.

**Action to be Taken:** No action required.

Objects

starServiceVpnName
starServiceServName

Object ID

enterprise.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 hardware resources 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 packet processing cards 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 ID

enterprise.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
enterprise.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 hardware resources 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 packet processing cards 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
enterprise.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
enterprise.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 hardware resources to support the 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 packet processing cards 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

enterprise.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

enterprise.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 hardware resources (packet processing cards) 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 packet processing cards 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

enterprise.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
   enterprise.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 hardware resources (packet processing cards) 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 packet processing cards 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
   enterprise.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
   enterprise.8164.2.1092

Description
   A Mobility Management Entity (MME) Service has stopped.
**Probable Cause:** This is typically caused by operator intervention. In rare cases it can be caused by the loss of hardware resources (packet processing cards) to support the running configuration.

**Action to be Taken:** If the MME service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured packet processing cards are present and running in the system. Check the crash logs for an indication of a software failure.

**Clear Condition:** Verify that the MME service is operational.

**Condition Clear Alarm:** A starMMEServiceStart notification will be generated when the service is restarted.

---

**Objects**

- starServiceVpnName
- starServiceServName

---

**Object**

- starHSGWServicesStart

**Object ID**

enterprise.8164.2.1093

**Description**

A HRPD Serving Gateway (HSGW) Service has started.

**Action to be Taken:** No action required

---

**Objects**

- starServiceVpnName
- starServiceServName

---

**Object**

- starHSGWServicesStop

**Object ID**

enterprise.8164.2.1094

**Description**

A HRPD Serving Gateway (HSGW) Service has stopped.

**Probable Cause:** This is typically caused by operator intervention. In rare cases it can be caused by the loss of resources (packet processing cards) to support the running configuration.

**Action to be Taken:** If the HSGW service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured packet processing cards are present and running in the system. Check the crash logs for an indication of a software failure.

**Clear Condition:** Verify that the HSGW service is operational.

**Condition Clear Alarm:** A starHSGWServicesStart notification will be generated when the service is restarted.

---

**Objects**

- starServiceVpnName
- starServiceServName
starCPUBusyClear

Object ID
enterprise.8164.2.1095

Description
The CPU is no longer busy.

Objects
starCPUSlot
starCPUNumber

Object
starCPUMemoryLowClear

Object ID
enterprise.8164.2.1096

Description
The CPU is no longer experiencing a low memory condition.

Objects
starCPUSlot
starCPUNumber

Object
starFNGServiceStart

Object ID
enterprise.8164.2.1097

Description
A FNG Service has started.

Action to be Taken: No action required.

Objects
starServiceVpnName
starServiceServName

Object
starFNGServiceStop

Object ID
enterprise.8164.2.1098

Description
A FNG Service has stopped.
**Probable Cause:** This is typically caused by operator intervention. In rare cases it can be caused by the loss of hardware resources 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 packet processing cards are present and running on 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**

enterprise.8164.2.1099

**Description**

The identified manager task has been restarted.

---

**Objects**

- starTaskFacilityName
- starTaskInstance
- starTaskCard
- starTaskCPU

**Object**

- starConfigurationUpdate

**Object ID**

enterprise.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**

enterprise.8164.2.1101

**Description**

A PDG Service has started

**Action to be Taken:** No action required.
Objects

starServiceVpnName
starServiceServName

Object

starPDGServiceStop

Object ID
enterprise.8164.2.1102

Description

A PDG Service has stopped.

Probable Cause: This is typically caused by operator intervention. In rare cases it can be caused by the loss of hardware resources 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

starDynPkgLoadError

Object ID
enterprise.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
enterprise.8164.2.1104

Description

The error condition was removed.
Objects
starDynPkgFilename
starDynCFErrorCode

Object
starDynPkgUpgradeError

Object ID
trace.8164.2.1105

Description
The Dynamic rater package error displayed with an error code. This condition is cleared by a
starDynPkgUpgradeErrorClear notification.

Objects
starDynPkgUpgradeFilename
starDynCFUpgradeErrorCode

Object
starDynPkgUpgradeErrorClear

Object ID
enterprise.8164.2.1106

Description
The Dynamic Rater package error was removed.

Objects
starDynPkgUpgradeFilename
starDynCFUpgradeErrorCode

Object
starCSCFPeerServerUnavailable

Object ID
enterprise.8164.2.1107

Description
Peer server is unavailable

Objects
starCSCFPeerServerVpnName
starCSCFPeerServerSvcName
starCSCFPeerServerName

Object
starCSCFPeerServerOutofService
Object ID
enterprise.8164.2.1108

Description
Peer server is out-of-service

Objects
starCSCFPeerServerVpnName
starCSCFPeerServerSvcName
starCSCFPeerServerName

Object
starCSCFPeerServerInService

Object ID
enterprise.8164.2.1109

Description
Peer server unavailable and/or out of service condition has been cleared.

Objects
starCSCFPeerServerVpnName
starCSCFPeerServerSvcName
starCSCFPeerServerName

Object
starServiceLossPTACsClear

Object ID
enterprise.8164.2.1110

Description
Service Loss condition is now cleared.

Objects
starCardMode

Object
starServiceLossLCClear

Object ID
enterprise.8164.2.1111

Description
Service Loss condition is now cleared.

Objects
starCardMode
Object

starEgtpcPathFailure

Object ID
enterprise.8164.2.1112

Description
EGTP Control Path Failure. No response received for GTPV2 request sent from MME or SGW or PGW.

Probable Cause: 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
enterprise.8164.2.1113

Description
EGTP Control Path Failure condition is no longer valid.

Objects
starEGTPVpnName
starEGTPServName
starEGTPInterfaceType
starEGTPSelfAddr
starEGTPPeerAddr
starEGTPPeerOldRstCnt
starEGTPPeerSessCnt

Object

starCscfSessResourceCongestion
Object ID
terprise.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
terprise.8164.2.1115

Description
A congestion condition has cleared.

Objects
starSmgrId

Object
starOSPFv3NeighborDown

Object ID
terprise.8164.2.1116

Description
An OSPFv3 neighbor is down

Objects
starContextName
starInterfaceName
starInterfaceIPAddress
starOSPFNeighborRouterID
starOSPFFromState
### starOSPFv3NeighborFull

**Object ID**
enterprise.8164.2.1117

**Description**
An OSPFv3 neighbor is full.

**Condition Clear Alarm:** A starOSPFv3NeighborFull notification is only sent for neighbors which had previously been declared down via a starOSPFv3NeighborDown notification.

**Objects**
- starContextName
- starInterfaceName
- starInterfaceIPAddress
- starOSPFNeighborRouterID

### starServiceLossSPIOClear

**Object ID**
enterprise.8164.2.1118

**Description**
Service Loss condition has been cleared.

**Objects**
- starCardMode

### starEgtpuPathFailure

**Object ID**
enterprise.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.

**Probable Cause:** 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
enterprise.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
enterprise.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
enterprise.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
enterprise.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 packet processing card resources to support the running configuration.

Action to be Taken: If the HNB GW service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured packet processing cards are present and running in the system. Check the crash logs for an indication of a software 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
enterprise.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

enterprise.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

starLicenseExpired

Object ID

enterprise.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.

Objects

starLicenseKey
starLicenseExpiryDate
starLicenseDaysAfterExpiry

Object

starPCCPolicyServiceStart

Object ID

enterprise.8164.2.1127

Description

A PCC-Policy Service has started

**Action to be Taken**: No action required

Objects

starServiceVpnName
starServiceServName

Object

starPCCPolicyServiceStop
Object ID

enterprise.8164.2.1128

Description

A PCC-Policy Service has stopped.

Probable Cause: This is typically caused by operator intervention. In rare cases it can be caused by the loss of hardware resources to support the running configuration.

Action to be Taken: If the PCC-Policy service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured packet processing cards are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the PCC-Policy service is operational.

Condition Clear Alarm: A starPCCPolicyServiceStart notification will be generated when the service is restarted.

Objects

starServiceVpnName
starServiceServName

Object

starPCCQuotaServiceStart

Object ID

enterprise.8164.2.1129

Description

A PCC-Quota Service has started.

Action to be Taken: No action required

Objects

starServiceVpnName
starServiceServName

Object

starPCCQuotaServiceStop

Object ID

enterprise.8164.2.1130

Description

A PCC-Quota Service has stopped.

Probable Cause: This is typically caused by operator intervention. In rare cases it can be caused by the loss of hardware resources to support the running configuration.

Action to be Taken: If the PCC-Quota service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured packet processing cards are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the PCC-Quota service is operational.

Condition Clear Alarm: A starPCCQuotaServiceStart notification will be generated when the service is restarted.
Objects
starServiceVpnName
starServiceServName

Object
starPCCAFServiceStart

Object ID
enterprise.8164.2.1131

Description
A PCC-AF Service has started.
Action to be Taken: No action required

Objects
starServiceVpnName
starServiceServName

Object
starPCCAFServiceStop

Object ID
enterprise.8164.2.1132

Description
A PCC-AF Service has stopped.
Probable Cause: This is typically caused by operator intervention. In rare cases it can be caused by the loss of hardware resources to support the running configuration.
Action to be Taken: If the PCC-AF service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured packet processing cards are present and running in the system. Check the crash logs for an indication of a software failure.
Clear Condition: Verify that the PCC-AF service is operational.
Condition Clear Alarm: A starPCCAFServiceStart notification will be generated when the service is restarted.

Objects
starServiceVpnName
starServiceServName

Object
starSPRServerUnreachable

Object ID
enterprise.8164.2.1133

Description
The Subscriber Profile Repository (SPR) server cannot be reached.
Probable Cause: The SPR server is down, or there is a network issue preventing communication with the SPR server.
**Action to be Taken:** Restore the SPR server to an operational status; Verify that the SPR 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 SPR authentication server has been restored.

**Condition Clear Alarm:** When this condition clears a starSPRServerReachable notification will be generated.

**Objects**

- **starSPRServerIpAddr**

**Object**

- **starSPRServerReachable**

**Object ID**

enterprise.8164.2.1134

**Description**

The Subscriber Profile Repository (SPR) 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**

- **starSPRServerIpAddr**

**Object**

- **starGSServiceStart**

**Object ID**

enterprise.8164.2.1135

**Description**

A GS Service has started

**Action to be Taken:** No action required.

**Objects**

- **starServiceVpnName**
- **starServiceServName**

**Object**

- **starGSServiceStop**

**Object ID**

enterprise.8164.2.1136

**Description**

A GS Service has stopped.

**Probable Cause:** This is typically caused by operator intervention. In unusual cases it can be caused by the loss of hardware resources 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 packet processing cards 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**
enterprise.8164.2.1137

**Description**
A MAP Service has started.

**Action to be Taken:** No action required

**Objects**
- starServiceVpnName
- starServiceServName

**Object**
- starMAPServiceStop

**Object ID**
enterprise.8164.2.1138

**Description**
A MAP Service has stopped.

**Probable Cause:** This is typically caused by operator intervention. In unusual cases it can be caused by the loss of hardware resources to support the running configuration.

**Objects**
- starServiceVpnName
- starServiceServName

**Object**
- starIUPSServiceStart

**Object ID**
enterprise.8164.2.1139

**Description**
An IUPS Service has started.

**Action to be Taken:** No action required.
Objects

starServiceVpnName
starServiceServName

Object

starIUPSServiceStop

Object ID

enterprise.8164.2.1140

Description

An IUPS Service has stopped.

Probable Cause: This is typically caused by operator intervention. In unusual cases it can be caused by the loss of hardware resources 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 packet processing cards 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

enterprise.8164.2.1141

Description

A SGTP Service has started

Action to be Taken: No action required.

Objects

starServiceVpnName
starServiceServName

Object

starSGTPServiceStop

Object ID

enterprise.8164.2.1142

Description

A SGTP Service has stopped.

Probable Cause: This is typically caused by operator intervention. In unusual cases it can be caused by the loss of hardware resources 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 packet processing cards 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
starEPDGServ

Object ID
enterprise.8164.2.1143

Description
A EPDG Service has started

Action to be Taken: No action required.

Objects
starServiceVpnName
starServiceServName

Object
starEPDGServ

Object ID
enterprise.8164.2.1144

Description
A EPDG service has stopped.

Probable Cause: This is typically caused by operator intervention. In unusual cases it can be caused by the loss of hardware resources to support the running configuration.

Action to be Taken: If the EPDG service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured packet processing cards are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the EPDG service is operational.

Condition Clear Alarm: A starEPDGServStart notification will be generated when the service is restarted.

Objects
starServiceVpnName
starServiceServName

Object
starApsCommandSuccess
### Object ID
enterprise.8164.2.1145

### Description
APS Command Success Status.

### Objects
- starSlotNum
- starPortSlot
- starIfIndex
- starPortType

#### Object
starApsCommandFailure

### Object ID
enterprise.8164.2.1146

### Description
APS Command Failure Status.

### Objects
- starSlotNum
- starPortSlot
- starIfIndex
- starPortType

#### Object
starApsSwitchSuccess

### Object ID
enterprise.8164.2.1147

### Description
APS Switch Command Status.

### Objects
- starSlotNum
- starPortSlot
- starIfIndex
- starPortType

#### Object
starApsSwitchFailure

### Object ID
enterprise.8164.2.1148
Description
APS Switch Command failure status.

Objects
starSlotNum
starPortSlot
starIfIndex
starPortType

Object
starApsModeMismatch

Object ID
enterprise.8164.2.1149

Description
APS Mode Mismatch Status

Objects
starSlotNum
starCardType
starSlotNum

Object
starApsChannelMismatch

Object ID
enterprise.8164.2.1150

Description
APS channel mismatch Status.

Objects
starSlotNum
starCardType
starSlotNum

Object
starApsByteMismatch

Object ID
enterprise.8164.2.1151

Description
APS byte mismatch status.

Objects
starSlotNum
starCardType
starSlotNum

Object
starApsFeProtLineFailure

Object ID
enterprise.8164.2.1152

Description
APS FE port line failure status.

Objects
starSlotNum
starCardType
starSlotNum
starSlotNum
starSlotNum

Object
starApsLossOfRedundancy

Object ID
enterprise.8164.2.1153

Description
APS Loss of Redundancy Status.

Objects
starSlotNum
starCardType
starSlotNum
starSlotNum
starSlotNum

Object
starApsLossOfRedundancyClear

Object ID
enterprise.8164.2.1154

Description
APS Redundancy Restored Status.

Objects
starSlotNum
starCardType
starSlotNum
starSlotNum
starSlotNum
Object
starHNBGWSGSNRanapReset

Object ID
enterprise.8164.2.1155

Description
HNBGW has received RANAP Reset event from SGSN.

Objects
starSessHNBGWVpnName
starSessHNBGWServName
starSessHNBGWPsNwName
starSessHNBGWSSgsnPtCd

Object
starHNBGWMSCRanapReset

Object ID
enterprise.8164.2.1156

Description
HNBGW has received RANAP Reset event from MSC.

Objects
starServiceVpnName
starSessHNBGWSServName
starSessHNBGWSCsNwName
starSessHNBGWMSCPtCd

Object
starALCAPNodeReset

Object ID
enterprise.8164.2.1157

Description
HNBGW has received ALCAP Node Reset from MGW.

Objects
starSessALCAPVpnName
starSessALCAPServName
starSessALCAPNodeName

Object
starALCAPPathReset
Object ID
enterprise.8164.2.1158

Description
HNBGW has received ALCAP Path Reset from MGW.
This event is sent by MGW on detection of certain failures. MGW can also provide CLI to send the event.
HNBGW will terminate all the cs calls impacted due to the path reset.

Objects
starSessALCAPVpnName
starSessALCAPServName
starSessALCAPNodeName
starSessALCAPPathId

Object
starALCAPPathBlock

Object ID
enterprise.8164.2.1159

Description
HNBGW has received ALCAP Path Block from MGW.

Objects
starSessALCAPVpnName
starSessALCAPServName
starSessALCAPNodeName
starSessALCAPPathId

Object
starALCAPPathUnBlock

Object ID
enterprise.8164.2.1160

Description
ALCAP Unblock received from MGW.

Objects
starSessALCAPVpnName
starSessALCAPServName
starSessALCAPPathId

Object
starSGSServiceStart

Object ID
enterprise.8164.2.1161
Description
An SGS Service has started.

**Action to be Taken:** No action required

**Objects**
- starServiceVpnName
- starServiceServName

**Object**
- starSGServicesStop

**Object ID**
enterprise.8164.2.1162

Description
An SGS Service has stopped.

**Probable Cause:** This is typically caused by operator intervention. In unusual cases it can be caused by the loss of packet processing card resources to support the running configuration.

**Action to be Taken:** If the SGS service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured packet processing cards are present and running in the system. Check the crash logs for an indication of a software failure.

**Clear Condition:** Verify that the SGS service is operational.

**Condition Clear Alarm:** A starSGServicesStart notification will be generated when the service is restarted.

**Objects**
- starServiceVpnName
- starServiceServName

**Object**
- starMMES1AssocFail

**Object ID**
enterprise.8164.2.1163

Description
An S1 Association between an MME service and an eNodeB has failed.

**Action to be Taken:** If the shutdown of the eNodeB was not planned, determine the health/status of the eNodeB. If available, verify the health of the network between the two elements.

**Clear Condition:** The condition is cleared when the S1 Association is reestablished.

**Objects**
- starMMES1AssocVpnName
- starMMES1AssocServName
- starMMES1AssocENBID

**Object**
starMMES1AssocSetup

Object ID
enterprise.8164.2.1164

Description
An S1 Association between an MME service and an eNodeB has been established. Normally a starMMES1AssocSetup notification would be generated only for an associated which had previously failed, but optionally this notification can be generated for any association setup.

Objects
starMMES1AssocVpnName
starMMES1AssocServName
starMMES1AssocENBID

Object starBNGServiceStart

Object ID
enterprise.8164.2.1165

Description
A BNG Service has started.

Action to be Taken: No action required

Objects
starServiceVpnName
starServiceServName

Object starBNGServiceStop

Object ID
enterprise.8164.2.1166

Description
A BNG Service has stopped.

Probable Cause: This is typically caused by operator intervention. In unusual cases it can be caused by the loss of packet processing card resources to support the running configuration.

Action to be Taken: If the BNG service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured processing cards are present and running in the system. Check the crash logs for an indication of a software failure.

Condition Clear Alarm: A starBNGServiceStart notification will be generated when the service is restarted.

Objects
starServiceVpnName
starServiceServName
Object

starMMES1AssocFail

Object ID

enterprise.8164.2.1167

Description

An S1 Association between an MME service and an eNodeB has failed.

**Action to be Taken:** If the shutdown of the eNodeB was not planned, determine the health/status of the eNodeB. If available, verify the health of the network between the two elements.

**Clear Condition:** The condition is cleared when the S1 Association is reestablished.

**Condition Clear Alarm:** A starMMES1AssocEstab notification will be generated when the S1 association is re-established

Objects

starMMES1AssocVpnName
starMMES1AssocServName
starMMES1AssocENBID

Object

starMMES1AssocSetup

Object ID

enterprise.8164.2.1168

Description

An S1 Association between an MME service and an eNodeB has been established. Normally a starMMES1AssocSetup notification would be generated only for an associated which had previously failed, but optionally this notification can be generated for any association setup.

Objects

starMMES1AssocVpnName
starMMES1AssocServName
starMMES1AssocENBID

Object

starMVGPeerDown

Object ID

enterprise.8164.2.1169

Description

A MVG peer is down.

**Problem Cause:** The MVG peer has failed, or a network connectivity prevents reaching the peer.

**Condition Clear Alarm:** A starMVGPeerUp notification will be generated when the peer is up.
Objects
starServiceVpnName
starPeerAddress
starMVGEndpointName
starMVGCauseCode
starMVGProtocolType

Object
starMVGPeerUp

Object ID
enterprise.8164.2.1170

Description
An MVG peer is up. This notification is only generated for peers which have previously been declared down.

Objects
starServiceVpnName
starPeerAddress
starMVGEndpointName
starMVGCauseCode
starMVGProtocolType

Object
starPCCNtfyIntfPeerUnreachable

Object ID
enterprise.8164.2.1173

Description
The IPCF Event Notification Interface peer cannot be reached.

Probable Cause: The Event Notification server on SPR is down or the IP-address/port configuration does not match with the server.

Actions to be Taken: Check the Event Notification server on SPR and ensure it is running. Ensure that IP-address port combination on IPCF match the server side configurations

Condition Clear Alarm: When this condition clears, a starNtfyIntfPeerReachable notification will be generated.

Objects
starPCCNtfyIntfPeerName

Object
starPCCNtfyIntfPeerReachable

Object ID
enterprise.8164.2.1174
**Description**

The Notification Interface peer can be reached.

**Action to be Taken:** No action required.

**Objects**

- starPCCNtfyIntfPeerName

**Object ID**

enterprise.8164.2.1175

**Description**

A Node Service peer has stopped responding

**Action to be Taken:** No Action Required.

**Probable Cause:** The IPSec Node peer has failed, or a network connectivity prevents reaching the peer.

**Condition Clear Alarm:** A starIPSecNodePeerUp notification will be generated when the peer is up.

**Objects**

- starServiceVpnName
- starServiceServName
- starPeerAddress

**Object**

starIPSecNodePeerUp

**Object ID**

enterprise.8164.2.1176

**Description**

A Node Service peer is back online.

**Action to be Taken:** No action required.

**Objects**

- starServiceVpnName
- starServiceServName
- starPeerAddress

**starApsRemoteResponseFail**

**Object ID**

enterprise.8164.2.1176

**Description**

APS Remote Response Fail.
**Starent Chassis Traps**

**MIB Textual Conventions**

**Cisco ASR 5x00 Series SNMP MIB Reference**

**Objects**

- starSlotNum
- starCardType
- starPortSlot

**Object**

- starCdrPurged

**Object ID**

enterprise.8164.2.1178

**Description**

CDR’s purged

**Objects**

- starSessGGSNVpnName
- starSessGGSNAPNName
- starSessGTPPGroupName

**Object**

- starCdrHDDStart

**Important:** This trap has been deprecated.

**Object ID**

enterprise.8164.2.1239

**Description**

CDRs are being written to the HDD

**Probable Cause:** All CGF servers under mentioned gtp group are down.

**Action to be Taken:** Bring CGF server(s) up and verify that servers are functioning properly or change the storage mode.

**Clear Condition:** The condition is cleared when CGF server(s) are reachable.

**Condition Clear Alarm:** starCdrStreamingStart alarm would be generated if CDR(s) were written on HDD when all CGF servers under mentioned gtp group were down.

**Objects**

- starServiceVpnName
- starSessGTPPGroupName

**Object**

- starCdrStreamingStart

**Important:** This trap has been deprecated.
Object ID  
enterprise.8164.2.1240

Description  
CDR streaming is started

Probable Cause: CGF server(s) are up and CDR streaming is started.

Action to be Taken: NA

Clear Condition: All CDRs are streamed.

Condition Clear Alarm: starCdrStreamingComplete alarm will be generated on streaming completion.

Objects  
starServiceVpnName
starSessGTPPGroupName

Object  
starCdrStreamingComplete

Important: This trap has been deprecated.

Object ID  
enterprise.8164.2.1241

Description  
CDR streaming is Completed

Probable Cause: All CDRs written on HDD due to CGF server down have been streamed.

Action to be Taken: NA

Clear Condition: NA

Condition Clear Alarm: NA

Objects  
starServiceVpnName
starSessGTPPGroupName

Object  
starLocalUserAdded

Object ID  
enterprise.8164.2.1180

Description  
A local user was added to the system.

Probable Cause: A command was issued which resulted in a new user being added to the local user database. If this was not a planned action then further investigation is advised.
Objects
starCLIContext
starCLIUsername
starCLITtyname
starCLIRemoteIpAddrType.
starCLIRemoteIpAddr
starCLIDatabaseUsername
starCLIPrivs

Object
starLocalUserRemoved

Object ID
enterprise.8164.2.1181

Description
A local user was removed from the system.

**Probable Cause:** A command was issued which resulted in an existing user being removed from the local user database. If this was not a planned action then further investigation is advised.

Objects
starCLIContext
starCLIUsername
starCLITtyname
starCLIRemoteIpAddrType.
starCLIRemoteIpAddr
starCLIDatabaseUsername

Object
starLocalUserPrivilegeChanged

Object ID
enterprise.8164.2.1182

Description
A local user's privileges were modified.

**Probable Cause:** A command was issued which resulted in an existing user's privileges being modified. If this was not a planned action then further investigation is advised.
starCLIPrivs
starCLIRemoteIpAddrType.

Object
starOsShellAccessed

Object ID
enterprise.8164.2.1183

Description
A user has accessed the operating system (OS) shell.

Probable Cause: A command was issued which resulted in a user’s access to the operating system shell. If this was not a planned action then further investigation is advised.

Objects
starCLIContext
starCLIUsername
starCLITtyname
starCLIRemoteIpAddr
starCLIRemoteIpAddrType.

Object
starTestModeEntered

Object ID
enterprise.8164.2.1184

Description
A user has entered the StarOS Test Mode.

Probable Cause: A command was issued which resulted in a user entering the CLI test command mode. The test command mode is only intended for maintenance and diagnostic activity and access could result in major service disruptions. If this was not a planned action the user should exit from test mode.

Objects
starCLIContext
starCLIUsername
starCLITtyname
starCLIRemoteIpAddr
starCLIRemoteIpAddrType.

Object
starLicenseFeaturesModified

Object ID
enterprise.8164.2.1185
Description
A user has manually modified the StarOS license feature set through the CLI.

Probable Cause: A command was issued which resulted in a user modifying the set of licensed features. This ability was only intended for maintenance and diagnostic activity and could result in major service disruptions. If this action was not intentional, the user should restore the original license feature set.

Objects
starCLIContext
starCLIUsername
starCLITtyname
starCLIRemoteIpAddr
starCLIRemoteIpAddrType.

Object
starHiddenAccessEnabled

Object ID
enterprise.8164.2.1186

Description
An administrator has explicitly enabled the use of hidden test commands.

Probable Cause: A command was configured which resulted in users having access to the specific test commands which may have been previously unavailable. If this action was not intentional, the user should disable access to the hidden test commands.

Objects
starCLIContext
starCLIUsername
starCLITtyname
starCLIRemoteIpAddr
starCLIRemoteIpAddrType.

Object
starHiddenAccessDisabled

Object ID
enterprise.8164.2.1187

Description
An administrator has explicitly disabled the use of hidden test commands.

Probable Cause: A command was configured which resulted in users no longer having access to specific test commands which may have been previously available. If this action was not intentional, the user should re-enable access to the hidden test commands.

Objects
starCLIContext
starCLIUsername
starCLITtyname
starCLIRemoteIpAddr
starCLIRemoteIpAddrType

Object
starLawfullInterceptChanged

Object ID
enterprise.8164.2.1188

Description
Original Lawful Intercept configured by Admin is changed by Admin.

Objects
starCLIUsername

starMMES1PathFail

Object ID
enterprise.8164.2.1189

Description
An S1 Path between an MME service and an eNodeB has failed.

Action to be Taken: If the shutdown of the eNodeB was not planned, determine the health/status of the eNodeB. If available, verify the health of the network between the two elements.

Condition Clear Alarm: A starMMES1PathEstab notification will be generated when the S1 path is re-established.

Objects
starMMES1PathVpnName
starMMES1PathServName
starMMES1PathENBID
starMMES1PathSelfAddr
starMMES1PathSelfPort
starMMES1PathPeerAddr
starMMES1PathPeerPort

Object
starMMES1PathSetup

Object ID
enterprise.8164.2.10
An S1 Path between an MME service and an eNodeB has been established. Normally a starMMESPathSetup notification would be generated only for a path which had previously failed, but optionally this notification can be generated for any path setup.

Objects

starMMESPathVpnName
starMMESPathServName
starMMESPathENBID
starMMESPathSelfAddr
starMMESPathSelfPort
starMMESPathPeerAddr
starMMESPathPeerPort

Object

starHenbgwAccessServiceStart

Object ID

enterprise.8164.2.1193

Description

A HENBGW Access Service has started. No action required

Objects

starServiceVpnName
starServiceServName

Object

starHenbgwAccessServiceStop

Object ID

enterprise.8164.2.1194

Description

A HENBGW Access Service has stopped.

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of hardware resources to support the running configuration.

Action to be Taken: If the HENBGW Access 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 HENBGW Access service is operational.

Condition Clear Alarm: A starHenbgwAccessServiceStart notification will be generated when the service is restarted.

Objects

starServiceVpnName
starServiceServName
### starHenbgwNetworkServiceStart

**Object ID**
enterprise.8164.2.1195

**Description**
A HENBGW Network Service has started

**Objects**
- starServiceVpnName
- starServiceServName

### starHenbgwNetworkServiceStop

**Object ID**
enterprise.8164.2.1196

**Description**
A HENBGW Network Service has stopped.

**Probable Cause:** This is typically caused by operator invention. In unusual cases it can be caused by the loss of hardware resources to support the running configuration.

**Action to be Taken:** If the HENBGW Network 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 HENBGW Network service is operational.

**Condition Clear Alarm:** A starHenbgwNetworkServiceStart notification will be generated when the service is restarted

**Objects**
- starServiceVpnName
- starServiceServName

### starAAAArchiveStarted

**Object ID**
enterprise.8164.2.1197

**Description**
AAA Archive started for sessmgr instance.

A starAAAArchiveStarted trap will be generated if queue size crosses 15% of maximum number of sessmgr items per instance.

**Objects**
- starTaskInstance
starECSTotalDNSLearntIPv4Threshold

Object ID
enterprise.8164.2.1198

Description
DNS Learnt IPv4 entries exceed the threshold limit (high water mark) configured. For IPv4 Max IP entries = 512,00. Alarm Cleared when the IPv4 entries go below the Lower Water Mark configured.

Objects
starECSTotalDNSLearntIPv4ThresholdInstance
starECSTotalDNSLearntIPv4Thresholdconfigured
starECSTotalDNSLearntIPv4Thresholdmeasured

Object
starECSTotalDNSLearntIPv4ThresholdClear

Object ID
enterprise.8164.2.1199

Description
DNS Learnt IPv4 entries reach below the threshold limit (lower water mark) configured.

Objects
starECSTotalDNSLearntIPv4ThresholdInstance
starECSTotalDNSLearntIPv4Thresholdconfigured
starECSTotalDNSLearntIPv4Thresholdmeasured

Object
starECSTotalDNSLearntIPv6Threshold

Object ID
enterprise.8164.2.1200

Description
DNS Learnt IPv6 entries exceed the threshold limit (high water mark) configured. For IPv6 Max IP entries = 256,00. Alarm Cleared when the IPv6 entries go below the Lower Water Mark configured.

Objects
starECSTotalDNSLearntIPv6ThresholdInstance
starECSTotalDNSLearntIPv6Thresholdconfigured
starECSTotalDNSLearntIPv6Thresholdmeasured

Object
starECSTotalDNSLearntIPv6ThresholdClear

Object ID
enterprise.8164.2.1201
Description
DNS Learnt IPv6 entries reach below the threshold limit (lower water mark) configured.

Objects
starECSTotalDNSLearntIPThresholdInstance
starECSTotalDNSLearntIPThresholdconfigured
starECSTotalDNSLearntIPThresholdmeasured

Object
starIPSecNodeIpv6PeerDown

Object ID
enterprise.8164.2.1202

Description
A Node Service peer has stopped responding. This peer is reached using an IPv6 address. For IPv4-connected peers, a starIPSecNodePeerDown notification would be generated.

Problem Cause: The IPSec Node peer has failed, or a network connectivity problem exists.

Condition Clear Alarm: A starIPSecNodeIpv6PeerUp notification will be generated when the peer is up.

Objects
starServiceVpnName
starServiceServName
starPeerAddressIpv6

Object
starIPSecNodeIpv6PeerUp

Object ID
enterprise.8164.2.1203

Description
A Node Service peer is back online. This peer is reached using an IPv6 address. For IPv4-connected peers, a starIPSecNodePeerUp notification would be generated.

Objects
starServiceVpnName
starServiceServName
starPeerAddressIpv6

Object
starLAGGroupDown

Object ID
enterprise.8164.2.1204
### LAG group status is Down

**Description**: LAG group status is Down. This notification is only generated for master physical port and a previous 'starLAGGroupUp' notification was previously generated.

**Action to be Taken**: No action required. The cause for the LAG down should be investigated.

**Objects**
- starPortSlot
- starPortNum
- starLAGPartner

**Object ID**
- enterprise.8164.2.1205

### LAG group status is up

**Description**: LAG group status is up. This notification is only generated for master physical port.

**Action to be Taken**: No action required.

**Objects**
- starPortSlot
- starPortNum
- starLAGPartner

**Object ID**
- enterprise.8164.2.1206

### Probable Cause: The VLR Association has failed, or a network connectivity issue prevents reaching the VLR.

**Condition Clear Alarm**: A starVLRAssocUp notification will be generated when the VLR association is up.

**Objects**
- starSGSServiceVpnName
- starSGSServiceServName
- starVLRName
- starVLRIpAddr1

**Object ID**
- enterprise.8164.2.1207
Description
A VLR Association is up. This notification is only generated for Associations which have previously been declared down.

Objects
starSGSServiceVpnName
starSGSServiceServName
starVLRName
starVLRIpAddr1

Object
starVLRAllAssocDown

Object ID
tenterprise.8164.2.1208

Description
All the VLR Associations are down.

Probable Cause: All the VLR Associations have failed, or network connectivity prevents reaching the VLRs.

Condition Clear Alarm: A starVLRAllAssocUp notification will be generated when all the VLR associations are up.

Objects
starSGSServiceVpnName
starSGSServiceServName

Object
starVLRAllAssocDownClear

Object ID
tenterprise.8164.2.1209

Description
VLR has at least one association up. This notification is only generated for all the associations which were previously declared down.

Objects
starSGSServiceVpnName
starSGSServiceServName

Object
starEnhancedCongestion

Object ID
tenterprise.8164.2.1210

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 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 seen repeatedly, or for sustained periods of time, additional system capacity may need to be brought online. 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.

**Objects**
- starServiceType
- starCongestionPolicy
- starCongestionResourceType
- starCongestionType
- starCongestionActionProfileName

**starEnhancedCongestionClear**

**Object**
enterprise.8164.2.1212

**Description**
A congestion condition has cleared.

**Objects**
- starServiceType
- starCongestionType

**Object**
starSGSNRNCNoResetAck

**Object ID**
enterprise.8164.2.1212

**Description**
SGSN has not received a Radio Network Controller (RNC) reset-ack event. This event is generated on expiry of all retransmission for RNC Reset and non-receipt of Reset-Ack.

**Action to be Taken:** No action required.

**Objects**
- starSessSGSNVpnName
- starSessSGSNServName
- starSessSGSNMcc
- starSessSGSNMnc
- starSessSGSNRncId
Object
starThreshSAEGWSessions.

**Important:** This was previously starSAEGWSessThreshold prior to build 45548. The “clear” notification was starSAEGWSessThresholdClear.

Object ID
enterprise.8164.2.1213

Description
The total number of SAEGW sessions 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 starThreshClearSAEGWSessions notification will be generated when the measured value falls below the threshold.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshSAEGWSessions

**Important:** This object is 14.1 release specific.

Object ID
enterprise.8164.2.1215

Description
Session Manager Flows counting, This event is generated when number of flows in a session manager instance goes beyond configured threshold, it will also print number of PDN, Memory usage and sess manager instance number.

Objects
starSessMgrFlowInstId
starSessMgrFlowPDNNo
starSessMgrFlowMemUsage
starSessMgrFlowCounter
starSessMgrTotalFlowCount

Object
starSGSNRMCPUWarn

Object ID
enterprise.8164.2.1215
Description
The CPU usage is going into Warning level. This event is generated when current CPU usage reaches 90% of allocated limit.

Objects
starTaskFacilityName
starTaskInstance
starTaskCard
starTaskCPU
starThreshInt
starThreshMeasuredInt

Object
starSGSNRMCPUPwarnClear

Object ID
teleport.8164.2.1216

Description
The CPU usage is coming back to normal once warned. This event is generated when current CPU usage reaches 50% of allocated limit after warning.

Objects
starTaskFacilityName
starTaskInstance
starTaskCard
starTaskCPU
starThreshInt
starThreshMeasuredInt

Object
starSGSNRMMemWarn

Object ID
teleport.8164.2.1217

Description
The Memory usage for the proclet is going in Warning level. This event is generated when current memory usage exceeds allocated limit.

Objects
starTaskFacilityName
starTaskInstance
starTaskCard
starTaskCPU
starThreshInt
starThreshMeasuredInt

Object
starSGSNRMMemWarnClear

Object ID
enterprise.8164.2.1218

Description
The memory usage for the proclet is coming back to normal once warned. This event is generated when current memory usage reaches below 90% of allocated limit once warned.

Important: This figure has changed from 90 to 95 percent for this release.

Objects
starTaskFacilityName
starTaskInstance
starTaskCard
starTaskCPU
starThreshInt
starThreshMeasuredInt

Object
starSGSNRMMemOver

Object ID
enterprise.8164.2.1221

Description
The Memory usage of the task is going in Overload level. This event is generated when current Memory usage reached twice allocated limit.

Objects
starTaskFacilityName
starTaskInstance
starTaskCard
starTaskCPU
starThreshInt
starThreshMeasuredInt

Object
starSGSNRMMemOverClear
Object ID
enterprise.8164.2.1222

Description
The memory usage for a proclet reached normal after overload. This event is generated when current Memory usage reaches 50% of allocated limit once overloaded.

Important: This figure has changed from 50 to 95 percent for this release.

Objects
starTaskFacilityName
starTaskInstance
starTaskCard
starTaskCPU
starThreshInt
starThreshMeasuredInt

Object
starSessMgrFlowCount

Object ID
enterprise.8164.2.1223

Description
Session Manager Flows counting, This event is generated when the number of flows in a session manager instance goes beyond configured threshold. It will also print the PDN number, memory usage, and the sess manager instance number.

Objects
starSessMgrFlowInstId
starSessMgrFlowPDNNo
starSessMgrFlowMemUsage
starSessMgrFlowCounter
starSessMgrTotalFlowCount

Object

Object ID
enterprise.8164.2.1224

Description
Clear Session Manager Flows Counting Trap, This event is generated when the number of flows in a session manager instance goes below the configured threshold. It will also print the PDN number, memory usage, and sess manager instance number.
Objects

starSessMgrFlowInstId
starSessMgrFlowPDNNo
starSessMgrFlowMemUsage
starSessMgrFlowCounter
starSessMgrTotalFlowCount

Object

starStorageFound

Object ID

enterprise.8164.2.1225

Description

The specified storage device is found and mounted successfully on the card. This notification only generated to the storage device for which the starStorageNotFound notification was generated.

Objects

starStorage Slot
starStorage name

Object

starStorageNotFound

Object ID

enterprise.8164.2.1226

Description

The specified storage device not found on the card. This notification is currently only generated for failures to access the specified storage device on the card.

Probable Cause: The storage device is not accessible on the card.

Action to be Taken: Verify the storage device on the card is attached correctly.

Condition Clear Alarm: A starStorageFound notification will be generated when the storage device is mounted on the card.

Objects

starStorage Slot
starStorage name

Object

starHENBGWMMESCTPAssocDown

Object ID

enterprise.8164.2.1227

Description

A HENBGW MME SCTP Association is down.
**Probable Cause:** The HENBGW MME SCTP Association has failed, or a network connectivity prevents reaching the MME.

**Condition Clear Alarm:** A starHENBGWMMEsctpAssocUp notification will be generated when the HENBGW MME SCTP association is up.

**Objects**
- starHENBGWS serviceVpnName
- starHENBGWS serviceServName
- starHENBGWS serviceLogicalENBId
- starHENBGWS serviceMMEservName
- starHENBGWS servicePeerAddr
- starHENBGWS servicePeerPort

**Object**
- starHENBGWMMEsCTPAssocDown

**Object ID**
enterprise.8164.2.1228

**Description**
A HENBGW MME SCTP Association is up. This notification is only generated for Association which have previously been declared down, optionally this notification can be generated for any association up.

**Objects**
- starHENBGWS serviceVpnName
- starHENBGWS serviceServName
- starHENBGWS serviceLogicalENBId
- starHENBGWS serviceMMEservName
- starHENBGWS servicePeerAddr
- starHENBGWS servicePeerPort

**Object**
- starHENBGWMMEsCTPAllAssocDown

**Object ID**
enterprise.8164.2.1229

**Description**
All the HENBGW MME SCTP Associations are down.

**Probable Cause:** All the HENBGW MME SCTP Associations has failed, or network connectivity prevents reaching the MMEs.

**Condition Clear Alarm:** A starHENBGWMMEsCTPAllAssocDownClear notification will be generated when at least one HENBGW MME SCTP association is up.

**Objects**
- starHENBGWS serviceVpnName
starHENBGServicServName

**Object**

starHENBGMMESECTPAllAssocDownClear

**Object ID**

enterprise.8164.2.1230

**Description**

HENBGW MME SCTP at least one association is up. This notification is only generated for all the Association which have previously been declared down.

**Objects**

starHENBGServicVpnName
starHENBGServicServName

starECSreaddressServerDown

**Object ID**

enterprise.8164.2.1237

**Description**

Server from readdress server list is detected down. This notification is generated when there are consecutive failures for server.

**Objects**

starPeerAddress
StarUDPPortNum

starECSreaddressServerUp

**Object ID**

enterprise.8164.2.1238

**Description**

Server from readdress server list is detected up. This notification is generated when after deadtime server is detected up.

**Objects**

starHENBGServicVpnName
starHENBGServicServName

starNPDBConnectionDown

**Object ID**

enterprise.8164.2.1231
Description
A NPDB connection is down.
Probable Cause: This is typically caused when NPDB server resets the socket.
Action to be Taken: Check if the NDPB Server is running.
Clear Condition: Verify that PING PONG messages are exchanged with the NPDB Server.
Condition Clear Alarm: A startNPDBConnectionUp notification will be generated when the service is restarted

Objects
starTaskFacilityName
starTaskInstanceId
starNwReachSrvrAddr

Object
starNPDBConnectionUp

Object ID
enterprise.8164.2.1232

Description
A NPDB connection is up.
Action to be Taken: No action required.

Objects
starTaskFacilityName
starTaskInstanceId
starNwReachSrvrAddr

Object
starNPUMissedARPFrames

Object ID
enterprise.8164.2.1233

Description
This trap will be raised when NPU misses the ARP and packets route to kernel. This will print the slot number CPU number and NPU number.

Objects
starNPUSlotNumber
starNPUCPUNumber
starNPUNPUNumber

Object
starNPUMissedARPFramesClear
Object ID  
enterprise.8164.2.1234

Description  
This clear trap will be raised when NPU misses the ARP and packets route to kernel recovers. This will print the slot number CPU number and NPU number.

Objects  
starNPUSlotNumber  
starNPUCPUNumber  
starNPUNPUNumber

Object  
starChassisCrashListFull

Object ID  
enterprise.8164.2.1234

Description  
Chassis crash list is reached full. This notification is generated when no more space is left to store the crash list and reached to disk limit.

Objects  
starChassisCrashList

Object  
starSessMgrCSCFServiceRecoveryComplete

Object ID  
enterprise.8164.2.1236

Description  
Indicates that the CSCF Service had completed recovery.  
This trap is generated when all the calls are recovered and the listen socket becomes active to accept packets

Objects  
starServiceVpnName  
starServiceServName  
starTaskInstance  
starCPUSlot  
starCPUNumber

starECSreaddressServerDown

Object ID  
enterprise.8164.2.1236
Description
Server from readdress server list is detected down. This notification is generated when there are consecutive failures for server.

Objects
starPeerAddress
StarUDPPortNum

starECSSecondaryServerUp

Object ID
enterprise.8164.2.1245

Description
Server from readdress server list is detected up. This notification is generated when after deadtime server is detected up.

Objects
starPeerAddress
StarUDPPortNum

starCdrHDDStart

Object ID
enterprise.8164.2.1245

Description
CDRs are being written to the HDD.

Objects
starServiceVpnName
starSessGTPPGroupName

starCdrStreamingStart

Object ID
enterprise.8164.2.1245

Description
CDR streaming is started

Objects
starServiceVpnName
starSessGTPPGroupName

Object ID
enterprise.8164.2.1245
starCdrStreamingComplete

Object ID
enterprise.8164.2.1245

Description
CDR streaming is Completed

Objects
starServiceVpnName
starSessGTPPGroupName

starVLRDown

Object ID
enterprise.8164.2.1245

Description
A VLR is down

Probable Cause: The VLR has failed, or a network connectivity prevents reaching the VLR.
Condition Clear Alarm: A starVLRUp notification will be generated when the VLR is up.

Objects
starSGSServiceVpnName
starSGSServiceServName
starVLRName

starVLRUp

Object ID
enterprise.8164.2.1245

Description
A VLR is up. This notification is only generated for VLRs which have previously been declared down.

Objects
starSGSServiceVpnName
starSGSServiceServName
starVLRName

starPCFReachable

Object ID
enterprise.8164.2.1245

Description
A PCF that the IMG communication is reachable.
### Starnt Chassis Traps

| Objects                  | starContextName  
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>starPCFAddress</td>
<td></td>
</tr>
</tbody>
</table>

#### Object
- starLIRcvryError

<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.2.1245</th>
</tr>
</thead>
</table>

#### Description
- "This trap will be raised when Lawful Intercepts cannot be saved or recovered to/from backup. This will print the type of error and error string.

### Objects
- starLIRcvryErrType
- starLIRcvryErrString

#### Object
- starLIRcvryComplete

<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.2.1246</th>
</tr>
</thead>
</table>

#### Description
- This trap will be raised when Lawful Intercepts are successfully recovered.

### Object
- starECSreaddressServerDown

<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.2.1237</th>
</tr>
</thead>
</table>

#### Description
- Server from readdress server list is detected down. This notification is generated when there are consecutive failures for server.

### Objects
- starPeerAddress
- StarUDPPortNum

#### Object
- starECSreaddressServerUp

<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.2.1237</th>
</tr>
</thead>
</table>

#### Description
- Server from readdress server list is detected up. This notification is generated when after deadtime server is detected up.
Objects

starPeerAddress
StarUDPPortNum

Object

starCdrHDDStart

Object ID

enterprise.8164.2.1237

Description

CDRs are being written to the HDD.

Objects

starServiceVpnName
starSessGTPPGroupName

Object

starCdrStreamingStart

Object ID

enterprise.8164.2.1237

Description

CDR streaming is started

Objects

starServiceVpnName
starSessGTPPGroupName

Object

starCdrStreamingComplete

Object ID

enterprise.8164.2.1237

Description

CDR streaming is Completed

Objects

starServiceVpnName
starSessGTPPGroupName

Object ID

enterprise.8164.2.1237
Description
A VLR is down.

Problem Cause: The VLR has failed, or a network connectivity prevents reaching the VLR.

Objects
starSGSServiceVpnName
starSGSServiceServName
starVLRName

Object
starVLRUp

Object ID
enterprise.8164.2.1237

Description
A VLR is up. This notification is only generated for VLRs which have previously been declared down.

Objects
starSGSServiceVpnName
starSGSServiceServName
starVLRName

Object
starPCFReachable

Object ID
enterprise.8164.2.1237

Description
A PCF that the IMG communication is reachable.

Objects
starContextName
starPCFAddress

Object
starCGWServiceStart

Object ID
enterprise.8164.2.1237

Description
A Serving Gateway (CGW) Service has started.

Action to be Taken: No action required

Objects
starServiceVpnName
starServiceServName

**Object**

starCGWServiceStop

**Object ID**

enterprise.8164.2.1237

**Description**

A Serving Gateway (CGW) 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 CGW 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 CGW service is operational.

**Condition Clear Alarm:** A starCGWServiceStart notification will be generated when the service is restarted

**Objects**

starServiceVpnName
starServiceServName

**Object**

starMMENewConnectionsDisallowed

**Object ID**

enterprise.8164.2.1237

**Description**

The demultiplexer on the MME chassis has reached a condition where new connections are being dropped/rejected on MME services due to the specified reason. Please note that this is the initial trigger for this condition. More reasons/triggers may be activated later, after the trap has been sent. These are not indicated via a new trap.

Any one of the following reasons could trigger a trap indicating that new connections are being rejected or dropped. Please note that the congestion control feature generates its own set of traps to indicate/clear a congestion condition. However if new connections are being disallowed due to congestion, both sets of traps may be generated. Below is the description of the IMSImgr resource monitored by this trap and the corresponding action.

<table>
<thead>
<tr>
<th>Resource</th>
<th>Configurability to drop/reject</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selected session manager is in suspended state</td>
<td>None</td>
<td>Call dropped</td>
</tr>
<tr>
<td>Selected session manager has no more credits</td>
<td>None</td>
<td>Call dropped</td>
</tr>
<tr>
<td>Memory allocation failed for session entry</td>
<td>None</td>
<td>Call dropped</td>
</tr>
<tr>
<td>Sessmgr pacing queueing failed</td>
<td>None</td>
<td>Call dropped</td>
</tr>
<tr>
<td>No session managers available after retries</td>
<td>None</td>
<td>Call dropped</td>
</tr>
<tr>
<td>Resource</td>
<td>Configurability to drop/reject</td>
<td>Actions</td>
</tr>
<tr>
<td>---------------------------------------------------</td>
<td>--------------------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>Selected sessmgr has refused to add a session</td>
<td>None</td>
<td>Call rejected</td>
</tr>
<tr>
<td>Configured new call policy</td>
<td>Exists</td>
<td>Only option to reject</td>
</tr>
<tr>
<td>Configured congestion policy</td>
<td>Exists</td>
<td>Dropped/Rejected</td>
</tr>
<tr>
<td>Configured overload policy</td>
<td>Exists</td>
<td>Dropped/Rejected</td>
</tr>
<tr>
<td>Sessmgr Pacing queue drop</td>
<td>None</td>
<td>Call dropped</td>
</tr>
<tr>
<td>License limit exceeded</td>
<td>Exists</td>
<td>Dropped/Rejected</td>
</tr>
<tr>
<td>Location of smgr resource failed</td>
<td>None</td>
<td>Dropped</td>
</tr>
<tr>
<td>Attach rate throttling</td>
<td>Two conditions may cause drops: Pacing queue being full OR wait time expired in queue. The action taken when the pacing queue is full is configurable.</td>
<td>Dropped/Rejected</td>
</tr>
</tbody>
</table>

**Action to be Taken:** If this is not intentional (not driven by policy/configuration), cross-check associated counters for each reason provided.

**Clear Condition:** The condition is cleared when new connections at the MME are re-allowed.

**Condition Clear Alarm:** A starMMENewConnectionsAllowed notification will be generated when the condition is cleared.

**Objects**

- starMMEInitialDisallowReason

  **Object**

  starMMENewConnectionsAllowed

  **Object ID**

  enterprise.8164.2.1237

  **Description**

  The MME chassis is now accepting new connections again. All conditions causing MME to disallow new connections have cleared.

**Objects**

- starSlotNum
  - starSlotNum

  **Object**

  starSAMOGServiceStart

  **Object ID**

  enterprise.8164.2.1237
Description
A SAMOG Service has started.

**Action to be Taken:** No action required

**Objects**
- starServiceVpnName
- starServiceServName

**Object**
starSAMOGServiceStop

**Object ID**
enterprise.8164.2.1237

---

Description
A SAMOG 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 SAMOG 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 SAMOG service is operational.

**Condition Clear Alarm:** A starSAMOGServiceStart notification will be generated when the service is restarted

**Objects**
- starServiceVpnName
- starServiceServName

**Object**
starCardSwitchoverStart

**Object ID**
enterprise.8164.2.1237

---

Description
A management card (SPC/MMIO) switchover operation has begun. The first varbind identifies from which management card switchover started. The second varbind identifies to which management card switchover is planned to switch. Switchover can cause a momentary loss of communication through the management interface (SPIO incase of ASR5000), 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 management card 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 management card switchover completed successfully.

**Clear Condition Alarm:** A starCardSPCSwitchoverComplete is generated when the switchover operation has completed.
Objects

starSlotNum
starSlotNum

Object

starCardSwitchoverComplete

Object ID

target.8164.2.1237

Description

A management card (SPC/MMIO) switchover has completed successfully. The first varbind identifies from which management card switchover started. The second varbind identifies to which management card switchover is completed.

Action to be Taken: If the management card 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
starSlotNum

Object

starCardSwitchoverFailed

Object ID

target.8164.2.1237

Description

A management card (SPC/MMIO) switchover operation has failed. The first varbind identifies from which management card switchover started. The second varbind identifies to which management card switchover is failed.

Probable Cause: The management card being switched to was removed or reset before the switchover completed; the switchover operation was terminated by an operator; or a software or hardware failure on another management card.

Action to be Taken: Verify that both management cards 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 management card in question will be reset; a starCardUp notification will be generated when the card is operational again.

Objects

starSlotNum
starSlotNum

Object

starCardMigrateStart

Object ID

target.8164.2.1237
**Description**

A data processing card (PAC/PSC/DPC) Migration operation has begun. The first varbind identifies from which data processing card migration has started. The second varbind identifies to which data processing card migration is planned to migrate.

**Probable Cause:** This is typically caused by an operator action; it can also represent the system recovering from a software or hardware fault. A starCardMigrateComplete is generated when the migration is completed.

**Objects**

```
estarSlotNum
starSlotNum
```

**Object**

```
estarCardMigrateComplete
```

**Object ID**

enterprise.8164.2.1237

**Description**

A data processing card (PAC/PSC/DPC) Migration operation has successfully completed. The first varbind identifies from which data processing card migration has started. The second varbind identifies to which data processing card migration has completed.

**Objects**

```
estarSlotNum
starSlotNum
```

**Object**

```
estarCardMigrateFailed
```

**Object ID**

enterprise.8164.2.1237

**Description**

A data processing card (PAC/PSC/DPC) Migration operation has failed. The first varbind identifies from which data processing card migration has started. The second varbind identifies to which data processing card migration has failed to migrate.

**Probable Cause:** The data processing card 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 another data processing card involved in the migration operation. The data processing card in question will be reset; a starCardUp notification will be generated when the card is operational again.

**Objects**

```
estarSlotNum
starSlotNum
```

**Object**

```
estarTechSuppPasswdChanged
```

---

*Cisco ASR 5x00 Series SNMP MIB Reference*
Object ID
enterprise.8164.2.1237

Description
A user has changed the StarOS tech-support password.

**Probable Cause:** A command was issued which resulted in a user changing the tech-support password value. The tech-support password is used to gain access to the CLI test-commands. These CLI test commands are only intended for maintenance and diagnostic activity and could result in major service disruptions. If this action was unintended, the user should notify the Cisco TAC group to reset the tech-support password.

Objects
* starCLIContext
* starCLIUsername
* starCLITtyname
* starCLIRemoteIpAddrType
* starCLIRemoteIpAddr

---

Object ID
enterprise.8164.2.1237

Description
PMIP Path Failure.

**Possible reason:** This trap will be triggered by MAGMGR/HAMGR when path failure or node restart is detected.

Objects
* starPMIPvpnName
* starPMIPServName
* starPMIPSelfAddrType
* starPMIPSelfAddr
* starPMIPPeerAddrType
* starPMIPPeerAddr
* starPMIPPeerOldRstCnt
* starPMIPPeerNewRstCnt
* starPMIPPeerSessCnt
* starPMIPFailureReason

---

Object ID
enterprise.8164.2.1237

Description

Objects
* starPMIPPathFailureClear
Description
PMIP Control Path Failure condition is no longer valid.

Objects
starPMIPvPnName
starPMIPServName
starPMIPSelfAddrType
starPMIPSelfAddr
starPMIPPeerAddrType
starPMIPPeerAddr
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 Chassis Conformances

This chapter identifies the objects for which compliant information is provided on the chassis.
Mib Textual Conventions

This section describes the MIBGroups and MIBCompliances for the chassis

enterprise.8164.starentMIBConformances(3)

enterprise.8164.3.starentMIBGroups(1)

Object
starChassisGroup

Object ID
enterprise.8164.3.1.1

Description
A collection of objects providing information about a chassis.

Objects
starChassisCriticalCO
starChassisMajorCO
starChassisMinorCO
starChassisAudibleAlarm
starChassisUTCTime
starChassisLocalTime
starChassisType
starChassisAction
starTimeTicks
starChassisDescription
starChassisSWRevision
starChassisPeakCpuUsage
starChassisPeakMemoryUsage
starSlotType
starCardType
starCardOperState
starCardAdminState
starCardRevision
starCardLastStateChange
starCardMode
starCardPacStandbyPriority
starCardLock
starCardHaltsIssued
starCardRebootPending
starCardUsable
starCardSinglePOF
starCardAttachment
starCardTemperature
starSlotNumPorts
starSlotAction
starSlotVoltageState
starSlotNumCPU
starSlotPartNumber
starSlotPartRevision
starSlotSerialNumber
starSlotCLEICode
starSlotCiscoModelName
starSlotCiscoHardwareRev
starSlotCiscoSerialNumber
starSlotMappingType
starSlotMappingRCCNum
starSlotMappingToSlot
starNPUSlot
starFanNum
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
starSessInProgLCPAuthenticating
starSessInProgAuthenticated
starSessInProgIPCPUp
starSessInProgSIPConn
starSessInProgMIPConn
starSessInProgDisc
starSessMgrCount
starSessTtlArrived
starSessTtlRejected
starSessTtlConnected
starSessTtlAuthSucc
starSessTtlAuthFail
starSessTtlLCPUp
starSessTtlIPCPUp
starSessTtlSrcViol
starSessTtlKeepFail
starSessTtlOctForwarded
starSessTtlRPRRegAccept
starSessTtlRPRRegAcceptInterPDSN
starPPPCurrSessions
starSessTtlTxBytes
starSessTtlRxBytes
starSessTtlSIPTxBytes
starSessTtlSIPRrxBytes
starSessTtlMIPTxBytes
starSessTtlMIPRrxBytes
starSessTtlOctForwardedGB
starSessTtlOctForwardedRev1
starSessTtlTxBytesRev1
starSessTtlRxBytesRev1
starSessTtlSIPTxBytesRev1
starSessTtlSIPRxBytesRev1
starSessTtlMIPTxBytesRev1
starSessTtlMIPRxBytesRev1
starSessTtlOctForwardedGBK
starAAAMgrCount
starAAATtlRequests
starAAATtlAuthRequests
starAAATtlAcctRequests
starAAACurRequests
starAAACurAuthRequests
starAAACurAcctRequests
starAAATtlAcctSess
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
starCLIRemoteIpAddrType
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
starPPPStatIcpFailUnknown
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
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starMIPFAStatRegAcceptTotal
starMIPFAStatRegAcceptInitial
starMIPFAStatRegAcceptRenewal
starMIPFAStatRegAcceptDereg
starMIPFAStatRegDenTotal
starMIPFAStatRegDenInitial
starMIPFAStatRegDenRenewal
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starMIPFAStatRegDiscardTotal
starMIPFAStatRegDiscInitial
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starMIPFAStatRegDiscardDereg
starMIPFAStatRegRelayedTotal
starMIPFAStatRegRelayedInitial
starMIPFAStatRegRelayedRenewal
starMIPFAStatRegRelayedDereg
starMIPFAStatRegAuthFailTotal
starMIPFAStatRegAuthFailInitial
starMIPFAStatRegAuthFailRenewal
starMIPFAStatRegAuthFailDereg
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starMIPFAStatRegDenPDSNInitial
starMIPFAStatRegDenPDSNRenewal
starMIPFAStatRegDenPDSNDereg
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starMIPFAStatRegDenHAInitial
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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
starMIPFAStatRegDenPDSNSstaleChallenge
starMIPFAStatRegDenPDSNMTooDistant
starMIPFAStatRegDenPDSNStyleUnavail
starMIPFAStatRegDenPDSNHAUnreach
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
starRPRegAcceptActvStartIntraPDSN
starRPRegAcceptActvStopIntraPDSN
starRPRegRecvInitial
starRPRegAcceptActvStartRenew
starRPRegActvStartRenew
starRPRegActvStopRenew
starRPRegRecvDereg
starRPRegAcceptActvStopDereg
starRPDiscSessAbsent
starRPDiscNoMemory
starRPDiscMalformed
starRPDiscAuthFail
starRPDiscInternalBounce
starRPDiscInpuQueueExceeded
starRPDiscMismatchedId
starRPDiscInvPacketLen
starRPDiscMisc
starRP1xTxBytes
starRP1xRxBytes
starRP1xTxPackets
starRP1xRxPackets
starRPDoTxBytes
starRPDoRxBys
starRPDoTxPackets
starRPDoRxPackets
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
starIPPoolGroupName
starIPPoolGroupVpnName
starIPPoolGroupUsed
starIPPoolGroupHold
starIPPoolGroupRelease
starIPPoolGroupFree
starIPPoolGroupPctUsed
starIPPoolGroupAvail
starLicensedSessions
starCurrentSessions
starDiameterVpnName
starDiameterPeerAddr
starDiameterEndpointName
starDiameterPeerAddrIpv6
starInterfaceIPaddress
starOSPFNeighborRouterID
starOSPFFromState
starOSPFToState
starDiameterEncoderString
starDiameterECode
starContFiltCFUpgradeFilename
starContFiltCFUpgradeErrorCode
starBLUpgradeFilename
starBLUpgradeErrorCode
starDynPkgFilename
starDynCFErrorCode
starDynPkgUpgradeFilename
starDynCFUpgradeErrorCode
starGSSCDRLossConfigured
starGSSCDRLossMeasured
starSessGGSNVpnName
starSessGGSNServName
starSessGGSNPeerPort
starSessGGSNPeerAddr
starSessGGSNImsi
starSessGGSNSubsName
starSessGGSNAPNName
starSessGTPGroupName
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
starSessSub1AAASstart
starSessSub1AAASStop
starSessSub1AAASInterim
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
starSessSub1MIP GratARP Mode
starSessSub1ExtInlSRvrvProc
starSessSub1ExtInlSRvrlngrIPAddr
starSessSub1ExtInlSRvrlngrVLANTag
starSessSub1ExtInlSRvrEgrIPAddr
starSessSub1ExtInlSRvrEgrVLANTag
starSessSub1ExtInlSRvrVPNName
starSessSub1RadAcctMode
starSessSub1InBytesDropped
starSessSub1OutBytesDropped
starSessSub1PeakBPSTx
starSessSub1PeakBPSRx
starSessSub1AveBPSTx
starSessSub1AveBPSRx
starSessSub1SustBPSTx
starSessSub1SustBPSRx
starSessSub1PeakPPSTx
starSessSub1PeakPPSRx
starSessSub1AvePPSTx
starSessSub1AvePPSRx
starSessSub1SustPPSTx
starSessSub1SustPPSRx
starSessSub1ActivePct
starSessSub1IPv4BadHdr
starSessSub1IPv4TtlExceeded
starSessSub1IPv4FragSent
starSessSub1IPv4FragFail
starSessSub1IPv4InACLDrop
starSessSub1IPv4OutACLDrop
starSessSub1IPv4InCSSDownDrop
starSessSub1IPv4OutCSSDownDrop
starSessSub1IPv4OutXOFFDropPkt
starSessSub1IPv4OutXOFFDropByte
starSessSub1IPv4SrcViol
starSessSub1IPv4ProxyDNSRedir
starSessSub1IPv4SrcProxyDNSThru
starSessSub1IPv4ProxyDNSDrop
starSessSub1IPv4SrcViolNoAcct
starSessSub1IPv4SrcViolIgnored
starSessSub1ExtInlSrvrTxPkt
starSessSub1ExtInlSrvrRxPkt
starSessSub1IPv4ICMPDropPkt
starSessSub1TunnelType
starSessSub1IPSECTunDownDropPkt
starSessSub1IPSECFlowID
starSessSub1DormancyTotal
starSessSub1HandoffTotal
starSessSub1AccessFlows
starSessSub1TFT
starSessSub1NASPort
starSessSub1AcctSessionID
starSessSub1CorrID
starSessSub1L2TPPeerIPAddr
starSessSub1IPv4EarlyPDURcv
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
starGSDDiskPath
starGSSTransportPath
starGSSIPMPGroupName
starGSSInterfaceName
starRPSServiceOptionCalls
starPCFStatVpnName
starPCFStatRxPkts
starPCFStatTxPkts
starPCFStatRxBytes
starPCFStatTxBytes
starPCFStatTotalSessions
starPCFStatCurrentSessions
starPCFStatCurrentActiveSessions
starPCFStatCurrentDormantSessions
starPCFStatCurrentSIPConnected
starPCFStatCurrentMIPConnected
starPCFStatCurrentPMIPConnected
starPCFStatCurrentL2TPLACConnected
starPCFStatCurrentOtherConnected
starPCFServName
starPCFRrqRcvd
starPCFRrqAccepted
starPCFRrqDenied
starPCFRrqDiscarded
starPCFInitialRrqRcvd
starPCFInitialRrqAccepted
starPCFIntraPDSNAcActiveHORrqAccepted
starPCFIntraPDSNDormantHORrqAccepted
starPCFInterPDSNHORrqAccepted
starPCFInitialRrqDenied
starPCFInitialRrqDiscarded
starPCFRenewRrqRcvd
starPCFRenewRrqAccepted
starPCFRenewActiveRrqAccepted
starPCFRenewDormantRrqAccepted
starPCFRenewRrqDenied
starPCFRenewRrqDiscarded
starPCFDeregRrqRcvd
starPCFDeregRrqAccepted
starPCFDeregDormantRrqAccepted
starPCFDeregRrqDenied
starPCFDeregRrqDiscarded
starPCFIntraPDSNAcidHORrqAccepted
starPCFIntraPDSNDormantAnidHORrqAccepted
starPCFDeniedUnSpeReason
starPCFDeniedAdmProh
starPCFDeniedInsufResource
starPCFDeniedMobNodeAuthFail
starPCFDeniedIdentMismatch
starPCFDeniedPoorFormedReq
starPCFDeniedUnknownPDSNAddr
starPCFDeniedRevTunnelUnavail
starPCFDeniedRevTunnelRequire
starPCFDeniedUnrecogVendorId
starPCFDeniedSessionClosed
starPCFDeniedBsnSessionInfoUnavail
starPCFRegUpdTransmitted
starPCFRegUpdAccepted
starPCFRegUpdateRpLifetimExpiry
starPCFRegUpdateUpperLayerInitiated
starPCFRegUpdateOtherReason
starPCFRegUpdateHORlease
starPCFRegUpdateSessmgrDied
starPCFAuxA10ConnectionsSetup
starPCFSessionsDenied
starPCFSessionsInit
starPCFSessionsReneg
starPCFDiscLcpRemote
starPCFDiscRpRemote
starPCFDiscRpLocal
starPCFDiscMaxIpcpRetr
starPCFDiscMaxIpv6cpRetr
starPCFDiscMaxLcpRetr
starPCFDiscAuthFail
starPCFDiscSessSetupTimeout
starPCFDiscFlowAddFail
starPCFDiscInvDestContext
starPCFDiscLcpOptFail
starPCFDiscIpcpOptFail
starPCFDiscIpv6cpOptFail
starPCFDiscNoRemIpAddr
starPCFDiscDetectionFail
starPCFDiscMisc
starPCFCurrentSessions
starPCFSessionsSetup
starPCFSessionsRelease
starPCFCurrentRevaSessions
starPCFRevaSessionsSetup
starPCFRevaSessionsRelease
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,
starSS7MTP3LkSetId,
starSS7MTP3LkId,
starSS7SCCTPSelfAddr,
starSS7SCCTPPeerAddr
starSS7SCCTPSelfPort
starSS7SCCTPPeerPort
starSccpSsn,
starSGTPVpnName,
starSGTPServName,
starSGTPSelfAddr,
starSGTPPeerAddr
starSGTPSelfPort
starSGTPPeerPort
starIPMSServerVpnName
starCertExpiryTime
starCertissuer
starFileApplication
starFTPServVpnName
starCSCFPeerServerVpnName,
starCSCFPeerServerSvcName,
starCSCFPeerServerListName,
starCSCFPeerServerName
starCSCFPeerServerState
starSDHOperState
starSDHPathOperState
starE1TribOperStateLOP
starE1TribOperState
starFractE1TribTimeslots
starGPRSNSvci
starGPRS BVc i
starStorageDeviceType
starPDGSysStatus
starPDGSysNumService
starPDGSysSessCurrent
starPDGSysSessCurrActive
starPDGSysSessCurrDormant
starPDGSysSessTtlSetup
starPDGSysChildSACurrent
starPDGVpnID
starPDGVpnName
starPDGServName
starPDGStatus
starPDGSessCurrent
starPDGSessRemain
starPDGSessCurrentActive
starPDGSysSessCurrDormant
starPDGSysSessTtlSetup
starPDGSysChildSACurrent
starPDGVpnID
starPDGVpnName
starPDGServName
starPDGStatus
starPDGSessCurrent
starPDGSessRemain
starPDGSessCurrentActive
starPDGSessCurrentDormant
starPDGSessCurrentIpv6Active
starPDGSessCurrentIpv6Dormant
starPDGSessCurrentIpv4Active
starPDGSessCurrentIpv4Dormant
starPDGBindIpAddress
starPDGBindIpPort
starPDGBindSlot
starPDGBindPort
starPDGSysStatus
starPDGSysNumService
starPDGSysSessCurrent
starPDGSysSessCurrActive
starPDGSysSessCurrDormant
starPDGSysSessTtlSetup
starPDGSysChildSACurrent
tarPDGVpnID
starPDGVpnName
starPDGServName
starPDGStatus
starPDGSessCurrent
starPDGSessRemain
starPDGSessCurrentActive
starPDGSessCurrentDormant
starPDGSessCurrentIpv6Active
starPDGSessCurrentIpv6Dormant
starPDGSessCurrentIpv4Active
starPDGSessCurrentIpv4Dormant
starPDGBindIpAddress
starPDGBindIpPort
starPDGBindSlot
starPDGBindPort
starEGTPVpnName
starEGTPServName
starEGTPInterfaceType
starEGTPSelfPort
starEGTPSelfAddr
starEGTPPeerPort
starEGTPPeerAddr
starEGTPPeerOldRstCnt
starEGTPPeerNewRstCnt
starEGTPPeerSessCnt
starEGTPFailureReason
starLicenseKey
starLicenseExpiryDate
starLicenseDaysRemaining
starLicenseDaysAfterExpiry
starFNGSysStatus
starFNGSysNumService
starFNGSysSessCurrent
starFNGSysSessCurrActive
starFNGSysSessCurrDormant
starFNGSysSessTtlSetup
starFNGSysChildSACurrent
starFNGVpnID
starFNGVpnName
starFNGServName
starFNGStatus
starFNGSessCurrent
starFNGSessRemain
starFNGSessCurrentActive
starFNGSessCurrentDormant
starFNGSessCurrentIpv6Active
starFNGSessCurrentIpv6Dormant
starFNGSessCurrentIpv4Active
starFNGSessCurrentIpv4Dormant
starFNGBindIpAddress
starFNGBindIpPort
starFNGBindSlot
starFNGBindPort
starMMES1AssocVpnName
starMMES1AssocServName
starMMES1PathVpnName
starMMES1PathServName
starMMES1PathSelfAddr
starMMES1PathSelfPort
starMMES1PathPeerAddr
starMMES1PathPeerPort
starSPRServerIpAddr
starSessHNBGWVpnName
starSessHNBGWservName
starSessHNBGWCsnWName
starSessHNBGPswNwName
starSessHNBGPswGsnPtCd
starSessHNBGPswMscPtCd
starHENBGPwServiceVpnName
starHENBGPwServiceServName
starHENBGPwServiceLogicalENBId
starHENBGPwServiceMMEServName
starHENBGPwServicePeerAddr
starHENBGPwServicePeerPort
starSessALCAPVpnName
starSessALCAPServName
starSessALCAPAAAL2NodeName
starSessALCAPPathId
starMVGEndpointName
starMVGCauseCode
starMVGProtocolType
starPCCNtfyIntfPeerName
starPMIPvPvPnName
starPMIPvServName
starPMIPSelfAddrType
starPMIPSelfAddr
starPMIPPeerAddrType
starPMIPPeerAddr
starPMIPPeerOldRstCnt
starPMIPPeerNewRstCnt
starPMIPPeerSessCnt
starPMIPFailureReason

Object
starAlertGroup

Object ID
enterprise.8164.3.1.3

Description
A collection of objects to control the rate at which traps can be generated.

Objects
starMaxAlertsPerTime
starWindowTime
starAlertSendingEnabled

Object
   starAlertTrapGroup

Object ID
   enterprise.8164.3.1.4

Description
   A collection of traps related to trap thresholding.

Notifications
   starAlertsDisabled
   starAlertsEnabled

Object
   starTrapGroup

Object ID
   enterprise.8164.3.1.4

Description
   A collection of objects which represent required notifications.

Objects
   starCardTempOverheat
   starCardTempOK
   starCardReset
   starCardRebootRequest
   starCardUp
   starCardVoltageFailure
   starCardRemoved
   starCardInserted
   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
starAlertsDisabled
starAlertsEnabled
starAAAAuthServerUnreachable
starAAAAuthServerReachable
starAAAAuthServerMisconfigured
starAAAAccServerUnreachable
starAAAAccServerReachable
starAAAAccServerMisconfigured
starLogMsg
starPDSNServiceStart
starPDSNServiceStop
starHAServiceStart
starHAServiceStop
starFAServiceStart
starFAServiceStop
starCLISessionStart
starCLISessionEnd
starCritTaskFailed
starCardActive
starLACServiceStart
starLACServiceStop
starLNSServiceStart
starLNSServiceStop
starCardDown
starGGSNServiceStart
starGGSNServiceStop
starLicenseExceeded
starSubscriberLimit
starSessionRejectNoResource
starSIPServiceStart
starSIPServiceStop
starVIMSServiceStart
starVIMSServiceStop
starCHATCONFServiceStart
starCHATCONFServiceStop
starSIPRouteNomatch
star3addrunreachable
starSWUpgradeStart
starSWUpgradeComplete
starSWUpgradeAborted
starBGPPeerSessionUp
starBGPPeerSessionDown
starSRPActive
starSRPStandby
starBGPPeerReachable
starBGPPeerUnreachable
starSRPAAAAReachable
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
starPHSGWServiceStart
starPHSGWServiceStop
starPHSPCServiceStart
starPHSPCServiceStop
starIPSECDynTunUp
starIPSECDynTunDown
starHeartbeat
starOverloadSystem
starOverloadSystemClear
starOverloadService
starOverloadServiceClear
starStorageServerClusterStateChange
starStorageServerClusSwitchOver
starStorageServerClusPathFail
starStorageServerClusPathOK
starStorageServerClusInterCFail
starStorageServerClusInterCOK
starStorageServerClusIntfFail
starStorageServerClusIntfOK
starStorageServerMemLow
starStorageServerMemNormal
starLongDurTimerExpiry
starClosedRPSERVICEStart
starClosedRPSERVICEStop
starGtpcPathFailure
starGtpuPathFailure
starManagerFailure
starEISServerAlive
starEISServerDead
starCgfAlive
starCgfDead
starCdrPurged
starAAAArchiveStarted
starIPSecNodeIpv6PeerDown
starIPSecNodeIpv6PeerUp
starVLRAssocDown
starVLRAssocUp
starVLRAliAssocDown
starVLRAliAssocDownClear
starVLRRDown
starVLRRUp
starStorageServerAlive
starStorageServerDead
starGgsnInitiatedUpdtFailed
starCongestion
starCongestionClear
starCsFssResourceCongestion
starCsFssResourceCongestionClear
starServiceLossPTACs
starServiceLossLC
starServiceLossSPIO
starIPSPAllAddrsFree
starPCFUnreachable
starPCFReachable
starLIRcvryError
starLIRcvryComplete
starCGWServicestart
starCGWServiceStop
starDhcpAlive
starDhcpDead
starDhcpServiceStarted
starDhcpServiceStopped
starNTPPeerUnreachable
starNTPSyncLost
starL2TPPeerUnreachable
starCardStandby
starLicenseUnderLimit
starIPSECPriTunDown
starIPSECPriTunUp
starIPSECSecTunDown
starIPSECSecTunUp
starIPSECTunSwitchFail
starIPSECTunSwitchComplete
starNwReachServerAlive
starNwReachServerDead
starStorageServerUnackedGcdrVolPurge
starStorageServerUnackedGcdrFileGen
starNTPPeerReachable
starNTPSyncEstablished
starContFiltDBError
starContFiltDBErrorClear
starPDIFServiceStart
starBLDBError
starBLDBErrorClear
starContFiltDBUpgradeError
starContFiltDBUpgradeErrorClear
starBLDBUpgradeError
starBLDBUpgradeErrorClear
starDynPkgLoadError
starDynPkgLoadErrorClear
starDynPkgUpgradeError
starDynPkgUpgradeErrorClear
starPDIFServiceStart
starPDIFServiceStop
starSessMgrRecoveryComplete
starSessMgrFlowCount
starSessMgrFlowCountClear
starDiameterPeerDown
starDiameterPeerUp
starDiameterServerUnreachable
starDiameterServerReachable
starDiameterCapabilitiesExchangeSuccess
starDiameterCapabilitiesExchangeFailure
starCDRFileRemoved
starCSCFPeerServerReachable
starCSCFPeerServerUnreachable
starCSCFPeerServerUnavailable
starCSCFPeerServerOutofService
starCSCFPeerServerInService
starCLIConfigMode
starSGSNServiceStart
starSGSNServiceStop
starM3UAPCUnavailable
starM3UAPCAvailable
starECSTotalDNSLearntIPv4Threshold
starECSTotalDNSLearntIPv4ThresholdClear
starECSTotalDNSLearntIPv6Threshold,
starECSTotalDNSLearntIPv6ThresholdClear,
starM3UAPSDown,
starM3UAPSActive
starM3UAPSPDown
starM3UAPSPUp
starSCCPSSspRcvd
starSCCPSSspClear
starSGSNRNCReset
starSGSNHLRReset
starSGSNGtpcPathFailure
starSGSNGtpcPathFailureClear
starSGSNGtpuPathFailure
starSGSNGtpuPathFailureClear
starMTP3LinkOutOfService
starMTP3LinkInService
starMTP3LinkSetUnAvailable
starMTP3LinkSetAvailable
starSCTPAssociationFail
starSCTPAssociationEstablished
starSCTPPathDown
starSCTPPathUp,
starMTP3PCUnavailable
starMTP3PCAvailable
starSS7PcUnavailable
starSS7PcAvailable
starSS7PCCongested
starSS7PCCongestionCleared
starM3UAPSPCongested
starM3UAPSPCongestionCleared
starStorageFailed
starRaidFailed
starRaidStarted
starRaidDegraded
starRaidRecovered
starHENBGWMMESCTPAssocDown
starHENBGWMMESCTPAssocUp
starHENBGWMMESCTPAllAssocDown
starHENBGWMMESCTPAllAssocDownClear
starECSreaddressServerDown
starECSreaddressServerUp
starStorageFound
starStorageNotFound
starASNPCServiceStart
starPDGServiceStart
starPDGServiceStop
starDiameterIpv6PeerDown
starDiameterIpv6PeerUp
starIPMSServerUnreachable
starIPMSServerReachable
starCertShortLifetime
starServiceLossPTACsClear
starServiceLossLCClear
starOSPFv3NeighborDown
starOSPFv3NeighborFull
starLicenseAboutToExpire
starLicenseExpired
starStorageServerCDRLoss
starPCCPolicyServiceStart
starPCCPolicyServiceStop
starPCCQuotaServiceStart
starPCCQuotaServiceStop
starPCCAFServiceStart
starPCCAFServiceStop
starThreshPCCPolicySessions
starThreshClearPCCPolicySessions
starThreshPerServicePCCPolicySessions
starThreshClearPerServicePCCPolicySessions
starThreshPCCQuotaSessions
starThreshClearPCCQuotaSessions
starThreshPerServicePCCQuotaSessions
starThreshClearPerServicePCCQuotaSessions
starThreshPCCAFSessions
starThreshClearPCCAFSessions
starThreshPerServicePCCAFSessions
starThreshClearPerServicePCCAFSessions
starSPRServerUnreachable
starSPRServerReachable
starGSServiceStart
starGSServiceStop
starMAPServiceStart
starMAPServiceStop
starIUPSServiceStart
starIUPSServiceStop
starSGTPServiceStart
starSGTPServiceStop
starEPDGSERVICEStart
starEPDGSERVICEStop
starApsCommandSuccess
starApsCommandFailure
starApsSwitchSuccess
starApsSwitchFailure
starApsModeMismatch
starApsChannelMismatch
starApsByteMismatch
starApsFepLineFailure
starApsLossOfRedundancy
starApsLossOfRedundancyClear
starSGSServiceStart
starSGSServiceStop
starSgsnGnMsgDelay
starSgsnGnMsgDelayClear
starBNGServiceStart
starBNGServiceStop
starHenbgwAccessServiceStart
starHenbgwAccessServiceStop
starHenbgwNetworkServiceStart
starHenbgwNetworkServiceStop
starThreshDnsLookupFailure
starThreshClearDnsLookupFailure
starThreshDiameterRetryRate
starThreshClearDiameterRetryRate
starMmes1AssocFail
starMmes1AssocSetup
starMmes1PathFail
starMmes1PathSetup
starHnbGwGsnRanapReset
starHnbGwMscRanapReset
starALCAPNodeReset
starALCAPPathReset
starALCAPPathBlock
starALCAPPathUnBlock
starThreshHnbGwHnbSess
starThreshClearHnbGwHnbSess
starThreshHnbGwUeSess
starThreshClearHNBGWuSess
starThreshHNBGWuSess
starThreshClearHNBGWuSess
starMVGPeerDown
starMVGPeerUp
starThreshSystemCapacity
starThreshClearSystemCapacity
starThreshClearHNBGWuSess
starSGSNRNCNoResetAck
starSAEGWSSessThreshold. Note: this is now starThreshSAEGWSessions
starSAEGWSSessThresholdClear. Note: this is now starThreshClearSAEGWSessions
starPCCNtfyIntfPeerUnreachable
starPCCNtfyIntfPeerReachable
starIPSecNodePeerDown
starIPSecNodePeerUp
starThreshCardTemperatureNearPowerOffLimit
starThreshClearCardTemperaturePowerOffLimit
starEnhancedCongestion
starEnhancedCongestionClear
starChassisCrashListFull
starSessMgrCSCFSERVICERecoveryComplete
starNPDBConnectionDown
starNPDBConnectionUp
starCdrHDDStart
starCdrStreamingStart
starCdrStreamingComplete
starMMENewConnectionsDisallowed
starMMENewConnectionsAllowed
starSAMOGServiceStart
starSAMOGServiceStop
starCardSwitchoverStart
starCardSwitchoverComplete
starCardSwitchoverFailed
starCardMigrateStart
starCardMigrateComplete
starCardMigrateFailed
starPMIPPathFailure
starPMIPPathFailureClear
starHENBGWMMESCTPAssocDestAddrDown
starHENBGWMMESCTPAssocDestAddrUp
starMRMEServiceStart
starMRMEServiceStop
starThreshPerServiceSAMOGSessions
starThreshClearPerServiceSAMOGSessions
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
starThreshAAAcctArchive
starThreshClearAAAcctArchive
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
starThreshAAAAcctArchiveQueue1
starThreshClearAAAAcctArchiveQueue1
starThreshAAAAcctArchiveQueue2
starThreshClearAAAAcctArchiveQueue2
starThreshAAAAcctArchiveQueue3
starThreshClearAAAAcctArchiveQueue3
starThreshDnsLookupSrvFailure
starThreshClearDnsLookupSrvFailure
starThreshCPUOrbsWarn
starThreshClearCPUOrbsWarn
starThreshCPUOrbsCritical
starThreshClearCPUOrbsCritical
starThreshRPSetupFailRate
starThreshClearRPSetupFailRate
starThreshPPPSetupFailRate
starThreshClearPPPSetupFailRate
starThreshStorageUtilization
starThreshClearStorageUtilization
starThreshDCCAProtocolErrors
starThreshClearDCCAProtocolErrors
starThreshDCCABadAnswers
starThreshClearDCCABadAnswers
starThreshDCCAUnknownRatingGroup
starThreshClearDCCAUnknownRatingGroup
starThreshDCCARatingFailed
starThreshClearDCCARatingFailed
starThreshIPSECIKERequests
starThreshClearIPSECIKERequests
starThreshIPSECIKEFailures
starThreshClearIPSECIKEFailures
starThreshIPSECIKEFailRate
starThreshClearIPSECIKEFailRate
starThreshIPSECTunSetup
starThreshClearIPSECTunSetup
starThreshIPSECTunEstablished
starThreshClearIPSECTunEstablished
starThreshPSECCallReqRej
starThreshClearPSECCallReqRej
starThreshCSCFSvcRouteFailure
starThreshClearCSCFSvcRouteFailure
starThreshCSCFSvcRegRecvdRate
starThreshClearCSCFSvcRegRecvdRate
starThreshCSCFSvcTotalActiveReg
starThreshClearCSCFSvcTotalActiveReg
starThreshCSCFSvcInviteRecvdRate
starThreshClearCSCFSvcInviteRecvdRate
starThreshCSCFSvcTotalActiveCalls
starThreshClearCSCFSvcTotalActiveCalls
starThreshCSCFSvcTotalCallFailure
starThreshClearCSCFSvcTotalCallFailure
starThreshCSCFSvcErrorNoResource
starThreshClearCSCFSvcErrorNoResource
starThreshCSCFSvcErrorTcp
starThreshClearCSCFSvcErrorTcp
starThreshCSCFSvcErrorPresence
starThreshClearCSCFSvcErrorPresence
starThreshCSCFSvcErrorRegAuth
starThreshClearCSCFSvcErrorRegAuth
starThreshContFiltRating
starThreshClearContFiltRating
starThreshContFiltBlock
starThreshClearContFiltBlock
starThreshCDRFileSpace
starThreshClearCDRFileSpace
starThreshEDRFileSpace
starThreshClearEDRFileSpace
starThreshPDIFCurrSess
starThreshClearPDIFCurrSess
starThreshPDIFCurrActSess
starThreshClearPDIFCurrActSess
starThreshCDRFlowControl
starThreshSGSNSessions
starThreshClearSGSNSessions
starThreshPerServiceSGNSessions
starThreshClearPerServiceSGNSessions
starThreshSGSNPdpSessions
starThreshClearSGSNPdpSessions
starThreshPerServiceSGSNPdpSessions
starThreshClearPerServiceSGSNPdpSessions
starThreshClearCDRFlowControl
starThreshASNGWSessTimeout
starThreshClearASNGWSessTimeout
starThreshASNGWSessSetupTimeout
starThreshClearASNGWSessSetupTimeout
starThreshASNGWAuthFail
starThreshClearASNGWAuthFail
starThreshASNGWMaxEAPRetry
starThreshClearASNGWMaxEAPRetry
starThreshASNGWEntryDenial
starThreshClearASNGWEntryDenial
starThreshASNGWHandoffDenial
starThreshClearASNGWHandoffDenial
starThreshPHSGWSessTimeout
starThreshClearPHSGWSessTimeout
starThreshPHSGWSessSetupTimeout
starThreshClearPHSGWSessSetupTimeout
starThreshPHSGWAuthFail
starThreshClearPHSGWAuthFail
starThreshPHSGWMaxEAPRetry
starThreshClearPHSGWMaxEAPRetry
starThreshPHSGWNWEntryDenial
starThreshClearPHSGWNWEntryDenial
starThreshPHSGWHandoffDenial
starThreshClearPHSGWHandoffDenial
starThreshMeasuredInt
starThreshASNGWSessions
starThreshClearASNGWSessions
starThreshPerServiceASNGWSessions
starThreshClearPerServiceASNGWSessions
starThreshPHSPCSessSetupTimeout
starThreshClearPHPCSessionSetupTimeout
starThreshPHPCSessionSleepModeTimeout
starThreshClearPHPCSessionSleepModeTimeout
starThreshPHPCSessionMEntryDenial
starThreshClearPHPCSessionMEntryDenial
starThreshSGWSessions
starThreshClearSGWSessions
starThreshPGWSessions
starThreshClearPGWSessions
starThreshLMASessions
starThreshClearLMASessions
starThreshMAGSessions
starThreshClearMAGSessions
starThreshHSGWSessions
starThreshClearHSGWSessions
starThreshHNBGWHenbSessions
starThreshClearHNBGWHenbSessions
starThreshHNBGWUeSessions
starThreshClearHNBGWUeSessions
starThreshHNBGW glColor\(\text{Messages}\)
starThreshClearHNBGW glColor\(\text{Messages}\)
starThreshPHSGWEPAPOLAuthFailure
starThreshClearPHSGWEPAPOLAuthFailure
starThreshPHSGWMaxEAPOLRetry
starThreshClearPHSGWMaxEAPOLRetry
starThreshFWDosAttack
starThreshClearFWDosAttack
starThreshFWDropPacket
starThreshClearFWDropPacket
starThreshFWDenyRule
starThreshClearFWDenyRule
starThreshFWNoRule
starThreshClearFWNoRule
starSRPConnDown
starSRPConnUp
starThreshNATPortChunks
starThreshClearNATPortChunks
starThreshClearFWDosAttack
starThreshFWDropPacket
starThreshClearFWDropPacket
starThreshGPRSSessions
starThreshClearGPRSSessions
starThreshPerServiceGPRSSessions
starThreshClearPerServiceGPRSSessions
starThreshGPRSPdpSessions
starThreshClearGPRSPdpSessions
starThreshPerServiceGPRSPdpSessions
starThreshClearPerServiceGPRSPdpSessions
starThreshFWDenyRule
starThreshClearFWDenyRule
starThreshFWNooRule
starThreshClearFWNooRule
starThreshBGPRoutes
starThreshClearBGPRoutes
starThreshNPUUtilization
starThreshClearNPUUtilization
starThreshEPDGCurrSess
starThreshClearEPDGCurrSess
starSRPConnDown
starSRPConnUp
starPortDown
starPortUp
starOSPFNeighborDown
starOSPFNeighborFull
starBSReachable
starBSUnreachable
starSystemStartup
starASNPCServiceStart
starASNPCServiceStop
starDiameterIPv6PeerDown
starDiameterIPv6PeerUp
starIPMSServerUnreachable
starIPMSServerReachable
starCertShortLifetime
starCertExpired
starCertValid
starFTPPushFail
starFTPServSwitch
starSDHSectionDown
starSDHSectionUp
starSDHPathHopDown
starSDHPathHopUp
starSDHLopDown
starSDHLopUp
starSDHE1TribUp
starSDHE1TribDown
starSDHFracE1LMIDown
starSDHFracE1LMIUp
starGPRSServiceStart
starGPRSServiceStop
starGPRSNeDown
starGPRSNeUp
starGPRSNSvcDown
starGPRSNSvcUp
starGPRSBSvcDown
starGPRSBSvcUp
starPDGServiceStart,
starPDGServiceStop
starThreshPDGCurrSess
starThreshClearPDGCurrSess,
starThreshPDGCurrActSess,
starThreshClearPDGCurrActSess
starPGWServiceStart
starPGWServiceStop
starSGWServiceStart
starSGWServiceStop
starEGTPServiceStart
starEGTPServiceStop
starLMAServiceStart
starLMAServiceStop
starMAGServiceStart
starMAGServiceStop
starMMEServiceStart
starMMEServiceStop
starHSGWServiceStart
starCPUBusyClear
starCPUMemoryLowClear
starManagerRestart
starConfigurationUpdate
starFNGServiceStart
starFNGServiceStop
starThreshFNGCurrSess
starThreshClearFNGCurrSess
starThreshFNGCurrActSess
starThreshClearFNGCurrActSess
starEgtpcPathFailure
starEgtpcPathFailureClear
starEgtpuPathFailure
starEgtpuPathFailureClear
starServiceLossSPIOClear
starHNBGWServiceStart
starHNBGWServiceStop
starSystemReboot
starHSGWServiceStop
starGPRSServiceStart
starGPRSServiceStop
starGPRSNseDown
starGPRSNseUp
starGPRSNsvcDown
starGPRSNsvcUp
starGPRSBvcDown
starGPRSBvcUp

Object
starTrapObsoleteGroup

Object ID
enterprise.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
target.8164.3.1.7

Description
A collection of objects which are obsolete.

Objects
starRPRegAcceptIntraPDSN
starSlotVoltage1dot5
starSlotVoltage1dot5LowThresh
starSlotVoltage1dot5HighThresh
starSlotVoltage1dot8
starSlotVoltage1dot8LowThresh
starSlotVoltage1dot8High
starSlotVoltage2dot5
starSlotVoltage2dot5LowThresh
starSlotVoltage2dot5HighThresh
starSlotVoltage3dot3
starSlotVoltage3dot3LowThresh
starSlotVoltage3dot3HighThresh
starSlotVoltage5dot0
starSlotVoltage5dot0LowThresh
starSlotVoltage5dot0HighThresh
### enterprise.8164.3.starentMIBCompliances(2)

**Object**

starentMIBCompliances

**Object ID**

enterprise.8164.3.2.1

**Description**

The statement listing compliant mandatory groups.

**Required Groups**

- starChassisGroup
- starAlertGroup
- starAlertTrapGroup
- starTrapGroup

**Optional Groups**

- starTrapObsoleteGroup
- starChassisObsoleteGroup
The following figure illustrates the hierarchical structure of the management information base (MIB) for the Content Filtering (CF) service application.
Figure 2. Content Filtering Application MIB Tree

```
iso.org.dod.internet.private.enterprise
(1.3.6.1.4.1)

starentMIB
(8164)

starentCFMIB
(100)

starCF
COMMONMIB(1)

Objects(1)  Traps(2)  Conformances(3)

Groups(1)  Compliances(2)

starCF
CDPMIB(2)

starCF
REMIB(3)

starCF
CCIMIB(4)

starCF
EMSMIB(5)

starCF
MCRDBSMIB(6)

Objects(1)  Traps(2)  Conformances(3)

Groups(1)  Compliances(2)

Objects(1)  Traps(2)  Conformances(3)

Groups(1)  Compliances(2)

Objects(1)  Traps(2)  Conformances(3)

Groups(1)  Compliances(2)

Objects(1)  Traps(2)  Conformances(3)

Groups(1)  Compliances(2)
```
MIB Textual Conventions

This section defines the objects, traps and conformances for the CF MIB.

**enterprise.8164.100.starCFCOMMONMIB(1)**

**enterprise.8164.100.1.starCFCOMMONMIBObjects(1)**

<table>
<thead>
<tr>
<th>Object</th>
<th>starCfNotifRaisedTime</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.100.1.1.1</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>This object indicates the time when this notification was generated.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>TimeStamp</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>Read-Only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starCfThresholdConfigured</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.100.1.1.2</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>This object indicates the current threshold value</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>DisplayString (size (1..10))</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>Read-Only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starCfThresholdMeasured</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.100.1.1.3</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>This object indicates the current threshold value.</td>
</tr>
</tbody>
</table>
Syntax
DisplayString (size (1..10))

Access
Read-Only

Object
starCfIPAddr

Object ID
enterprise.8164.100.1.1.4

Description
The object indicates the IP address

Syntax
InetAddress

Access
Read-Only

Object
starCfNotifInfo

Object ID
enterprise.8164.100.1.1.5

Description
A textual description of CF 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

enterprise.8164.100.1.starCFCOMMONMIBTraps(2)

None for this release

enterprise.8164.100.1.starCFCOMMONMIBConformances(3)

enterprise.8164.100.1.3.starCFCOMMONMIBGroups(1)

Object
starCFCOMMONNotifMgmtGroup
**Object ID**

enterprise.8164.100.1.3.1.1

**Description**

A collection of objects related with notification management on CF-Common.

**Objects**

starCfNotifRaisedTime
starCfThresholdConfigured
starCfThresholdMeasured
starCfIPAddr
starCfNotifInfo

**enterprise.8164.100.1.3.starCFCOMMONMIBCompliances(2)**

**Object**

starCFCOMMONMIBCompliances

**Object ID**

enterprise.8164.100.1.3.2.1

**Description**

The compliance statements for entities which implement the STARENT CF COMMON MIB.

**Objects**

starCFCOMMONNotifMgmtGroup

**enterprise.8164.100.starCFCDPMIB(2)**

**enterprise.8164.100.2.starCFCDPMIBObjects(1)**

None for this release

**enterprise.8164.100.2.starCFCDPMIBTraps(2)**

**Object**

starCfCdpStart

**Object ID**

enterprise.8164.100.2.2.1

**Description**

This notification is generated when CDP server starts and CF-CDP server process comes up.

**Objects**

starCfNotifRaisedTime
starCfNotifInfo
Object
  starCfCdpStop

Object ID
  enterprise.8164.100.2.2.2

Description
  This notification is generated when CDP server stops and CF-CDP server process goes down.

Objects
  starCfNotifRaisedTime
  starCfNotifInfo

Object
  starCfCdpRestart

Object ID
  enterprise.8164.100.2.2.3

Description
  This notification is generated when CDP server restarts and CF-CDP server process again comes up.

Objects
  starCfNotifRaisedTime
  starCfNotifInfo

Object
  starCfCdpApiOpFailed

Object ID
  enterprise.8164.100.2.2.4

Description
  This notification is generated by CF-CDP when the CFLIB API Operation fails.

Objects
  starCfNotifRaisedTime
  starCfParseFileName
  starCfNotifInfo

Object
  starCfCdpApiVerError

Object ID
  enterprise.8164.100.2.2.5

Description
  Notification generated by CF-CDP when the CFLIB DB Version Error occurs.
Objects
starCfNotifRaisedTime
starCfParseFileName
starCfNotifInfo

Object
starCfCdpThreshCPUUtilization

Object ID
text:
enterprise.8164.100.2.2.6

Description
This notification is generated by CF-System when the CDP process’s CPU usage threshold exceeds the configured limit. starCfThresholdMeasured indicates the current CDP process’s CPU usage in percentage.

Objects
starCfNotifRaisedTime starCfThresholdMeasured

Object
starCfCdpClearThreshCPUUtilization

Object ID
text:
enterprise.8164.100.2.2.7

Description
This notification is generated by CF-System when the CDP process’s CPU usage comes back to below the threshold limit. starCfThresholdMeasured indicates the current CDP process’s CPU usage in percentage.

Objects
starCfNotifRaisedTime
starCfThresholdMeasured

Object
starCfCdpThreshDiskUtilization

Object ID
text:
enterprise.8164.100.2.2.8

Description
This notification is generated by CF-System when the CDP process’s disk usage threshold exceeds the configured limit. starCfThresholdMeasured indicates the current CDP process’s disk usage in percentage.

Objects
starCfNotifRaisedTime
starCfThresholdMeasured

Object
starCfCdpClearThreshDiskUtilization
Object ID
enterprise.8164.100.2.2.9

Description
This notification is generated by CF-System when the CDP process’ disk usage comes back to below the threshold limit. starCfThresholdMeasured indicates the current CDP process’ disk usage in percentage.

Objects
starCfNotifRaisedTime
starCfThresholdMeasured

Object
starCfCdpThreshSwapUtilization

Object ID
enterprise.8164.100.2.2.10

Description
This notification is generated by CF-System when the CDP process’s swap usage threshold exceeds the configured limit. starCfThresholdMeasured indicates the current CDP process’ swap usage in percentage.

Objects
starCfNotifRaisedTime
starCfThresholdMeasured

Object
starCfCdpClearThreshSwapUtilization

Object ID
enterprise.8164.100.2.2.11

Description
This notification is generated by CF-System when the CDP process’s swap usage comes back to below the threshold limit. starCfThresholdMeasured indicates the current CDP process’ swap usage in percentage.

Objects
starCfNotifRaisedTime
starCfThresholdMeasured

Object
starCfCdpProcReportErrWithMsg

Object ID
enterprise.8164.100.2.2.12

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
enterprise.8164.100.2.13

Description
This notification is generated by CFDCM Library when any error other than system error occurs.

Objects
starCfNotifRaisedTime
starCfParseFileName
starCfNotifInfo

enterprise.8164.100.2.starCFCDPMBConformances(3)

enterprise.8164.100.2.3.starCFCDPMBGroups(1)

Object
starCFCDPNotifMgmtGroup

Object ID
enterprise.8164.100.2.3.1.1

Description
A collection of objects related with notification management on CF-CDP.

Objects
starCfParseFileName

Object
starCFCDPNotifGroup

Object ID
enterprise.8164.100.2.3.1.2

Description
A collection of CF-CDP notifications.

Objects
starCfCdpStart
starCfCdpStop
starCfCdpRestart
starCfCDPApiOpFailed
starCfCdpApiVerError
starCfCdpThreshCPUUtilization
starCfCdpClearThreshCPUUtilization
starCfCdpThreshDiskUtilization
starCfCdpClearThreshDiskUtilization
starCfCdpThreshSwapUtilization
starCfCdpClearThreshSwapUtilization
starCfCdpProcReportErrWithMsg,
StarCfCdpProcApiCfdcmErrWithMsg
starCfCdpProcApiPermissionDenied
starCfCdpProcApiInvalidAgrs

enterprise.8164.100.2.3.starCFCDPMICompliances(2)

Object
starCFCDPMICompliance

Object ID
enterprise.8164.100.2.3.2.1

Description
The compliance statements for entities which implement the STARENT CF-CDP MIB.

Objects
starCfCdpNotifMgmtGroup
starCfCdpNotifGroup

enterprise.8164.100.starCFREMIB(3)

enterprise.8164.100.3.starCFREMIBObjects(1)

Object
starCfParseFileName

Object ID
enterprise.8164.100.3.1.1

Description
This object indicates the name of the file getting parsed by report engine.
Syntax
DisplayString (SIZE (1..64))

Access
Read-only

enterprise.8164.100.3.starCFREMIBTraps(2)

Object
starCfReStart

Object ID
enterprise.8164.100.3.2.1

Description
This notification is generated when Report Engine starts and CF-RE process comes up.

Objects
starCfNotifRaisedTime

Object
starCfReStop

Object ID
enterprise.8164.100.3.2.2

Description
This notification is generated when Report Engine stops and CF-RE process goes down.

Objects
starCfNotifRaisedTime

Object
starCfReRestart

Object ID
enterprise.8164.100.3.2.3

Description
This notification is generated when Report Engine restarts and CF-RE process restart is detected.

Objects
starCfNotifRaisedTime

Object
starCfReFileParsingAborted

Object ID
enterprise.8164.100.3.2.4
Description
This notification is generated by CF-RE when Report Engine fails to parse EDR.

Objects
starCfNotifRaisedTime
starCfParseFileName

Object
starCfReThreshCPUUtilization

Object ID
tnterprise.8164.100.3.2.5

Description
This notification is generated by CF-System when the Report Engine process’s CPU usage threshold exceeds the configured limit. starCfThresholdMeasured indicates the current Report Engine process’ CPU usage in percentage.

Objects
starCfNotifRaisedTime
starCfThresholdMeasured

Object
starCfReClearThreshCPUUtilization

Object ID
tnterprise.8164.100.3.2.6

Description
This notification is generated by CF-System when the Report Engine process’s CPU usage comes back to below the threshold limit. starCfThresholdMeasured indicates the current Report Engine process’ CPU usage in percentage.

Objects
starCfNotifRaisedTime
starCfThresholdMeasured

Object
starCfReThreshDiskUtilization

Object ID
tnterprise.8164.100.3.2.7

Description
This notification is generated by CF-System when the Report Engine process’s disk usage threshold exceeds the configured limit. starCfThresholdMeasured indicates the current Report Engine process’ disk usage in percentage.

Objects
starCfNotifRaisedTime
starCfThresholdMeasured
### Object

**starCfReClearThreshDiskUtilization**

**Object ID**
enterprise.8164.100.3.2.8

**Description**
This notification is generated by CF-System when the Report Engine process’s disk usage comes back to below the threshold limit. *starCfThresholdMeasured* indicates the current Report Engine process’s disk usage in percentage.

**Objects**
- starCfNotifRaisedTime
- starCfThresholdMeasured

### Object

**starCfDbThreshCPUUtilization**

**Object ID**
enterprise.8164.100.3.2.9

**Description**
This notification is generated by CF-System when the Postgres process’s CPU usage threshold exceeds the configured limit. *starCfThresholdMeasured* indicates the current Postgres process’s CPU usage in percentage.

**Objects**
- starCfNotifRaisedTime
- starCfThresholdMeasured

### Object

**starCfDbClearThreshCPUUtilization**

**Object ID**
enterprise.8164.100.3.2.10

**Description**
This notification is generated by CF-System when the Postgres process’s CPU usage comes back to below the threshold limit. *starCfThresholdMeasured* indicates the current Postgres process’s CPU usage in percentage.

**Objects**
- starCfNotifRaisedTime
- starCfThresholdMeasured

### Object

**starCfDbThreshDiskUtilization**

**Object ID**
enterprise.8164.100.3.2.11
Description
This notification is generated by CF-System when the Postgres process’s disk usage threshold exceeds the configured limit. starCfThresholdMeasured indicates the current Postgres process’s disk usage in percentage.

Objects
starCfNotifRaisedTime
starCfThresholdMeasured

Object
starCfDbClearThreshDiskUtilization

Object ID
enterprise.8164.100.3.2.12

Description
This notification is generated by CF-System when the Postgres process’s disk usage comes back to below the threshold limit. starCfThresholdMeasured indicates the current Postgres process’s disk usage in percentage.

Objects
starCfNotifRaisedTime starCfThresholdMeasured

enterprise.8164.100.3.starCFREMIBConformances(3)

enterprise.8164.100.3.3.starCFREMIBGroups(1)

Object
starCFRENotifMgmtGroup

Object ID
enterprise.8164.100.3.3.1.1

Description
A collection of objects related with notification management on CF Report Engine.

Objects
starCfParseFileName

Object
starCFRENotifGroup

Object ID
enterprise.8164.100.3.3.1.2

Description
A collection of CF-RE notifications.

Objects
starCfReStart
starCfReStop
starCfReRestart
starCfReFileParsingAborted
starCfReThreshCPUUtilization
starCfReClearThreshCPUUtilization
starCfReThreshDiskUtilization
starCfReClearThreshDiskUtilization
starCfDbThreshCPUUtilization
starCfDbClearThreshCPUUtilization
starCfDbThreshDiskUtilization
starCfDbClearThreshDiskUtilization

enterprise.8164.100.3.3.starCFREMIBCompliances(2)

Object
starCFREMIBCompliance

Object ID
enterprise.8164.100..3.3.2.1

Description
The compliance statements for entities which implement the STARENT CF-RE MIB.

Objects
starCFRENtifMgmtGroup
starCFRENtifGroup

enterprise.8164.100.starCFCCIMIB(4)

enterprise.8164.100.4.starCFCCIMIBObjects(1)

None for this release.

enterprise.8164.100.4.starCFCCIMIBTraps(2)

Object
starCfCciApplicationStart

Object ID
enterprise.8164.100.4.2.1

Description
This notification is generated by CF when Customer Care Interface application starts.
Objects
starCfNotifRaisedTime
starCfIPAddr
starCfNotifInfo

Object
starCfCciApplicationStop

Object ID
enterprise.8164.100.4.2.2

Description
This notification is generated by CF when Customer Care Interface application stops.

Objects
starCfNotifRaisedTime
starCfIPAddr
starCfNotifInfo

Object
starCfCciCdpServerReachable

Object ID
enterprise.8164.100.4.2.3

Description
The Central Decision Point (CDP) server can be reached. This can be the result of a server startup or a previously unreachable server becoming reachable.

Objects
starCfNotifRaisedTime
starCfIPAddr
starCfNotifInfo

Object
starCfCciCdpServerUnreachable

Object ID
enterprise.8164.100.4.2.4

Description
This notification is generated by CF when Customer Care Interface application is not able to communicate with CDP server.
starCfNotifInfo

Object

starCfCciThreshCpuUtilization

Object ID
enterprise.8164.100.4.2.5

Description
The overall CPU utilization for the CCI application has exceeded for configured threshold value for the current monitoring period. This notification will be generated when the measured value falls below the threshold.

Probable Cause: This is a user configurable threshold.

Objects

starCfNotifRaisedTime
starCfThresholdConfigured
starCfThresholdMeasured
starCfNotifInfo

Object

starCfCciClearThreshCpuUtilization

Object ID
enterprise.8164.100.4.2.6

Description
The threshold condition is now clear.

Objects

starCfNotifRaisedTime
starCfThresholdConfigured
starCfThresholdMeasured
starCfNotifInfo

Object

starCfCciThreshMemoryUtilization

Object ID
enterprise.8164.100.4.2.7

Description
The overall memory utilization for the CCI application has exceeded for configured threshold value for the current monitoring period. This notification will be generated when the measured value falls below the threshold.

Probable Cause: This is a user configurable threshold.

Objects

starCfNotifRaisedTime
starCfThresholdConfigured
starCfThresholdMeasured
starCfNotifInfo

Object
starCfCciClearThreshMemoryUtilization

Object ID
enterprise.8164.100.4.2.8

Description
The threshold condition is now clear.

Objects
starCfNotifRaisedTime
starCfThresholdConfigured
starCfThresholdMeasured
starCfNotifInfo

enterprise.8164.100.4.starCFCCIMIBConformances(3)

enterprise.8164.100.4.3.starCFCCIMIBGroups(1)

Object
starCFCCINotifGroup

Object ID
enterprise.8164.100.4.3.1.1

Description
A collection of CF-CCI notifications.

Objects
starCfCciApplicationStart
starCfCciApplicationStop
starCfCciCdpServerReachable
starCfCciCdpServerUnreachable
starCfCciThreshCpuUtilization
starCfCciClearThreshCpuUtilization
starCfCciThreshMemoryUtilization
starCfCciClearThreshMemoryUtilization

enterprise.8164.100.4.3.starCFCCIMIBCompliances(2)
starCFCCIMIBCompliance

Object ID
enterprise.8164.100.4.3.2.1

Description
The compliance statements for entities which implement the STARENT CF-CCI MIB.

Objects
starCFCCINotifGroup

enterprise.8164.100.starEMSMIB(5)

enterprise.8164.100.5.starEMSMIBObjects(1)
None for this release.

enterprise.8164.100.5.starEMSMIBTraps(2)
None for this release.

enterprise.8164.100.5.starEMSMIBConformances(3)

enterprise.8164.100.5.3.starEMSMIBGroups(1)
None for this release.

enterprise.8164.100.5.3.starEMSMIBCompliances(2)
None for this release.

enterprise.8164.100.starCFMCRDBSMIB(6)

enterprise.8164.100.6.starCFMCRDBSMIBObjects(1)
None for this release.

enterprise.8164.100.6.starCFMCRDBSMIBTraps(2)

Object
starCfMdbProcStart

Object ID
enterprise.8164.100.6.2.1
Description
This notification is generated by CF when MCRDBS server starts. The CF MCRDBS Server process starts.

Objects
- starCfNotifRaisedTime
- starCfNotifInfo

Object
- starCfMdbProcStop

Object ID
enterprise.8164.100.6.2.2

Description
This notification is generated by CF when MCRDBS server stops. CF MCRDBS Server process goes down.

Objects
- starCfNotifRaisedTime
- starCfNotifInfo

Object
- starCfMdbProcDbAbsent

Object ID
enterprise.8164.100.6.2.3

Description
This notification is generated by CF-MCRDBS when the DB needed for conversion is ABSENT.

Objects
- starCfNotifRaisedTime
- starCfParseFileName
- starCfNotifInfo

Object
- starCfMdbProcApiOpFailed

Object ID
enterprise.8164.100.6.2.4

Description
This notification is generated by CF-MCRDBS when the CFLIB API Operation fails.

Objects
- starCfNotifRaisedTime
- starCfParseFileName
- starCfNotifInfo

Object
starCfMdbProcDbParseError

Object ID  
enterprise.8164.100.6.2.5

Description  
This notification is generated by CF-MCRDBS when the Database Merging fails due to Parse Error.

Objects  
starCfNotifRaisedTime  
starCfParseFileName  
starCfNotifInfo

starCfMdbProcMemUsageOverLimit

Object ID  
enterprise.8164.100.6.2.6

Description  
This notification is generated by CF when MCRDBS process's memory usage threshold is exceeded. The starCfThresholdMeasured varbind indicates current MCRDBS process' memory usage value in percentage.

Objects  
starCfNotifRaisedTime  
starCfNotifInfo  
starCfThresholdMeasured

starCfMdbProcMemUsageNormal

Object ID  
enterprise.8164.100.6.2.7

Description  
This notification is generated by CF when MCRDBS process's memory usage threshold is back to normal. The starCfThresholdMeasured varbind indicates current MCRDBS process's memory usage value in percentage.

Objects  
starCfNotifRaisedTime  
starCfNotifInfo  
starCfThresholdMeasured

starCfMdbProcCpuUsageOverLimit

Object ID  
enterprise.8164.100.6.2.8
Description
This notification is generated by CF when MCRDBS process's cpu usage threshold is exceeded. The starCfThresholdMeasured varbind indicates current MCRDBS process's cpu usage value in percentage.

Objects
starCfNotifRaisedTime
starCfNotifInfo
starCfThresholdMeasured

Object
starCfMdbProcCpuUsageNormal

Object ID
enterprise.8164.100.6.2.9

Description
This notification is generated by CF when MCRDBS process's cpu usage threshold is back to normal. The starCfThresholdMeasured varbind indicates current MCRDBS cpu usage value in percentage.

Objects
starCfNotifRaisedTime
starCfNotifInfo
starCfThresholdMeasured

Object
starCfMdbProcDiskUsageOverLimit

Object ID
enterprise.8164.100.6.2.10

Description
This notification is generated by CF when MCRDBS process's disk usage threshold is exceeded. The starCfThresholdMeasured varbind indicates current MCRDBS process's disk usage value in percentage.

Objects
starCfNotifRaisedTime
starCfNotifInfo
starCfThresholdMeasured

Object
starCfMdbProcDiskUsageNormal

Object ID
enterprise.8164.100.6.2.11

Description
This notification is generated by CF when MCRDBS process's disk usage threshold is back to normal. The starCfThresholdMeasured varbind indicates current MCRDBS process's disk usage value in percentage.
Objects
starCfNotifRaisedTime
starCfNotifInfo
starCfThresholdMeasured

Object
starCfMdbProcInvalidFileName

Object ID
enterprise.8164.100.6.2.12

Description
This notification is generated by CF-MCRDBS when it finds a Database having Invalid Name.

Objects
starCfNotifRaisedTime
starCfParseFileName
starCfNotifInfo

Object
starCfMdbProcReportErrWithMsg

Object ID
enterprise.8164.100.6.2.13

Description
This notification is generated by CF-MCRDBS when any system Error is generated.

Objects
starCfNotifRaisedTime
starCfParseFileName
starCfNotifInfo

Object
starCfMdbProcCfdcmErrWithMsg

Object ID
enterprise.8164.100.6.2.14

Description
This notification is generated by CF-MCRDBS when any CF-LIB Error is generated.
starCfMdbProcMcrdbsErrWithMsg

Object ID
enterprise.8164.100.6.2.15

Description
This notification is generated by CF-MCRDBS when MCRDBS Specific Errors are generated.

Objects
starCfNotifRaisedTime
starCfParseFileName
starCfNotifInfo

enterprise8164.100.6.starCFMCRDBSMIBConformances(3)

enterprise8164.100.6.3.starCFMCRDBSMIBGroups(1)

Object
starCFMDBNotifMgmtGroup

Object ID
enterprise.8164.100.6.3.1.1

Description
A collection of objects related with notification management on CF-MCRDBS.

Objects
starCfParseFileName

Object
starCFMDBNotifGroup

Object ID
enterprise.8164.100.6.3.1.2

Description
A collection of CF-MCRDBS notifications.

Objects
starCfMdbProcStart
starCfMdbProcStop
starCfMdbProcDbAbsent
starCfMdbProcApiOpFailed
starCfMdbProcDbParseErrot
starCfMdbProcMemUsageOverLimit
starCfMdbProcMemUsageNormal
starCfMdbProcCpuUsageOverLimit
starCfMdbProcCpuUsageNormal
starCfMdbProcDiskUsageOverLimit
starCfMdbProcDiskUsageNormal
starCfMdbProcInvalidFileName
starCfMdbProcReportErrWithMsg
starCfMdbProcCfdcmErrWithMsg
starCfMdbProcMcrdbsErrWithMsg

enterprise8164.100.6.3.starCFMCRDBSMIBCompliances(2)

Object
  starCFMCRDBSMIBCompliance

Object ID
terprise.8164.100.6.3.2.1

Description
  The compliance statements for entities which implement the STARENT CF-MCRDBS MIB.

Objects
  starCFMDBNotifMgmtGroup
  starCFMDBNotifGroup
Chapter 5
IPMS Application MIB

The following figure illustrates the hierarchical structure of the management information base (MIB) for the IPMS application. IPMS is now part of Mobility Unified Reporting (MUR).

Figure 3. IPMS Application MIB Tree

```
Is0.org.dod.internet.private.enterprise
   (1.3.6.1.4.1)

starentMIB
   (8164)

starIPMSMIB
   (102)

starIPMSMIBObjects
   (1)

starIPMSMIBTraps
   (2)

starIPMSMIBConformances
   (3)

starIPMSCompliance
   (1)

starIPMSGroups
   (2)
```
MIB Textual Conventions

This section defines the objects, traps and conformances for the IPMS MIB.

enterprise.8164.102.starIPMSMIBObjects(1)

Object

starIPMSTimeTicks

Object ID

enterprise.8164.102.1.1

Description

This object indicates the time when this notification was generated.

Syntax

TimeStamp

Access

Read-Only

Object

starIPMSComponentName

Object ID

enterprise.8164.102.1.2

Description

This object indicates the name of the IPMS application component.

Syntax

DisplayString

Access

Read-Only

Object

starIPMSTaskInfo

Object ID

enterprise.8164.102.1.3

Description

This object indicates the IPMS process facility name and instance id of the IPMS application.

Syntax

DisplayString
Object

starIPMSPacketLossCnt

Object ID
time.8164.102.1.6

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
time.8164.102.1.6

Description
This object indicates the number of packets detected as lost in the current IPMS process.

Syntax
Unsigned32

Access
Read-only
Object ID
enterprise.8164.102.1.7

Description
This object indicates the total number of packets detected as lost since IPMS process started.

Syntax
Unsigned32

Access
Read-only

Object
starIPMSPDFailureReason

Object ID
enterprise.8164.102.1.8

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
starIPMSPDIDetails

Object ID
enterprise.8164.102.1.9

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
enterprise.8164.102.1.10

Description
This object indicates the name of the event source of IPMS processes.

Syntax
DisplayString

Access
Read-only

Object
starIPMSAttribute

Object ID
enterprise.8164.102.1.11

Description
This object indicates the name of the IPMS attributes.

Syntax
DisplayString

Access
Read-only

Object
starIPMSResourceType

Object ID
enterprise.8164.102.1.12

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)
### starIPMSResourceInfoState

**Object ID**
enterprise.8164.102.1.13

**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)

### starIPMSResourceCurrentValue

**Object**
starIPMSResourceCurrentValue
Object ID

enterprise.8164.102.1.14

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

enterprise.8164.102.1.15

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

enterprise.8164.102.1.16

Description

This object indicates the name of the IPMS peer server.

Syntax

DisplayString

Access

Read-only

Object

starIPMSPeerIP

Object ID

enterprise.8164.102.1.17
Description
This object indicates the IP address of the IPMS peer server.

Syntax
DisplayString

Access
Read-only

Object
starIPMSPeerPort

Object ID
text.

Description
This object indicates the port number of the IPMS server peer.

Syntax
DisplayString

Access
Read-only

Object
starIPMSICMPState

Object ID
text.

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
text.
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)

enterprise.8164.102.starIPMSMIBTraps(2)

Object
starIPMSComponentStart

Object ID
enterprise.8164.102.2.1

Description
This notification generated when an IPMS component started successfully.

Objects
starIPMSComponentName

Object
starIPMSComponentStop

Object ID
enterprise.8164.102.2.2

Description
This notification generated when an IPMS component stopped or going for shutting down.

Objects
starIPMSComponentName

Object
starIPMSProcessStart

Object ID
enterprise.8164.102.2.3

Description
This notification generated when an IPMS process started/restarted successfully.
Objects  
starIPMSTaskInfo

Object  
starIPMSProcessStartFail

Object ID  
enterprise.8164.102.2.4

Description  
This notification generated when an IPMS process failed to start/restart.

Objects  
starIPMSCComponentName  
starIPMSProcessMaxRestartCnt  
starIPMSTaskInfo  
starIPMSProcessRestartWaitTime

Object  
starIPMPacketLossThreshold

Object ID  
enterprise.8164.102.2.5

Description  
This notification generated when maximum packet loss count from event source reached the threshold limit.

Objects  
starIPMSTaskInfo  
starIPMSEventSource  
starIPMPacketLossCnt  
starIPMSTotalPacketLossCnt

Object  
starIPMSDPIFail

Object ID  
enterprise.8164.102.2.6

Description  
This notification generated when deep packet inspection (DPI) has been detected.

Objects  
starIPMSTaskInfo  
starIPMSEventSource  
starIPMSAttribute  
starIPMSDPIFailureReason
starIPMSDPIDetails

Object
  starIPMSThresholdExceed

Object ID
  enterprise.8164.102.2.7

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
  enterprise.8164.102.2.8

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
  enterprise.8164.102.2.9

Description
  This notification generated when IPMS Server/Query Server peer changes its state.

Objects
  starIPMSComponentName
starIPMSPeerName
starIPMSPeerIP
starIPMSPeerPort
starIPMSICMPState
starIPMSCORBAState

enterprise.8164.102.starIPMSMIBConformances(3)

enterprise.8164.102.3.starIPMSMIBCompliances(1)
  Object
  starIPMSMIBCompliance

Object ID
enterprise.8164.102.3.1.1

Description
The compliance statements for entities which implement the STARENT IPMS MIB.

Objects
starIPMSObjectGroup
starIPMSNotifGroup

enterprise.8164.102.3.starIPMSMIBGroups(2)
  Object
  starIPMSObjectGroup

Object ID
enterprise.8164.102.3.2.1

Description
This group is a collection of objects related with notification management on IPMS.

Objects
starIPMSTimeTicks
starIPMSCompName
starIPMSTaskInfo
starIPMSPMaxRestartCnt
starIPMSPRRestartWaitTime
starIPMSPacketLossCnt
starIPMSTotalPacketLossCnt
starIPMSSPFI

Cisco ASR 5x00 Series SNMP MIB Reference
starIPMSDPIDetails
starIPMSEventSource
starIPMSAttribute
starIPMSResourceType
starIPMSResourceInfoState
starIPMSResourceCurrentValue
starIPMSResourceConfThreshold
starIPMSPeerName
starIPMSPeerIP
starIPMSPeerPort
starIPMSICMPState
starIPMSCORBAState

Object

starIPMSNotifGroup

Object ID
enterprise.8164.102.3.2.2

Description
This group is a collection of notifications for IPMS management.

Objects
starIPMSCComponentStart
starIPMSCComponentStop
starIPMSProcessStart
starIPMSProcessStartFail
starIPMSPacketLossThreshold
starIPMSDPIDFail
starIPMSThresholdExceed
starIPMSThresholdClear
starIPMSPeerStateChange
Chapter 6
LESS Application MIB

The following figure illustrates the hierarchical structure of the management information base (MIB) for the Local External Storage Server (LESS) application.

Figure 4. LESS Application MIB Tree
MIB Textual Conventions

This section defines the objects, traps and conformances for the Local External Storage Server MIB.

enterprise.8164.101.starLESSMIBObjects(1)

Object

starLESSNotifRaisedTime

Object ID
enterprise.8164.101.1.1

Description
This object indicates the time when this notification was generated. This will be current system time in seconds.

Syntax
Integer32

Access
Accessible-for-notify

Object

starLESSNotifInfo

Object ID
enterprise.8164.101.1.2

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
enterprise.8164.101.1.3

Description
This object indicates the L-ESS Application Instance number.
Syntax
Integer32

Access
Accessible-for-notify

Object
starLESSNodeName

Object ID
enterprise.8164.101.1.4

Description
This object indicates the L-ESS Application node name.

Syntax
DisplayString (SIZE (1..64))

Access
Accessible-for-notify

Object
starLESSApplicationType

Object ID
enterprise.8164.101.1.5

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
enterprise.8164.101.1.6
Description
This object indicates the configured value of a thresholded parameter.

Syntax
Integer32

Access
Accessible-for-notify

Object
starLESSThreshMeasuredInt

Object ID
enterprise.8164.101.1.7

Description
This object indicates the measured value of a thresholded parameter.

Syntax
Integer32

Access
Accessible-for-notify

Object
starLESSRuleBaseName

Object ID
enterprise.8164.101.1.8

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
enterprise.8164.101.1.9

Description
This object indicates the name of the STX.

Syntax
DisplayString (SIZE (1..64))
Access
Accessible-for-notify

Object
starLESSStartofMissedRange

Object ID
terprise.8164.101.1.10

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
terprise.8164.101.1.11

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
terprise.8164.101.1.12

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
enterprise.8164.101.1.13

Description
This object indicates the name of the STX.

Syntax
DisplayString (SIZE (1..64))

Access
Accessible-for-notify

Object
starLessMountPoint

Object ID
enterprise.8164.101.1.14

Description
Mount point where disk is mounted

Syntax
DisplayString(SIZE(1..64))

Access
Accessible for Notify.

Object
starLESSHostName

Object ID
enterprise.8164.101.1.15

Description
L-ESS Application source/destination name.

Syntax
DisplayString(SIZE(1..64))

Access
Accessible for Notify.

Object
starLESSPath

Object ID
enterprise.8164.101.1.16

Description
L-ESS Application source/destination path.
Syntax
DisplayString(SIZE(1..255))

Access
Accessible for Notifye

Object
starLESSTerminationTime

Object ID
enterprise.8164.101.1.17

Description
This object indicates the time when this notification was generated. This will be current system time in seconds.

Syntax
DisplayString(SIZE(1..32))

Access
Accessible for Notify.

Object
starLESSPscNo

Object ID
enterprise.8164.101.1.18

Description
PSC instance No.

Syntax
DisplayString(SIZE(1..32))

Access
Accessible for Notify.

enterprise.8164).101.starLESSMIBTraps(2)

Important: Traps1-16 will not be used in generic LESS

Object
starLESSApplicationStart

Object ID
enterprise.8164.101.2.1

Description
This notification is generated when L-ESS application has started.
**Objects**

starLESSNotifRaisedTime
starLESSNodeName
starLESSInstance
starLESSApplicationType

**Object**

starLESSApplicationReStart

**Object ID**

enterprise.8164.101.2.2

**Description**

This notification is generated when L-ESS application has restarted.

**Objects**

starLESSNotifRaisedTime
starLESSNodeName
starLESSInstance
starLESSApplicationType

**Object**

starLESSApplicationStop

**Object ID**

enterprise.8164.101.2.3

**Description**

This notification is generated when L-ESS application has stopped.

**Objects**

starLESSNotifRaisedTime
starLESSNodeName
starLESSInstance
starLESSApplicationType
starLESSNotifInfo

**Object**

starLESSApplicationTerminated

**Object ID**

enterprise.8164.101.2.4

**Description**

This notification is generated when L-ESS application has been terminated.
Objects
starLESSNotifRaisedTime
starLESSNodeName
starLESSInstance
starLESSApplicationType

Object
starLESSPullIntervalMissed

Object ID
text.8164.101.2.5

Description
This notification is generated when L-ESS application has missed the pull interval.

Objects
starLESSNotifRaisedTime
starLESSNodeName
starLESSInstance

Object
starLESSThreshDiskUsage

Object ID
text.8164.101.2.6

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
text.8164.101.2.7

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
enterprise.8164.101.2.8

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
starLESSEndofMissedRange
starLESSStartofMissedRange
starLESSNotifInfo

Object

starLESSRemoteConnectionFail

Object ID
enterprise.8164.101.2.9

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
enterprise.8164.101.2.10

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
enterprise.8164.101.2.11

Description
This notification is generated when L-ESS application fails to transfer a 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
starLESSFileTransferComplete

**Object ID**
enterprise.8164.101.2.12

**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
starLESSTargetHostName
starLESSFileType

---

starLESSThreshPendingFiles

**Object ID**
enterprise.8164.101.2.13

**Description**
This notification is generated when total pending files for this host are beyond the 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

---

starLESSThreshClearPendingFiles
Object ID
enterprise.8164.101.2.14

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 `starLESSThresholdPendingFiles` 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`
- `starLESSThresholdMeasuredInt`
- `starLESSThresholdInt`

**Object**
- `starLESSNewHostFound`

Object ID
enterprise.8164.101.2.15

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
enterprise.8164.101.2.16

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

**Important:** The following are traps for Generic LESS

**Object**

- starGenericLESSApplicationStart

**Object ID**

enterprise.8164.101.2.17

**Description**

L-ESS application has started.

**Objects**

- starLESSNotifRaisedTime
- starLESSNodeName

**Object**

- starGenericLESSApplicationReStart

**Object ID**

enterprise.8164.101.2.18

**Description**

L-ESS application has restarted.

**Objects**

- starLESSNotifRaisedTime
- starLESSNodeName

**Object**

- starGenericLESSApplicationStop

**Object ID**

enterprise.8164.101.2.19

**Description**

L-ESS application has stopped.

**Objects**

- starLESSNotifRaisedTime
starLESSNodeName
starLESSNotifInfo

Object  
starGenericLESSApplicationTerminated

Object ID  
enterprise.8164.101.2.20

Description  
L-ESS application has been terminated.

Objects  
starLESSNotifRaisedTime
starLESSNodeName
starLESSTerminationTime

Object  
starGenericLESSPullIntervalMissed

Object ID  
enterprise.8164.101.2.21

Description  
L-ESS application has missed a pull interval.

Objects  
starLESSNotifRaisedTime
starLESSNodeName
starLESSHostName
starLESSPath

Object  
starGenericLESSThreshDiskUsage

Object ID  
enterprise.8164.101.2.22

Description  
Total Disk space used is beyond configured threshold.

Probable Cause: This is a user configurable threshold.

Clear Condition: A starLESSGenericThreshClearDiskUsage notification will be generated when the measured value falls below the configured threshold.

Objects  
starLESSNotifRaisedTime
starLESSNodeName
starLESSThreshMeasuredInt
starLESSThreshInt
starLESSMountPoint

Object
starGenericLESSThreshClearDiskUsage

Object ID
enterprise.8164.101.2.23

Description
Total disk used is now below configured threshold. Threshold condition is now clear.

Objects
starLESSNotifRaisedTime
starLESSNodeName
starLESSThreshMeasuredInt
starLESSMountPoint

Object
starGenericLESSPullIntervalMissed

Object ID
enterprise.8164.101.2.24

Description
L-ESS application has missed pulling files from STX.

Probable Cause: File at STX side has been deleted before LESS had a chance of 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
starLESSStartofMissedRange
starLESSEndofMissedRange
starLESSRuleBaseName
starLESSPscNo
starLESSHostName
starLESSSTXName
starLESSPath
starLESSNotifInfo

Object
starGenericLESSRemoteConnectionFail

Object ID
enterprise.8164.101.2.25

Description
LESS 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.

Objects
starLESSNotifRaisedTime
starLESSNodeName
starLESSHostName
starLESSRemoteHostName
starLESSNotifInfo

Object
starGenericLESSRemoteConnectionEstablished

Object ID
enterprise.8164.101.2.26

Description
LESS application is now able to set up the connection with remote host.

Probable Cause: Connection established with remote host.

Objects
starLESSNotifRaisedTime
starLESSNodeName
starLESSHostName
starLESSRemoteHostName

Object
starGenericLESSFileTransferFail

Object ID
enterprise.8164.101.2.27

Description
LESS application is failing to transfer a file.

Probable Cause: This trap could be raised if pull or push process fails to transfer files continuously. Reasons of this failure could be network errors, disk space unavailable at destination, destination directory unavailable etc.

Clear Condition: When succesful file transfer begins.
**Condition Clear Alarm:** Clear alarm for this notification is `starLESSGenericFileTransferComplete`.

**Objects**
- `starLESSNotifRaisedTime`
- `starLESSNodeName`
- `starLESSHostName`
- `starLESSPath`
- `starLESSNotifInfo`

**Object**
- `starGenericLESSFileTransferComplete`

**Object ID**
`enterprise.8164.101.2.28`

**Description**
LESS application is now able to transfer file.

**Probable Cause:** The problems making LESS unable to transfer a file have resolved and pull or push process has now restarted file transfer.

**Objects**
- `starLESSNotifRaisedTime`
- `starLESSNodeName`
- `starLESSHostName`
- `starLESSPath`

**Object**
- `starGenericLESSThreshPendingFiles`

**Object ID**
`enterprise.8164.101.2.29`

**Description**
Total pending files for this host are beyond configured threshold.

**Probable Cause:** This is a user configurable threshold. The `starLESSGenericThreshPendingFiles` 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.

**Objects**
- `starLESSNotifRaisedTime`
- `starLESSNodeName`
- `starLESSSTXName`
- `starLESSPath`
- `starLESSThreshMeasuredInt`
- `starLESSThreshInt`
## starGenericLESSThreshClearPendingFiles

**Object ID** enterprise.8164.101.2.30

**Description**
Total pending files for this host are now below configured threshold.

**Probable Cause:** This is a user configurable threshold.

**Condition Clear Alarm:** The `starLESSGenericThreshPendingFiles` 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
- starLESSSTXName
- starLESSPath
- starLESSThreshMeasuredInt
- starLESSThreshInt

## starGenericLESSNewHostFound

**Object ID** enterprise.8164.101.2.31

**Description**
LESS has detected addition of host.

**Probable Cause:** Operator has added host in L-ESS from which files should be pulled. Or the operator added a new destination to which files should be transferred.

**Objects**
- starLESSNotifRaisedTime
- starLESSNodeName
- starLESSHostName
- starLESSPath

## starGenericLESSHostRemoved

**Object ID** enterprise.8164.101.2.32

**Description**
LESS has detected removal of existing host.
**Probable Cause:** Operator has removed existing host in L-ESS from which LESS was already pulling files. Or the operator removed the destination to which LESS was transferring files

**Objects**
- starLESSNotifRaisedTime
- starLESSNodeName
- starLESSHostName
- starLESSPath

**Object**
- starGenericLESSHostEnabled

**Object ID**
enterprise.8164.101.2.33

**Description**
L-ESS has detected that host is enabled.

**Probable Cause:** Operator has enabled a host in L-ESS from which files should be pulled. Or enabled the destination to which files should be transferred

**Objects**
- starLESSNotifRaisedTime
- starLESSNodeName
- starLESSHostName
- starLESSPath

**Object**
- starGenericLESSHostDisabled

**Object ID**
enterprise.8164.101.2.34

**Description**
L-ESS has disabled existing host.

**Probable Cause:** Operator has enabled the existing host in L-ESS from which files should be pulled. Or disabled the destination to which files were being transferred

**Objects**
- starLESSNotifRaisedTime
- starLESSNodeName
- starLESSHostName
- starLESSPath

**Object**
- starGenericLESSProcessFailure
Object ID
enterprise.8164.101.2.35

Description
L-ESS has detected process failure.

Objects
starLESSNotifRaisedTime
starLESSNodeName
starLESSHostName
starLESSPath
starLESSNotifInfo

Object
starGenericLESSProcessStarted

Object ID
enterprise.8164.101.2.36

Description
L-ESS has detected that the process has started.

Objects
starLESSNotifRaisedTime
starLESSNodeName
starLESSHostName
starLESSPath
starLESSNotifInfo

enterprise.8164.101.starLESSConformances(3)

enterprise.8164.101.3.starLESSMIBGroups(1)

Object
starLESSNotifMgmtGroup

Object ID
enterprise.8164.101.3.1.1

Description
This group is a collection of objects related with notification management on LESS.

Objects
starLESSNotifRaisedTime
starLESSNotifInfo
starLESSInstance
starLESSNodeName
starLESSApplicationType
starLESSThreshMeasuredInt
starLESSThreshInt
starLESSRuleBaseName
starLESSSTXName
starLESSStartofMissedRange
starLESSEndofMissedRange
starLESSFileType
starLESSRemoteHostName
starLESSMountPoint
starLESSHostName
starLESSPath
starLESSTerminationTime

Object

starLESSNotifGroup

Object ID

enterprise.8164.101.3.1.2

Description

This group is a collection of notifications for LESS management.

Objects

starLESSApplicationStart
starLESSApplicationReStart
starLESSApplicationStop
starLESSApplicationTerminated
starLESSPullIntervalMissed
starLESSThreshDiskUsage
starLESSThreshClearDiskUsage
starLESSFileMissed
starLESSRemoteConnectionFail
starLESSRemoteConnectionEstablished
starLESSFileTransferFail
starLESSFileTransferComplete
starLESSThreshPendingFiles
starLESSThreshClearPendingFiles
starLESSNewHostFound
starLESSHostRemoved
starGenericLESSApplicationStart
starGenericLESSApplicationReStart
starGenericLESSApplicationStop
starGenericLESSApplicationTerminated
starGenericLESSPullIntervalMissed
starGenericLESSThreshDiskUsage
starGenericLESSThreshClearDiskUsage
starGenericLESSFileMissed
starGenericLESSRemoteConnectionFail
starGenericLESSRemoteConnectionEstablished
starGenericLESSFileTransferFail
starGenericLESSFileTransferComplete
starGenericLESSThreshPendingFiles
starGenericLESSThreshClearPendingFiles
starGenericLESSNewHostFound
starGenericLESSHostRemoved

**enterprise.8164.101.3.starLESSMIBCompliances(2)**

<table>
<thead>
<tr>
<th>Object</th>
<th>starLESSMIBCompliances</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.101.3.2.1</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The compliance statements for entities which implement the STARENT LESS MIB.</td>
</tr>
<tr>
<td><strong>Mandatory Groups</strong></td>
<td>starLESSNotifMgmtGroup</td>
</tr>
<tr>
<td></td>
<td>starLESSNotifGroup</td>
</tr>
</tbody>
</table>
Chapter 7
MUR Application MIB

The following figure illustrates the hierarchical structure of the management information base (MIB) for the Mobile Unified Reporting (MUR) application.

Figure 5. MUR Application MIB Tree
# MIB Textual Conventions

This section defines the objects, traps and conformances for the MUR MIB.

**enterprise.8164.103.starMURMIBObjects(1)**

<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.103.1.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>This object indicates configured value of a thresholded parameter.</td>
</tr>
<tr>
<td>Syntax</td>
<td>StarMURFloatValue</td>
</tr>
<tr>
<td>Access</td>
<td>read-only</td>
</tr>
</tbody>
</table>

**starMURThreshConfigured**

<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.103.1.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>This object indicates measured value of a thresholded parameter.</td>
</tr>
<tr>
<td>Syntax</td>
<td>StarMURFloatValue</td>
</tr>
<tr>
<td>Access</td>
<td>read-only</td>
</tr>
</tbody>
</table>

**starMURDiskPath**

<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.103.1.3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Disk path to be monitored.</td>
</tr>
<tr>
<td>Syntax</td>
<td>DisplayString (SIZE (1..255))</td>
</tr>
</tbody>
</table>
Access
 accessible-for-notify

Object
 starMURAppIdentifier

Object ID
 enterprise.8164.103.1.4

Description
 Identifier of the MUR application to be monitored.

Syntax
 INTEGER {
    schedulingserver(1)
    postgresserver(2)
    apacheserver(3) }

Access
 accessible-for-notify

Object
 starMURDataIdentifier

Object ID
 enterprise.8164.103.1.5

Description
 Identifier of the MUR data to be monitored.

Syntax
 INTEGER {
    edr(1)
    cfedr(2)
    bulkstats(3)
    httpeddr(4)
    rdp(5) }

Access
 accessible-for-notify

Object
 starMURTskIdentifier

Object ID
 enterprise.8164.103.1.6
Description
Name of the task to be monitored.

Syntax
INTEGER {
edrnormalization(1)
httpedrnormalization(2)
cfedrnormalization(3)
portaggregation(4)
protocolsummary(5)
subscriberaggregationminutely(6)
subscriberaggregationhourly(7)
flowcount(8)
httphostaggregationminutely(9)
httphostaggregationhourly(10)
httpcontentsummary(11) }

Access
accessible-for-notify

Object
starMURGatewayIdentifier

Object ID
enterprise.8164.103.1.7

Description
Identifier of the MUR Gateway to be monitored.

Syntax
Integer32

Access
accessible-for-notify

Object
starMURThreshComparator

Object ID
enterprise.8164.103.1.8

Description
Used as comparator for threshold.

Syntax
INTEGER {
greaterthanequal(1)
lesserthanequal(2) }

Access accessible-for-notify

<table>
<thead>
<tr>
<th>Object</th>
</tr>
</thead>
<tbody>
<tr>
<td>starMURKPI</td>
</tr>
</tbody>
</table>

Object ID enterprise.8164.103.1.9

<table>
<thead>
<tr>
<th>Object</th>
</tr>
</thead>
<tbody>
<tr>
<td>starMURKPITable</td>
</tr>
</tbody>
</table>

Object ID enterprise.8164.103.1.9.1

Description A table containing information of KPI alarms.

Syntax SEQUENCE OF StarMURKPIEntry

Access not-accessible

<table>
<thead>
<tr>
<th>Object</th>
</tr>
</thead>
<tbody>
<tr>
<td>starMURKPIEntry</td>
</tr>
</tbody>
</table>

Object ID enterprise.8164.103.1.9.1.1

Description Information about a particular KPI.

Syntax StarMURKPIEntry

Access not-accessible

<table>
<thead>
<tr>
<th>Object</th>
</tr>
</thead>
<tbody>
<tr>
<td>starMURGatewayName</td>
</tr>
</tbody>
</table>

Object ID enterprise.8164.103.1.9.1.1.1

Description The object indicates the name of the Chassis.
## starMURKPIName

**Object ID**: enterprise.8164.103.1.9.1.1.2

**Description**: KPI to be monitored.

**Syntax**: DisplayString (SIZE (1..255))

**Access**: accessible-for-notify

## starMUREntityName

**Object ID**: enterprise.8164.103.1.9.1.1.3

**Description**: The object instance of the schema, i.e. CARD-0, CARD-1.

**Syntax**: DisplayString (SIZE (1..64))

**Access**: accessible-for-notify

## starMURThreshConfiguredString

**Object ID**: enterprise.8164.103.1.10

**Description**: This object indicates configured value of a thresholded parameter in string format.

**Syntax**: DisplayString (SIZE (1..32))

**Access**: accessible-for-notify
Object

starMURThreshMeasuredString

Object ID
enterprise.8164.103.1.11

Description
This object indicates measured value of a thresholded parameter in string format.

Syntax
DisplayString (SIZE (1..32))

Access
accessible-for-notify

Object

starMURSFTPMessage

Object ID
enterprise.8164.103.1.12

Description
Reason for failure for SFTP

Syntax
DisplayString (SIZE (1..255))

Access
accessible-for-notify

enterprise.8164.103.starMURMIBTraps(2)

Object

starMURCPUBusy

Object ID
enterprise.8164.103.2.1

Description
MUR application is experiencing high CPU usage. The usage has exceeded an operator-configure value.

Probable Cause: The amount of information being sent to the MUR application is approaching the MUR application's capacity the MUR application has other tasks running on it which are taking CPU time; a problem with the MUR application is causing the CPU to be abnormally busy.

Condition Clear Alarm: This condition is cleared by a starMURCPUNormal notification.

Objects
starMURThreshConfigured
starMURThreshMeasured

Object
  starMURCPUNormal

Object ID
  enterprise.8164.103.2.2

Description
  MUR application's CPU usage has returned to a normal range.

Objects
  starMURThreshConfigured
  starMURThreshMeasured

starMURDiskSpaceLow

Object ID
  enterprise.8164.103.2.3

Description
  MUR application is experiencing low available disk space. The available disk space has gone below an operator-configure value.

Probable Cause: The amount of information being sent to the MUR application is approaching the MUR application's capacity; the MUR application has other information consuming disk space; a problem with the MUR application is causing less disk space to be available then normal.

Condition Clear Alarm: This condition is cleared by a starMURDiskSpaceNormal notification.

Objects
  starMURThreshConfigured
  starMURThreshMeasured
  starMURDiskPath

starMURDiskSpaceNormal

Object ID
  enterprise.8164.103.2.4

Description
  MUR application's available disk space has returned to a normal range.

Objects
  starMURThreshConfigured
  starMURThreshMeasured
  starMURDiskPath
Object
   starMURMemLow

Object ID
   enterprise.8164.103.2.5

Description
   MUR application is experiencing a low memory condition. The available amount of memory has gone below an operator-configure value.

Probable Cause: The MUR application has other tasks consuming memory space; a problem with the MUR application is causing less memory space to be available then normal.

Condition Clear Alarm: This condition is cleared by a starMURMEMNormal notification.

Object
   starMURMemNormal

Object ID
   enterprise.8164.103.2.6

Description
   MUR application's available memory space has returned to a normal range.

Objects
   starMURThreshConfigured
   starMURThreshMeasured

Object
   starMURAppStart

Object ID
   enterprise.8164.103.2.7

Description
   One of the processes in MUR application has been started.

Objects
   starMURApidentifier

Object
   starMURAppStop

Object ID
   enterprise.8164.103.2.8

Description
   One of the processes in MUR application has been stopped.

Objects
   starMURApidentifier
Object

starMURUnProcessedFiles

Object ID

enterprise.8164.103.2.9

Description

MUR application reports that there are too many unprocessed data files. Number of unprocessed data files are greater than an operator-configured value.

Probable Cause: No action has been taken long for the data files received by MUR application.

Condition Clear Alarm: This condition is cleared by a starMURUnProcessedFilesNormal notification.

Object

starMURUnProcessedFilesNormal

Object ID

enterprise.8164.103.2.10

Description

MUR application reports that number of unprocessed data files are less than an operator-configured value.

Objects

starMURThreshConfigured
starMURThreshMeasured
starMURDataIdentifier
starMURGatewayIdentifier

Object

starMURErroneousFiles

Object ID

enterprise.8164.103.2.11

Description

MUR application reports that there are too many erroneous data files. Number of erroneous data files are greater than an operator-configured value.

Probable Cause: Corrupted files.

Objects

starMURThreshConfigured
starMURThreshMeasured
starMURDataIdentifier
starMURGatewayIdentifier

Object

starMURErroneousRecords
Object ID

enterprise.8164.103.2.12

Description
MUR application reports that there are too many erroneous records. Number of erroneous records are greater than an operator-configured value.

Probable Cause
Corrupted records or mismatch of records.

Objects

starMURThreshConfigured
starMURThreshMeasured
starMURDataIdentifier
starMURGatewayIdentifier

Object

starMURRecordProcessingTaskLag

Object ID

enterprise.8164.103.2.13

Description
MUR application reports that one of the data processing task takes more than stipulated time for processing.

Probable Cause
The amount of information being sent to the MUR application is approaching the MUR application's capacity; the MUR application has other tasks running on it which are taking CPU time; a problem with the MUR application

Condition Clear Alarm
This condition is cleared by a starMURRecordProcessingTaskLagNormal notification.

Objects

starMURThreshConfigured
starMURThreshMeasured
starMURTsk1dentifer

Object

starMURRecordProcessingTaskLagNormal

Object ID

enterprise.8164.103.2.14

Description
MUR application's reports that processing time of one of the data processing tasks has returned to a normal range.

Objects

starMURThreshConfigured
starMURThreshMeasured
starMURTsk1dentifer

Object
starMURKPIThreshCritical

Object ID
enterprise.8164.103.2.15

Description
PI threshold Critical alarm indicates for which gateway, KPI and entity the alarm is generated and also its configured and measured threshold value.

Objects
starMURKPIName
starMURThreshComparator
starMURThreshConfiguredString
starMURThreshMeasuredString
starMURGatewayName
starMUREntityName

starMURKPIThreshCriticalClear

Object ID
enterprise.8164.103.2.16

Description
KPI threshold Critical Clear alarm indicates for which gateway, KPI and entity the alarm is generated and also its configured and measured threshold value.

Objects
starMURKPIName
starMURThreshComparator
starMURThreshConfiguredString
starMURThreshMeasuredString
starMURGatewayName
starMUREntityName

starMURKPIThreshMajor

Object ID
enterprise.8164.103.2.17

Description
KPI threshold Major alarm indicates for which gateway, KPI and entity the alarm is generated and also its configured and measured threshold value.

Objects
starMURKPIName
starMURThreshComaparator
starMURThreshConfiguredString
starMURThreshMeasuredString
starMURGatewayName
starMUREntityName

Object:

starMURKPIThreshMajorClear

Object ID:
enterprise.8164.103.2.18

Description:
KPI threshold Major clear alarm indicates for which gateway, KPI and entity the alarm is generated and also its configured and measured threshold value.

Objects:
starMURKPIName
starMURThreshComaparator
starMURThreshConfiguredString
starMURThreshMeasuredString
starMURGatewayName
starMUREntityName

Object:

starMURKPIThreshMinor

Object ID:
enterprise.8164.103.2.19

Description:
KPI threshold minor alarm indicates for which gateway, KPI and entity the alarm is generated and also its configured and measured threshold value.

Objects:
starMURKPIName
starMURThreshComaparator
starMURThreshConfiguredString
starMURThreshMeasuredString
starMURGatewayName
starMUREntityName

Object:

starMURKPIThreshMinorClear
**Object ID**
enterprise.8164.103.2.20

**Description**
KPI threshold minor clear alarm indicates for which gateway, KPI and entity the alarm is generated and also its configured and measured threshold value.

**Objects**
- starMURKPIName
- starMURThreshComaparator
- starMURThreshConfiguredString
- starMURThreshMeasuredString
- starMURGatewayName
- starMUREntityName

---

**Object**
starMURKPIThreshWarning

**Object ID**
enterprise.8164.103.2.21

**Description**
KPI threshold warning alarm indicates for which gateway, KPI and entity the alarm is generated and also its configured and measured threshold value.

**Objects**
- starMURKPIName
- starMURThreshComaparator
- starMURThreshConfiguredString
- starMURThreshMeasuredString
- starMURGatewayName
- starMUREntityName

---

**Object**
starMURKPIThreshWarningClear

**Object ID**
enterprise.8164.103.2.22

**Description**
KPI threshold warning clear alarm indicates for which gateway, KPI and entity the alarm is generated and also its configured and measured threshold value.

**Objects**
- starMURKPIName
- starMURThreshComaparator

---
starMURThreshConfiguredString
starMURThreshMeasuredString
starMURGatewayName
starMUREntityName

Object
starMURSFTPFailure

Object ID
enterprise.8164.103.2.23

Description
MUR application reports that there is SFTP failure which may lead to the backlog of files on RDP and affect the MUR functioning.

Probable Cause: SFTP is not working properly

Objects
starMURSFTPMessage

Object
starMURSFTPNormal

Object ID
enterprise.8164.103.2.24

Description
MUR application reports that SFTP functioning has resumed.

enterprise.8164.103.starMURMIBConformances(3)

enterprise.8164.103.3.starMURMIBGroups(1)

Object
starMURNotifMgmtGroup

Object ID
terprise.8164.103.3.1.1

Description
A collection of objects related with notification management on MUR.

Objects
starMURThreshConfigured
starMURThreshMeasured
starMURDiskPath
starMURAppIdentifier
starMURDataIdentifier
starMURTskIdentifier
starMURGatewayIdentifier
starMURGatewayName
starMUREntityName
starMURKPIName
starMURThreshComaparator
starMURThreshConfiguredString
starMURThreshMeasuredString
starMURSFTPMessage

Object
    starMURNotifGroup

Object ID
    enterprise.8164.103.3.1.2

Description
    A collection of notifications.

Objects
    starMURCPUBusy
    starMURCPUNormal
    starMURDiskSpaceLow
    starMURDiskSpaceNormal
    starMURMemLow
    starMURMemNormal
    starMURAappStart
    starMURAappStop
    starMURUnProcessedFiles
    starMURUnProcessedFilesNormal
    starMURErroneousFiles
    starMURErroneousRecords
    starMURRecordProcessingTaskLag
    starMURRecordProcessingTaskLagNormal
    starMURKPIThreshCritical
    starMURKPIThreshCriticalClear
    starMURKPIThreshMajor
    starMURKPIThreshMajorClear
    starMURKPIThreshMinor
starMURKPIThreshMinorClear
starMURKPIThreshWarning
starMURKPIThreshWarningClear
starMURSFTPFailure
starMURSFTPNormal

enterprise.8164.103.3.starMURMIBCompliances(2)

Object

starMURMIBCompliances

Object ID

enterprise.8164.103.3.2.1

Description

The compliance statements for entities which implement the STARENT MUR MIB.

Mandatory Groups

starMURNotifMgmtGroup
starMURNotifGroup
Chapter 8
WEM Application MIB

The following figure illustrates the hierarchical structure of the management information base (MIB) for the Web Element Manager. WEM is the graphical front end of the Element Management System (EMS).

Figure 6. WEM Application MIB Tree

iso.org.dod.internet.private.enterprise
(1.3.6.1.4.1)

starentMIB
(8164)

starentMIBObjects
(1)

starEMSMIB
(1000)

starEMSMIBObjects
(1)

starEMSMIBTraps
(2)

starEMSMIBCompliances
(1)

starEMSMIBConformances
(3)

starEMSMIBGroups
(2)
MIB Textual Conventions

This section defines the objects, traps and conformance for the WEM MIB.

enterprise.8164.1.1000.1.starEMSNotifMgmt(2)

Object

starEmsNotifInfo

Object ID

enterprise.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

enterprise.8164.1.1000.1.2.6

Description

This object indicates the time when this notification was generated.

Syntax

TimeStam

Access

Read-only

Object

starEmsProcMonThreshold

Object ID

enterprise.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

enterprise.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

enterprise.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

enterprise.8164.1.1000.1.2.10

Description

The object indicates the IP address of IMG.

Syntax

InetAddress

Access

Read-only
Object

starEmsFtpFileName

Object ID
enterprise.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
enterprise.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
enterprise.8164.1.1000.1.2.13

Description
The configured value of a Bulkstat file transfer in minutes.

Syntax
INTEGER(1..999999)
### Object ID
enterprise.8164.1.1000.1.2.14

### Description
This object indicates name of the BulkStat XML file which is to be FTPed on the NMS.

### Syntax
DisplayString (SIZE (1..256))

### Access
Read-only

#### starEmsXMLFtpFileName

> **Important:** This attribute is obsolete.

### Object ID
enterprise.8164.1.1000.1.2.15

### Description
This object indicates destination IP address (NMS) for BulkStat XML file FTP.

### Syntax
InetAddress

### Access
Read-only

#### starEmsXMLFtpDestAddr

### Object ID
enterprise.8164.1.1000.1.2.16

### Description
This object indicates destination path where BulkStat XML file is to be FTP’d.

### Syntax
DisplayString (SIZE (1..1024))

### Access
Read-only
Object
   starEmsIMGPreviousState

Object ID
   enterprise.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
   enterprise.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
   enterprise.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
starEmsPortMonCurrent

Object ID
enterprise.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

starEmsTotalPendingEvts

Object ID
enterprise.8164.1.1000.1.2.21

Description
This object indicates the number of pending events for monitor in server queue.

Syntax
INTEGER(1..100000)

Access
Read-only

Object
starEmsMaxLimit

starEmsMaxLimit

Object ID
enterprise.8164.1.1000.1.2.22

Description
This object indicates the limit of the server queue to store pending events.

Syntax
InetAddress

Access
Read-only

Object
starEmsClientAddr

starEmsClientAddr

Object ID
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise,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)
https(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
enterprise,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
enterprise,8164.1.1000.1.2.31

Description
The object indicates the logged time for syslog message.

Syntax
TimeStamp

Access
Read-only

Object
starEmsSyslogLoggedTime

Object ID
enterprise,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
enterprise,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
enterprise,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
enterprise,8164.1.1000.1.2.35

Description
This object indicates the hostname.

Syntax
DisplayString (SIZE (1..64))

Access
Read-only

Object
starEmsSyslogKeyword

Object ID
enterprise,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
enterprise,8164.1.1000.1.2.36

Description
This object indicates the keywords detected in the syslog message.

Syntax
DisplayString (SIZE (1..1024))

Access
Read-only
Object
starEmsSyslogMessage

Object ID
t
enterprise,8164.1.1000.1.2.37

Description
The object indicates the syslog message contents.

Syntax
DisplayString (SIZE (1..1024))

Access
Read-only

Object
starEmsSyslogFilePath

Object ID
t
enterprise,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
t
enterprise,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
t
enterprise,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
terprise.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
terprise.8164.1.1000.1.2.42

Description
This object indicates the bulkstat record time

Syntax
TimeStamp

Access
Read-only

Object
starEmsBulkStatThreshold

Important: This attribute is obsolete.

Object ID
terprise.8164.1.1000.1.2.1000.1.2.43

Description
This object indicates the configured threshold value of the bulkstat counter.
Syntax
INTEGER(0..100000)

Access
Read-only

Object
starEmsbulkStatCurrent

**Important:** This trap is obsolete.

Object ID
enterprise,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
enterprise,8164.1.1000.1.2.45

Description
MCRDBS IP address

Syntax
InetAddress

Access
Read-Only

Object
starEMSCFDbType

Object ID
enterprise,8164.1.1000.1.2.46

Description
Type {
sfmdb(1) Starent Format Master DataBase.
sfmdbin(2) Starent Format Master DataBase Incremental.
optcmdb(6) Optimized Customer Master DataBase.
optcmdbinc(7) Optimized Customer Master DataBase Incremental.
optcmbldb(14) Optimized 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
enterprise,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
enterprise,8164.1.1000.1.2.48

Description
CDP IP Address

Syntax
InetAddress

Access
Read-Only
Object

starEMSCFFromDbType

Object ID
enterprise,8164.1.1000.1.2.49

Description
Type:
sfmb(1) Starent Format Master DataBase.
sfmbinc(2) Starent Format Master DataBase Incremental.
blacklist(10) Blacklist DataBase.
sfmbldb(11) Starent Format Master Blacklist DataBase.

Syntax
INTEGER
sfmb(1),
sfmbinc(2),
blacklist(10),
sfmbldb(11)

Access
Read-Only

Object

starEMSCFToDbType

Object ID
enterprise,8164.1.1000.1.2.50

Description
Databases Type {
optcmdb(6) Optimized Customer Master DataBase.
optcmdbinc(7) Optimized Customer Master DataBase Incremental.
sfmbldb(11) Starent Format Master Blacklist DataBase.
optcmblldb(14) Optimized Customer Master Blacklist DataBase.
}

Syntax
INTEGER
optcmdb(6),
optcmdbinc(7),
sfmbldb(11),
optcmblldb(14)

Access
Read-Only
starEMSCFDestDbName

Object ID
enterprise.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
enterprise.8164.1.1000.1.2.52

Description
FTP host IP address

Syntax
DisplayString (SIZE(1..64))

Access
Read-Only

Object
starEMSBulkstatCounterValue

Object ID
enterprise.8164.1.1000.1.2.53

Description
Bulkstat counter current value

Syntax
Integer (0..100000)

Access
Read-Only

Object
starEmsBulkStatFilterDetails

Object ID
enterprise.8164.1.1000.1.2.54.
Description
This object indicates the bulkstat Threshold related filter combinations.

Syntax
DisplayString (SIZE (1..1024))

Access
read-only

Object
starEmsBulkStatCurrentDouble

Object ID
enterprise,8164.1.1000.1.2.55

Description
This object indicates the current threshold (delta) value of bulkstat counter.

Syntax
DisplayString (SIZE (1..1024))

Access
read-only

Object
starEmsBulkStatThresholdDouble

Object ID
enterprise,8164.1.1000.1.2.56.

Description
This object indicates the configured threshold value of bulkstat counter.

Syntax
DisplayString (SIZE (1..1024))

Access
read-only

Object
starEmsConfigBackupFileName

Object ID
enterprise,8164.1.1000.1.2.57.

Description
This object indicates name of the IMG configuration-file created during the config-backup operation.

Syntax
DisplayString (SIZE (1..256))
Access
read-only

enterprise.8164.1.1000.starEMSMIBTraps(2)

Object
starEmsFmEmailFailed

Object ID
terprise.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
terprise.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
terprise.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
enterprise.8164.1.1000.2.6

Description
This notification is generated by EMS Process Monitoring when EMS web server process comes up.

Objects
starEmsNotifRaisedTime

starEmsWebServerProcStop

Object ID
enterprise.8164.1.1000.2.7

Description
This notification is generated by EMS Process Monitoring when EMS web server process goes down.

Objects
starEmsNotifRaisedTime

starEmsWebServerProcCPUUsageOverLimit

Object ID
enterprise.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

starEmsWebServerProcCPUUsageNormal

Object ID
enterprise.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

starEmsWebServerProcCPUUsageNormal
starEmsDataBaseProcStart

Object ID
enterprise.8164.1.1000.2.10

Description
This notification is generated by EMS Process Monitoring when EMS data base process comes up.

Objects
starEmsNotifRaisedTime

starEmsDataBaseProcStop

Object ID
enterprise.8164.1.1000.2.11

Description
This notification is generated by EMS Process Monitoring when EMS data base process goes down.

Objects
starEmsNotifRaisedTime

starEmsDataBaseProcCPUUsageOverLimit

Object ID
enterprise.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

starEmsDataBaseProcCPUUsageNormal

Object ID
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
  enterprise.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
  enterprise.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
  enterprise.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
  enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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

starEmsFTPDirAccessible

Object ID
enterprise.8164.1.1000.2.30

Description
This notification is generated by EMS Process Monitoring when EMS FTP directory becomes accessible.

Objects
starEmsNotifRaisedTime

starEmsFTPDirNonAccessible

Object ID
enterprise.8164.1.1000.2.31

Description
This notification is generated by EMS Process Monitoring when EMS FTP directory is not accessible.

Objects
starEmsNotifRaisedTime

starEmsFTPDirUsageOverLimit

Object ID
enterprise.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
<table>
<thead>
<tr>
<th>Object</th>
<th>starEmsFTPDirUsageNormal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.1000.2.33</td>
</tr>
<tr>
<td>Description</td>
<td>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.</td>
</tr>
</tbody>
</table>
| Objects | starEmsNotifRaisedTime  
starEmsProcMonThreshold |

<table>
<thead>
<tr>
<th>Object</th>
<th>starEmsBlkArchDirAccessible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.1000.2.34</td>
</tr>
<tr>
<td>Description</td>
<td>This notification is generated by EMS Process Monitoring when EMS bulk archive directory becomes accessible.</td>
</tr>
<tr>
<td>Objects</td>
<td>starEmsNotifRaisedTime</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starEmsBlkArchDirNonAccessible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.1000.2.35</td>
</tr>
<tr>
<td>Description</td>
<td>This notification is generated by EMS Process Monitoring when EMS bulk archive directory is not accessible.</td>
</tr>
<tr>
<td>Objects</td>
<td>starEmsNotifRaisedTime</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starEmsBlkArchDirUsageOverLimit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.1000.2.36</td>
</tr>
<tr>
<td>Description</td>
<td>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.</td>
</tr>
</tbody>
</table>
starEmsNotifRaisedTime
starEmsProcMonThreshold

**Object**

starEmsBlkArchDirUsageNormal

**Object ID**

enterprise.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.

starEmsNotifRaisedTime
starEmsProcMonThreshold

**Object**

starEmsInterfaceStateUp

**Object ID**

enterprise.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.

starEmsNotifRaisedTime
starEmsInterfaceAddr
starEmsInterfaceName

**Object**

starEmsInterfaceStateDown

**Object ID**

enterprise.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.

starEmsNotifRaisedTime
starEmsInterfaceAddr
starEmsInterfaceName
**Object**: starEmsCPUUsageOverLimit

**Object ID**: enterprise.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**: enterprise.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**: enterprise.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**: enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.8164.1.1000.2.59

Description
This notification is generated by EMS Process Monitoring when Ems Bulkstat server process comes up.
### starEmsNotifRaisedTime

**Object**
- starEmsBulkStatServerProcStop

**Object ID**
enterprise.8164.1.1000.2.60

**Description**
This notification is generated by EMS Process Monitoring when Ems Bulkstat server process goes down.

### starEmsNotifRaisedTime

**Object**
- starEmsBulkStatServerProcDetectRestart

**Object ID**
enterprise.8164.1.1000.2.61

**Description**
This notification is generated by EMS Process Monitoring when Ems Bulkstat server process restart is detected.

### starEmsNotifRaisedTime

**Object**
- starEmsBulkStatServerProcCPUUsageOverLimit

**Object ID**
enterprise.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.

### starEmsNotifRaisedTime

**Object**
- starEmsProcMonThreshold
  - starEmsBulkStatServerProcCPUUsageNormal

**Object ID**
enterprise.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 ID
enterprise.8164.1.1000.2.64

Description
This notification is generated by EMS Process Monitoring when Ems Bulkstat parser process comes up.

Objects
- starEmsNotifRaisedTime

Object ID
enterprise.8164.1.1000.2.65

Description
This notification is generated by EMS Process Monitoring when Ems Bulkstat parser process goes down.

Objects
- starEmsNotifRaisedTime

Object ID
enterprise.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 ID
enterprise.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
enterprise.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
enterprise.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
  starEmsIMGRateControlStop
    Object
      starEmsIMGRateControlStop

Object ID
enterprise.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

enterprise.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

enterprise.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

enterprise.8164.1.1000.2.73
Description
This notification is generated by EMS when cluster failover happens.

Objects
starEmsNotifRaisedTime
starEmsPrevHostName
starEmsCurrHostName

Object
starEmsDBBackupNoDiscSpace

Object ID
enterprise.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
enterprise.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
enterprise.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
  enterprise.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
  enterprise.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
  enterprise.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
  enterprise.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
  enterprise.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
  enterprise.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
  enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.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
to enterprise.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

**Important:** This Trap is obsolete.

Object ID
to enterprise.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
starEmsBulkstatCounter
starEmsBulkstatCounter
starEmsBulkstatCounter
starEmsBulkstatCounter
starEmsBulkstatCounter

Object
starEmsBulkStatCounterThresholdNormal

**Important:** This Trap is obsolete.
Object ID
enterprise.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
enterprise.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
enterprise.8164.1.1000.2.92

Description
This notification is generated by EMS Process Monitoring when EMS content filtering directory is not accessible. A starEmsCFDBDirAccessible message is generated when the database comes back online.

Objects
starEMSNotifRaisedTime

Object
starEmsCFDBDirUsageOverLimit

Object ID
enterprise.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
enterprise.8164.1.1000.2.94

Description
EMS content filtering directory usage has come to normal value.

Objects
starEMSNotifRaisedTime
starEMSProcMonThreshold

Object
starEmsCFDbImportFailed

Object ID
enterprise.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,
starEmsCFSrcSourceDbFileName

Object
starEmsCFDbImportSucceeded

Object ID
enterprise.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
enterprise.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
enterprise.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
enterprise.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
enterprise.8164.1.1000.2.100

Description
This notification is generated by CFEMS when Database conversion done successfully.

Objects
starEmsNotifRaisedTime,
starEmsCFFromDbType,
starEmsCFToDbType,
starEmsCFSourceDbFileName,
starEmsCFDestDbFileName

Object
starEmsCFFtpConnectionFailed

Object ID
enterprise.8164.1.1000.2.101

Description
SFTP Connection failed.

Objects
starEmsNotifRaisedTime,
starEmsCFFtpHostInfo

Object
starEmsBulkStatCounterUsageOverLimit

Important: This Trap is obsolete.
Object ID
enterprise.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

Important: This Trap is obsolete.

Object ID
enterprise.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
enterprise.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
enterprise.8164.1.1000.2.105

Description
This notification is generated by EMS when FTP of Config Backup file from STxx to EMS succeed.

Objects
starEmsNotifRaisedTime
starEmsIMGName
starEmsNotifInfo

Object
starEmsBulkStatIncrementalCounterThresholdAboveLimit

Object ID
enterprise.8164.1.1000.2.106

Description
This notification is generated by EMS bulkstat parser when delta value for a particular bulkstat counter has exceeded the configured threshold value.

Objects
starEmsNotifRaisedTime
starEmsIMGName
starEmsBulkStatCounter
starEmsBulkStatRecordDetails
starEmsBulkStatRecordTime
starEmsBulkStatThresholdDouble
starEmsBulkStatCurrentDouble
starEmsBulkStatFilterDetails

Object
starEmsBulkStatIncrementalCounterThresholdNormal
Object ID
enterprise.8164.1.1000.2.107

Description
This notification is generated by EMS bulkstat parser when delta value for a particular bulkstat counter comes to normal value.

Objects
starEmsNotifRaisedTime
starEmsIMGName
starEmsBulkStatCounter
starEmsBulkStatRecordDetails
starEmsBulkStatRecordTime
starEmsBulkStatThresholdDouble
starEmsBulkStatCurrentDouble
starEmsBulkStatFilterDetails

Object
starEmsBulkStatGaugeCounterUsageOverLimit

Object ID
enterprise.8164.1.1000.2.108

Description
This notification is generated by EMS bulkstat parser when delta value for a particular bulkstat counter has exceeded the configured threshold value.

Objects
starEmsNotifRaisedTime
starEmsIMGName
starEmsBulkStatCounter
starEmsBulkStatRecordDetails
starEmsBulkStatRecordTime
starEmsBulkStatThresholdDouble
starEmsBulkStatCurrentDouble
starEmsBulkStatFilterDetails

Object
starEmsBulkStatGaugeCounterUsageNormal

Object ID
enterprise.8164.1.1000.2.109
Description
This notification is generated by EMS bulkstat parser when delta value for a particular bulkstat counter comes to normal value.

Objects
starEmsNotifRaisedTime
starEmsIMGName
starEmsBulkStatCounter
starEmsBulkStatRecordDetails
starEmsBulkStatRecordTime
starEmsBulkStatThresholdDouble
starEmsBulkStatCurrentDouble
starEmsBulkStatFilterDetails

Object
starEmsConfigBackupFileDiff

Object ID
enterprise.8164.1.1000.2.110

Description
This notification is generated by WEM during periodic config-backup operation. It is generated to indicate that the recently downloaded configuration file is different from the configuration file downloaded in the last config-backup operation. The third varbind indicates the name of the latest downloaded config-file. The fourth varbind indicates the name of the config file that was downloaded during the last config-backup operation.

Objects
starEmsNotifRaisedTime
starEmsIMGName
starEmsConfigBackupFileName
starEmsConfigBackupFileName

enterprise.8164.1.1000.starEMSConformances(3)

enterprise.8164.1.1000.3.starEmsMIBCompliances(1)

Object
starEmsMIBCompliance

Object ID
enterprise.8164.1.1000.3.1.1

Description
The compliance statements for entities which implement the STARENT EMS MIB.
enterprise.8164.1.1000.3.starEmsMIBGroups(2)

Object
starEmsNotifMgmtGroup

Object ID
enterprise.8164.1.1000.3.2.1

Description
A collection of objects related to 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,
starEmsCToDbType,
starEmsCFDestDbFileName,
starEmsBulkStatCounterValue
starEmsBulkStatFilterDetails
starEmsBulkStatCounterDouble
starEmsBulkStatThresholdDouble
starEmsConfigBackupFileName

Object
starEmsNotifGroup

Object ID
test

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
starEmsBulkStatServerProcDetect Restart
starEmsBulkStatServerProcCPUUsageOverLimit
starEmsBulkStatServerProcCPUUsageNormal
starEmsBulkStatParserProcStart
starEmsBulkStatParserProcStop
starEmsBulkStatParserProcDetect Restart
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,
starEmsCFFtpConnectionFailed,
starEmsBulkStatCounterUsageOverLimit,
starEmsBulkStatCounterUsageNormal
starEmsConfigBackupFtpFailed
starEmsConfigBackupFtpSuccess
starEmsBulkStatIncrementalCounterThresholdAboveLimit
starEmsBulkStatIncrementalCounterThresholdNormal
starEmsBulkStatGaugeCounterUsageOverLimit
starEmsBulkStatGaugeCounterUsageNormal
starEmsConfigBackupFileDiff
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
- Informational
- Warning
- Minor
- Major
- Critical
- Indeterminate
- N/A - Not Applicable

This chapter lists the default severity levels assigned to all supported traps.

**Important:** The “Clear” severity for Web Element Manager traps is the same as the “Informational” severity in the core platform MIB.
# Core Platforms Chassis 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>
<thead>
<tr>
<th>Trap</th>
<th>Trap ID String</th>
<th>Default Severity</th>
<th>Informational Trap ID String</th>
</tr>
</thead>
<tbody>
<tr>
<td>starCardTempOverheat</td>
<td>enterprise.8164.2.1</td>
<td>Critical</td>
<td>enterprise.8164.2.2</td>
</tr>
<tr>
<td>starCardTempOK</td>
<td>enterprise.8164.2.2</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCardReset</td>
<td>enterprise.8164.2.3</td>
<td>Major</td>
<td>N/A</td>
</tr>
<tr>
<td>starCardRebootRequest</td>
<td>enterprise.8164.2.4</td>
<td>Major</td>
<td>N/A</td>
</tr>
<tr>
<td>starCardUp</td>
<td>enterprise.8164.2.5</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCardVoltageFailure</td>
<td>enterprise.8164.2.6</td>
<td>Critical</td>
<td>enterprise.8164.2.5</td>
</tr>
<tr>
<td>starCardRemoved</td>
<td>enterprise.8164.2.7</td>
<td>Critical</td>
<td>enterprise.8164.2.8</td>
</tr>
<tr>
<td>starCardInserted</td>
<td>enterprise.8164.2.8</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCardBootFailed</td>
<td>enterprise.8164.2.9</td>
<td>Major</td>
<td>N/A</td>
</tr>
<tr>
<td>starCardFailed</td>
<td>enterprise.8164.2.10</td>
<td>Critical</td>
<td>N/A</td>
</tr>
<tr>
<td>starCardSWFailed</td>
<td>enterprise.8164.2.11</td>
<td>Critical</td>
<td>N/A</td>
</tr>
<tr>
<td>starCardRCCFailed</td>
<td>enterprise.8164.2.12</td>
<td>Major</td>
<td>N/A</td>
</tr>
<tr>
<td>starCardMismatch</td>
<td>enterprise.8164.2.13</td>
<td>Major</td>
<td>enterprise.8164.2.5</td>
</tr>
<tr>
<td>starCardFailureLEDOn</td>
<td>enterprise.8164.2.14</td>
<td>Major</td>
<td>N/A</td>
</tr>
<tr>
<td>starCardFailureLEDOff</td>
<td>enterprise.8164.2.15</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCardPACMigrateStart</td>
<td>enterprise.8164.2.16</td>
<td>Major</td>
<td>enterprise.8164.2.17</td>
</tr>
<tr>
<td>starCardPACMigrateComplete</td>
<td>enterprise.8164.2.17</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCardPACMigrateFailed</td>
<td>enterprise.8164.2.18</td>
<td>Major</td>
<td>enterprise.8164.2.5</td>
</tr>
<tr>
<td>starCardSPCSwitchoverStart</td>
<td>enterprise.8164.2.19</td>
<td>Major</td>
<td>enterprise.8164.2.20</td>
</tr>
<tr>
<td>starCardSPCSwitchoverComplete</td>
<td>enterprise.8164.2.20</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCardSPCSwitchoverFailed</td>
<td>enterprise.8164.2.21</td>
<td>Critical</td>
<td>enterprise.8164.2.5</td>
</tr>
<tr>
<td>starFanFailed</td>
<td>enterprise.8164.2.22</td>
<td>Major</td>
<td>enterprise.8164.2.24</td>
</tr>
<tr>
<td>Trap</td>
<td>Trap ID String</td>
<td>Default Severity</td>
<td>Informational Trap ID String</td>
</tr>
<tr>
<td>--------------------------</td>
<td>-------------------</td>
<td>------------------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>starFanRemoved</td>
<td>enterprise.8164.2.23</td>
<td>Major</td>
<td>enterprise.8164.2.24</td>
</tr>
<tr>
<td>starFanInserted</td>
<td>enterprise.8164.2.24</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starLogThreshold</td>
<td>enterprise.8164.2.25</td>
<td>Minor</td>
<td>N/A</td>
</tr>
<tr>
<td>starCPUBusy</td>
<td>enterprise.8164.2.26</td>
<td>Major</td>
<td>N/A</td>
</tr>
<tr>
<td>starCPUMemoryLow</td>
<td>enterprise.8164.2.27</td>
<td>Major</td>
<td>N/A</td>
</tr>
<tr>
<td>starCPUMemoryFailed</td>
<td>enterprise.8164.2.28</td>
<td>Critical</td>
<td>enterprise.8164.2.5</td>
</tr>
<tr>
<td>starCPUFailed</td>
<td>enterprise.8164.2.29</td>
<td>Critical</td>
<td>enterprise.8164.2.5</td>
</tr>
<tr>
<td>starCPUWatchDogExpired</td>
<td>enterprise.8164.2.30</td>
<td>Critical</td>
<td>enterprise.8164.2.5</td>
</tr>
<tr>
<td>starNPURPPoolExhausted</td>
<td>enterprise.8164.2.31</td>
<td>Major</td>
<td>N/A</td>
</tr>
<tr>
<td>starPowerFilterUnitFailed</td>
<td>enterprise.8164.2.32</td>
<td>Major</td>
<td>enterprise.8164.2.34</td>
</tr>
<tr>
<td>starPowerFilterUnitUnavail</td>
<td>enterprise.8164.2.33</td>
<td>Major</td>
<td>enterprise.8164.2.34</td>
</tr>
<tr>
<td>starPowerFilterUnitAvail</td>
<td>enterprise.8164.2.34</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starAlertsDisabled</td>
<td>enterprise.8164.2.37</td>
<td>Minor</td>
<td>enterprise.8164.2.38</td>
</tr>
<tr>
<td>starAlertsEnabled</td>
<td>enterprise.8164.2.38</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starAAAAuthServerUnreachable</td>
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### Default Trap Severities

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## WEM Default Trap Severities

The following table lists traps supported by the Web Element Manager and their corresponding default severity level as defined within the WEM application.

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</table>
CF Default Trap Severities

The following table lists traps supported by the Content Filtering (CF) service and their corresponding default severity level as defined within the CF application.

Table 3. CF Default Trap Severities

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<th>Trap</th>
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<td>starCfReThreshDiskUtilization</td>
<td>enterprise.8164.100.3.2.7</td>
<td>Major</td>
<td>enterprise.8164.100.3.2.8</td>
</tr>
<tr>
<td>starCfReClearThreshDiskUtilization</td>
<td>enterprise.8164.100.3.2.8</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfDbThreshCPUUtilization</td>
<td>enterprise.8164.100.3.2.9</td>
<td>Major</td>
<td>enterprise.8164.100.3.2.10</td>
</tr>
<tr>
<td>starCfDbClearThreshCPUUtilization</td>
<td>enterprise.8164.100.3.2.10</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfDbThreshDiskUtilization</td>
<td>enterprise.8164.100.3.2.11</td>
<td>Major</td>
<td>enterprise.8164.100.3.2.12</td>
</tr>
<tr>
<td>starCfDbClearThreshDiskUtilization</td>
<td>enterprise.8164.100.3.2.12</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfCciApplicationStart</td>
<td>enterprise.8164.100.4.2.1</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfCciApplicationStop</td>
<td>enterprise.8164.100.4.2.2</td>
<td>Major</td>
<td>enterprise.8164.100.4.2.1</td>
</tr>
<tr>
<td>Trap</td>
<td>Trap ID String</td>
<td>Default Severity</td>
<td>Informational Trap ID String</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>-----------------</td>
<td>------------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>starCfCciCdpServerReachable</td>
<td>enterprise.8164.100.4.2.3</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfCciCdpServerUnreachable</td>
<td>enterprise.8164.100.4.2.4</td>
<td>Major</td>
<td>enterprise.8164.100.4.2.3</td>
</tr>
<tr>
<td>starCfCciThreshCPUUtilization</td>
<td>enterprise.8164.100.4.2.5</td>
<td>Major</td>
<td>enterprise.8164.100.4.2.6</td>
</tr>
<tr>
<td>starCfCciClearThreshCPUUtilization</td>
<td>enterprise.8164.100.4.2.6</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfCciThreshMemoryUtilization</td>
<td>enterprise.8164.100.4.2.7</td>
<td>Major</td>
<td>enterprise.8164.100.4.2.8</td>
</tr>
<tr>
<td>starCfCciClearThreshMemoryUtilization</td>
<td>enterprise.8164.100.4.2.8</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfMdbProcStart</td>
<td>enterprise.8164.100.6.2.1</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfMdbProcStop</td>
<td>enterprise.8164.100.6.2.2</td>
<td>Critical</td>
<td>enterprise.8164.100.6.2.1</td>
</tr>
<tr>
<td>starCfMdbProcDbAbsent</td>
<td>enterprise.8164.100.6.2.3</td>
<td>Warning</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfMdbProcApiOpFailed</td>
<td>enterprise.8164.100.6.2.4</td>
<td>Warning</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfMdbProcDbParseError</td>
<td>enterprise.8164.100.6.2.5</td>
<td>Warning</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfMdbProcMemUsageOverLimit</td>
<td>enterprise.8164.100.6.2.6</td>
<td>Major</td>
<td>enterprise.8164.100.6.2.7</td>
</tr>
<tr>
<td>starCfMdbProcMemUsageNormal</td>
<td>enterprise.8164.100.6.2.7</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfMdbProcCpuUsageOverLimit</td>
<td>enterprise.8164.100.6.2.8</td>
<td>Major</td>
<td>enterprise.8164.100.6.2.9</td>
</tr>
<tr>
<td>starCfMdbProcCpuUsageNormal</td>
<td>enterprise.8164.100.6.2.9</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfMdbProcDiskUsageOverLimit</td>
<td>enterprise.8164.100.6.2.10</td>
<td>Major</td>
<td>enterprise.8164.100.6.2.11</td>
</tr>
<tr>
<td>starCfMdbProcDiskUsageNormal</td>
<td>enterprise.8164.100.6.2.11</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfMdbProcInvalidFileName</td>
<td>enterprise.8164.100.6.2.12</td>
<td>Warning</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfMdbProcReportErrWithMsg</td>
<td>enterprise.8164.100.6.2.13</td>
<td>Warning</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfMdbProcCfdcmErrWithMsg</td>
<td>enterprise.8164.100.6.2.14</td>
<td>Warning</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfMdbProcMcrdbsErrWithMsg</td>
<td>enterprise.8164.100.6.2.15</td>
<td>Warning</td>
<td>N/A</td>
</tr>
</tbody>
</table>
# LESS Default Trap Severities

The following table lists traps supported by the Local External Storage Server (LESS) and their corresponding default severity level as defined within the LESS application.

<table>
<thead>
<tr>
<th>Trap</th>
<th>Trap ID String</th>
<th>Default Severity</th>
<th>Informational Trap ID String</th>
</tr>
</thead>
<tbody>
<tr>
<td>starLESSApplicationStart</td>
<td>enterprise.8164.1.101.2.1</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starLESSApplicationReStart</td>
<td>enterprise.8164.1.101.2.2</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starLESSApplicationStop</td>
<td>enterprise.8164.1.101.2.3</td>
<td>Warning</td>
<td>N/A</td>
</tr>
<tr>
<td>starLESSApplicationTerminated</td>
<td>enterprise.8164.1.101.2.4</td>
<td>Critical</td>
<td>N/A</td>
</tr>
<tr>
<td>starLESSPullIntervalMissed</td>
<td>enterprise.8164.1.101.2.5</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starLESSThreshDiskUsage</td>
<td>enterprise.8164.1.101.2.6</td>
<td>Critical</td>
<td>enterprise.8164.1.101.2.7</td>
</tr>
<tr>
<td>starLESSThreshClearDiskUsage</td>
<td>enterprise.8164.1.101.2.7</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starLESSFileMissed</td>
<td>enterprise.8164.1.101.2.8</td>
<td>Warning</td>
<td>N/A</td>
</tr>
<tr>
<td>starLESSRemoteConnectionFail</td>
<td>enterprise.8164.1.101.2.9</td>
<td>Critical</td>
<td>enterprise.8164.1.101.2.10</td>
</tr>
<tr>
<td>starLESSRemoteConnectionEstablished</td>
<td>enterprise.8164.1.101.2.10</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starLESSFileTransferFail</td>
<td>enterprise.8164.1.101.2.11</td>
<td>Critical</td>
<td>enterprise.8164.1.101.2.12</td>
</tr>
<tr>
<td>starLESSFileTransferComplete</td>
<td>enterprise.8164.1.101.2.12</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starLESSThreshPendingFiles</td>
<td>enterprise.8164.1.101.2.13</td>
<td>Warning</td>
<td>enterprise.8164.1.101.2.14</td>
</tr>
<tr>
<td>starLESSThreshClearPendingFiles</td>
<td>enterprise.8164.1.101.2.14</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starLESSNewHostFound</td>
<td>enterprise.8164.1.101.2.15</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starLESSHostRemoved</td>
<td>enterprise.8164.1.101.2.16</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starGenericLESSApplicationStart</td>
<td>enterprise.8164.1.101.2.17</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starGenericLESSApplicationReStart</td>
<td>enterprise.8164.1.101.2.18</td>
<td>Informational</td>
<td>enterprise.8164.1.101.2.19</td>
</tr>
<tr>
<td>starGenericLESSApplicationStop</td>
<td>enterprise.8164.1.101.2.19</td>
<td>Warning</td>
<td>N/A</td>
</tr>
<tr>
<td>starGenericLESSApplicationTerminated</td>
<td>enterprise.8164.1.101.2.20</td>
<td>Critical</td>
<td>N/A</td>
</tr>
<tr>
<td>starGenericLESSPullIntervalMissed</td>
<td>enterprise.8164.1.101.2.21</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starGenericLESSThreshDiskUsage</td>
<td>enterprise.8164.1.101.2.22</td>
<td>Critical</td>
<td>enterprise.8164.1.101.2.23</td>
</tr>
<tr>
<td>starGenericLESSThreshClearDiskUsage</td>
<td>enterprise.8164.1.101.2.23</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starGenericLESSFileMissed</td>
<td>enterprise.8164.1.101.2.24</td>
<td>Warning</td>
<td>N/A</td>
</tr>
<tr>
<td>starGenericLESSRemoteConnectionFail</td>
<td>enterprise.8164.1.101.2.25</td>
<td>Critical</td>
<td>enterprise.8164.1.101.2.26</td>
</tr>
<tr>
<td>Trap</td>
<td>Trap ID String</td>
<td>Default Severity</td>
<td>Informational Trap ID String</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>----------------------</td>
<td>------------------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>starGenericLESSRemoteConnectionEstablished</td>
<td>enterprise.8164.1.101.2.26</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starGenericLESSFileTransferFail</td>
<td>enterprise.8164.1.101.2.27</td>
<td>Critical</td>
<td>enterprise.8164.1.101.2.28</td>
</tr>
<tr>
<td>starGenericLESSFileTransferComplet</td>
<td>enterprise.8164.1.101.2.28</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starGenericLESSThreshPendingFiles</td>
<td>enterprise.8164.1.101.2.29</td>
<td>Warning</td>
<td>enterprise.8164.1.101.2.30</td>
</tr>
<tr>
<td>starGenericLESSThreshClearPendingFiles</td>
<td>enterprise.8164.1.101.2.30</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starGenericLESSNewHostFound</td>
<td>enterprise.8164.1.101.2.31</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starGenericLESSHostRemoved</td>
<td>enterprise.8164.1.101.2.32</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starGenericLESSHostEnabled</td>
<td>enterprise.8164.1.101.2.33</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starGenericLESSHostDisabled</td>
<td>enterprise.8164.1.101.2.34</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starGenericLESSProcessFailure</td>
<td>enterprise.8164.1.101.2.35</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starGenericLESSProcessStarted</td>
<td>enterprise.8164.1.101.2.36</td>
<td>Informational</td>
<td>N/A</td>
</tr>
</tbody>
</table>
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. IPMS is now part of Mobility Unified Reporting (MUR).

Table 5. IPMS Default Trap Severities

<table>
<thead>
<tr>
<th>Trap</th>
<th>Trap ID String</th>
<th>Default Severity</th>
<th>Informational Trap ID String</th>
</tr>
</thead>
<tbody>
<tr>
<td>starIPMSComponentStart</td>
<td>enterprise.8164.102.2.1</td>
<td>Informational</td>
<td>enterprise.8164.102.2.2</td>
</tr>
<tr>
<td>starIPMSComponentStop</td>
<td>enterprise.8164.102.2.2</td>
<td>Major</td>
<td>N/A</td>
</tr>
<tr>
<td>starIPMSProcessStart</td>
<td>enterprise.8164.102.2.3</td>
<td>Informational</td>
<td>enterprise.8164.102.2.4</td>
</tr>
<tr>
<td>starIPMSProcessStartFail</td>
<td>enterprise.8164.102.2.4</td>
<td>Major</td>
<td>N/A</td>
</tr>
<tr>
<td>starIPMSPacketLossThreshold</td>
<td>enterprise.8164.102.2.5</td>
<td>Major</td>
<td>N/A</td>
</tr>
<tr>
<td>starIPMSDPIFail</td>
<td>enterprise.8164.102.2.6</td>
<td>Major</td>
<td>N/A</td>
</tr>
<tr>
<td>starIPMSThresholdExceed</td>
<td>enterprise.8164.102.2.7</td>
<td>Warning</td>
<td>enterprise.8164.102.2.8</td>
</tr>
<tr>
<td>starIPMSThresholdClear</td>
<td>enterprise.8164.102.2.8</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starIPMSPeerStateChange</td>
<td>enterprise.8164.102.2.9</td>
<td>Major</td>
<td>enterprise.8164.102.2.10</td>
</tr>
<tr>
<td>starIPMSOperStateChange</td>
<td>enterprise.8164.102.2.10</td>
<td>Major</td>
<td>N/A</td>
</tr>
</tbody>
</table>
## MUR Default Trap Severities

The following table lists traps supported by Mobility Unified Reporting (MUR) and their corresponding default severity level as defined within the MUR application.

<table>
<thead>
<tr>
<th>Trap</th>
<th>Trap ID String</th>
<th>Default Severity</th>
<th>Informational Trap ID String</th>
</tr>
</thead>
<tbody>
<tr>
<td>starMURCPUBusy</td>
<td>enterprise.8164.103.2.1</td>
<td>Major</td>
<td>enterprise.8164.103.2.2</td>
</tr>
<tr>
<td>starMURCPUNormal</td>
<td>enterprise.8164.103.2.2</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starMURDiskSpaceLow</td>
<td>enterprise.8164.103.2.3</td>
<td>Critical</td>
<td>enterprise.8164.103.2.4</td>
</tr>
<tr>
<td>starMURDiskSpaceNormal</td>
<td>enterprise.8164.103.2.4</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starMURMemLow</td>
<td>enterprise.8164.103.2.5</td>
<td>Major</td>
<td>enterprise.8164.103.2.5</td>
</tr>
<tr>
<td>starMURMemNormal</td>
<td>enterprise.8164.103.2.6</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starMURAppStart</td>
<td>enterprise.8164.103.2.7</td>
<td>Informational</td>
<td>enterprise.8164.103.2.8</td>
</tr>
<tr>
<td>starMURAppStop</td>
<td>enterprise.8164.103.2.8</td>
<td>Major</td>
<td>N/A</td>
</tr>
<tr>
<td>starMURUnProcessedFiles</td>
<td>enterprise.8164.103.2.9</td>
<td>Warning</td>
<td>N/A</td>
</tr>
<tr>
<td>starMURUnProcessedFilesNormal</td>
<td>enterprise.8164.103.2.10</td>
<td>Warning</td>
<td>N/A</td>
</tr>
<tr>
<td>starMURErroneousFiles</td>
<td>enterprise.8164.103.2.11</td>
<td>Warning</td>
<td>N/A</td>
</tr>
<tr>
<td>starMURErroneousRecords</td>
<td>enterprise.8164.103.2.12</td>
<td>Warning</td>
<td>N/A</td>
</tr>
<tr>
<td>starMURRecordProcessingTaskLag</td>
<td>enterprise.8164.103.2.13</td>
<td>Warning</td>
<td>enterprise.8164.103.2.14</td>
</tr>
<tr>
<td>starMURRecordProcessingTaskLagNormal</td>
<td>enterprise.8164.103.2.14</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starMURKPIThreshCritical</td>
<td>enterprise.8164.103.2.15</td>
<td>Critical</td>
<td>enterprise.8164.103.2.16</td>
</tr>
<tr>
<td>starMURKPIThreshCriticalClear</td>
<td>enterprise.8164.103.2.16</td>
<td>Critical</td>
<td>N/A</td>
</tr>
<tr>
<td>starMURKPIThreshMajor</td>
<td>enterprise.8164.103.2.17</td>
<td>Major</td>
<td>enterprise.8164.103.2.18</td>
</tr>
<tr>
<td>starMURKPIThreshMajorClear</td>
<td>enterprise.8164.103.2.18</td>
<td>Major</td>
<td>N/A</td>
</tr>
<tr>
<td>starMURKPIThreshMinor</td>
<td>enterprise.8164.103.2.19</td>
<td>Minor</td>
<td>enterprise.8164.103.2.20</td>
</tr>
<tr>
<td>starMURKPIThreshMinorClear</td>
<td>enterprise.8164.103.2.20</td>
<td>Minor</td>
<td>N/A</td>
</tr>
<tr>
<td>Trap</td>
<td>Trap ID String</td>
<td>Default Severity</td>
<td>Informational Trap ID String</td>
</tr>
<tr>
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<td>----------------------</td>
<td>----------------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>starMURKPIThreshWarning</td>
<td>enterprise.8164.103.2.21</td>
<td>Minor</td>
<td>enterprise.8164.103.2.22</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Note:</em> Warning for this release</td>
<td></td>
</tr>
<tr>
<td>starMURKPIThreshWarningClear</td>
<td>enterprise.8164.103.2.22</td>
<td>Minor</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Note:</em> Informational for this release</td>
<td></td>
</tr>
<tr>
<td>starMURSFTPFailure</td>
<td>enterprise.8164.103.2.23</td>
<td>Critical</td>
<td>enterprise.8164.103.2.24</td>
</tr>
<tr>
<td>starMURSFTPNormal</td>
<td>enterprise.8164.103.2.24</td>
<td>Informational</td>
<td>N/A</td>
</tr>
</tbody>
</table>
PPT Default Trap Severities - StarentMIB

The following table lists traps supported by the Intelligent Policy and Charging Function (IPCF) Policy Provisioning Tool (PPT) and their corresponding default severity level as defined within the IPCF PPT application.

**Important:** Beginning with Release 14.0, PPT has changed to the Cisco MIB structure. Legacy StarentMIB traps are retained for 12.x users. Please refer to the “PPT Default Trap Severities - CiscoMIB” section below for 14.x information.

Table 7. PPT Default Trap Severities - StarentMIB

<table>
<thead>
<tr>
<th>Trap</th>
<th>Trap ID String</th>
<th>Default Severity</th>
<th>Informational Trap ID String</th>
</tr>
</thead>
<tbody>
<tr>
<td>starPPTWebserverStart</td>
<td>enterprise.8164.104.2.1</td>
<td>Informational</td>
<td>enterprise.8164.104.2.2</td>
</tr>
<tr>
<td>starPPTWebserverStop</td>
<td>enterprise.8164.104.2.2</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starPPTWebserverRestarted</td>
<td>enterprise.8164.104.2.3</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starPPTDatabaseStart</td>
<td>enterprise.8164.104.2.4</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starPPTDatabaseStop</td>
<td>enterprise.8164.104.2.5</td>
<td>Informational</td>
<td>enterprise.8164.104.2.6</td>
</tr>
<tr>
<td>starPPTDatabaseRestarted</td>
<td>enterprise.8164.104.2.6</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starPPTPSMonStart</td>
<td>enterprise.8164.104.2.7</td>
<td>Informational</td>
<td>enterprise.8164.104.2.8</td>
</tr>
<tr>
<td>starPPTPSMonStop</td>
<td>enterprise.8164.104.2.8</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starPPTPSMonRestarted</td>
<td>enterprise.8164.104.2.9</td>
<td>Informational</td>
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</tr>
<tr>
<td>starPPTCriticalCondition</td>
<td>enterprise.8164.104.2.10</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starPPTDBBackupDestinationNotAccessible</td>
<td>enterprise.8164.104.2.11</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starPPTDBBackupNotEnoughDiskSpace</td>
<td>enterprise.8164.104.2.12</td>
<td>Informational</td>
<td>N/A</td>
</tr>
</tbody>
</table>
**PPT Default Trap Severeities - CiscoMIB**

The following table lists traps supported by the Intelligent Policy and Charging Function (IPCF) Policy Provisioning Tool (PPT) and their corresponding default severity level as defined within the IPCF PPT application.

**Important:** The Cisco MIB (cPPT) is supported from Release 14.0.

<table>
<thead>
<tr>
<th>Trap</th>
<th>Trap ID String</th>
<th>Default Severity</th>
<th>Informational Trap ID String</th>
</tr>
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<td>cPPTWebserverStartNotif</td>
<td>enterprise.9.9.787.0.1</td>
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<td>cPPTWebserverStopNotif</td>
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<td>enterprise.9.9.787.0.6</td>
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<td>N/A</td>
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<tr>
<td>cPPTPSMonStartNotif</td>
<td>enterprise.9.9.787.0.7</td>
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<td>cPPTPSMonStopNotif</td>
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<tr>
<td>cPPTDBBackupDestinationNotAccessibleNotif</td>
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<td>cPPTDBBackupNotEnoughDiskSpaceNotif</td>
<td>enterprise.9.9.787.0.12</td>
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<td>cPPTMonitorServerStartNotif</td>
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<td>N/A</td>
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<td>cPPTMonitorServerStopNotif</td>
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<td>cPPTMonitorServerRestartedNotif</td>
<td>enterprise.9.9.787.0.15</td>
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<td>N/A</td>
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<td>cPPTIpcfUnmanageableNotif</td>
<td>enterprise.9.9.787.0.16</td>
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<td>enterprise.9.9.787.0.17</td>
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<td>cPPTIpcfManageableNotif</td>
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<td>cPPTSscUnmanageableNotif</td>
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<td>cPPTSchedulerStartNotif</td>
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<td>cPPTSchedulerStopNotif</td>
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<td>cPPTSchedulerRestartedNotif</td>
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<td>cPPTSynchronizationFailedOnIpcfNotif</td>
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<td>N/A</td>
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<td>Default Severity</td>
<td>Informational Trap ID String</td>
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<td>cPPPTSynchronizationFailedOnSscNotif</td>
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<td>cPPPTSynchronizationFailedNotif</td>
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<tr>
<td>cPPTPcefUnmanageableNotif</td>
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<td>enterprise.9.9.787.0.27</td>
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<td>N/A</td>
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<td>cPPTSynchronizationFailedOnPcefNotif</td>
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<td>N/A</td>
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<tr>
<td>cPPTClusterFailoverNotif</td>
<td>enterprise.9.9.787.0.29</td>
<td>N/A</td>
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</table>
SSC Default Trap Severities

The following table lists traps supported by the Intelligent Policy and Charging Function Subscriber (IPCF) Service Controller (SSC) and their corresponding default severity level as defined within the SSC application.

<table>
<thead>
<tr>
<th>Trap</th>
<th>Trap ID String</th>
<th>Default Severity</th>
<th>Informational Trap ID String</th>
</tr>
</thead>
<tbody>
<tr>
<td>starSSCEntityStart</td>
<td>enterprise.8164.201.2.1</td>
<td>Informational</td>
<td>N/A</td>
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<tr>
<td>starSSCEntityStop</td>
<td>enterprise.8164.201.2.2</td>
<td>Major</td>
<td>enterprise.8164.201.2.1</td>
</tr>
<tr>
<td>starSSCProcessStart</td>
<td>enterprise.8164.201.2.3</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starSSCProcessStartFail</td>
<td>enterprise.8164.201.2.4</td>
<td>Informational</td>
<td>enterprise.8164.201.2.3</td>
</tr>
<tr>
<td>starSSCProcessRestartFail</td>
<td>enterprise.8164.201.2.5</td>
<td>Major</td>
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</tr>
<tr>
<td>starSSCCFTPServerUnreachable</td>
<td>enterprise.8164.201.2.6</td>
<td>Major</td>
<td>enterprise.8164.201.2.7</td>
</tr>
<tr>
<td>starSSCCFTPServerReachable</td>
<td>enterprise.8164.201.2.7</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starSSCShCtrlPeerUp</td>
<td>enterprise.8164.201.2.8</td>
<td>Informational</td>
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</tr>
<tr>
<td>starSSCShCtrlPeerDown</td>
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<td>starSSCEnCtrlPeerUp</td>
<td>enterprise.8164.201.2.10</td>
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<td>starSSCEnCtrlPeerDown</td>
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<tr>
<td>starSSCSysMgrFailover</td>
<td>enterprise.8164.201.2.12</td>
<td>Major</td>
<td>enterprise.8164.201.2.14</td>
</tr>
<tr>
<td>starSSCCpuThresholdCrossed</td>
<td>enterprise.8164.201.2.13</td>
<td>Major</td>
<td>enterprise.8164.201.2.14</td>
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<tr>
<td>starSSCCpuThresholdCleared</td>
<td>enterprise.8164.201.2.14</td>
<td>Informational</td>
<td>N/A</td>
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<tr>
<td>starSSCSwapThresholdCrossed</td>
<td>enterprise.8164.201.2.15</td>
<td>Major</td>
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<tr>
<td>starSSCSwapThresholdCleared</td>
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<tr>
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<td>enterprise.8164.201.2.20</td>
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<td>starSSCMaxShSessionsCrossed</td>
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<td>starSSCMaxPendReqAppMgrCrossed</td>
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<tr>
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<td>Default Severity</td>
<td>Informational Trap ID String</td>
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<td>starSSCMaxPendReqAppMgrSysCleared</td>
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<td>N/A</td>
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<tr>
<td>starSSCSprDown</td>
<td>enterprise.8164.201.227</td>
<td>Major</td>
<td>enterprise.8164.201.228</td>
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<tr>
<td>starSSCLdapInitFailed</td>
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<td>starSSCCacheCleanupFailed</td>
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<td>starSSCDataGuardBrokerDown</td>
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<td>starSSCMonitoringT10Failed</td>
<td>enterprise.8164.201.249</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
Appendix B
IETF and Cisco MIBs

This chapter is for Administrators working with integrating the Starent MIB and the Cisco MIB so Cisco management applications can manage the ASR 5x00 chassis. It provides some new configuration options; there is also a list of supported Cisco MIBs.
New CLI Options

The following are new CLI options:

sysOld Options

The default OId string is 1.3.6.1.4.1.8164.
The new-style Cisco OId string is 1.3.6.1.4.1.9.
Using the following CLI, ASR 5000 users can choose which string they prefer:

[llocal]asr5000(config)# system sysoid-style new|default

**Important:** ASR 5500 users do not have this option as the Cisco OId String is the default.

sysDesc Options

For ASR 5000 users, the default system description is:

```
Linux asr5000 2.6.18-staros-v2-private-deb #1 SMP (date/time) i686
```

The Cisco default system description is:

```
Copyright (c) 2011 by Cisco Systems, Inc.
```

Users can opt for either description using the following CLI command: [local]asr5000(config)# system sysdesc-style new|default

**Important:** This CLI will not be available to ASR 5500 users; it will default to the Cisco description only.

**Important:** This command can be combined with sysOld as follows: system sysdesc-sysoid-style new|default However, this combination affects BOTH sysDesc AND sysOld equally: that is, they can both be old-style or they can both be new-style. The System CLI offers an option to configure sysDesc independently, but SysOld is not a user-configurable parameter.

Serial Number Configuration

ASR 5000 users can configure the chassis serial number with the following CLI:
[local] asr5000(config)# system chassis-serial-number <string>

**Important:** This CLI is not available for ASR 5500 users as the chassis serial number is hard-coded.
Standards-Based MIBs

The following are standards-based, read-only, and available from the Cisco MIB ftp site. IF-MIB and ENTITY-MIB are disabled by default.

Configuration

MIBs can be configured using the following CLI:

[local]asr5000(config)# snmp mib <mib-name, auto complete> | no snmp mib <mib-name, auto complete>

Entity MIB

The Entity MIB is implemented as described in RFC4133. The following are not supported for this release:

- entPhysicalAlias
- entPhysicalAssetID
- entPhysicalMfgDate
- entPhysicalUris
- entLogicalTable
- entLPMappingTable
- entPhysicalContainsTable

IF MIB

The IF MIB is implemented per RFC1213, RFC1573, and RFC2863. The following are not supported for this release:

- ifStackTable
- ifStackLastChange
- ifRcvAddressTable
- ifTestTable
Cisco MIBs

The following is a list of supported Cisco MIBs for this release. These are available from the Cisco ftp site.

Configuration

MIBs can be configured using the following CLI:

```
[local]asr5000(config)# snmp mib <mib-name, auto complete> | no snmp mib <mib-name, auto complete>
```

Cisco MIBs

The following MIBs are supported in this release. They can be enabled/disabled as required.

- CISCO-ENHANCED-IPSEC-FLOW-MIB
- CISCO-ENTITY-DISPLAY-MIB
- CISCO-ENTITY-FRU-CONTROL-MIB
- CISCO-ENTITY-REDUNDANCY-MIB
- CISCO-ENTITY-SENSOR-MIB
- CISCO-ENTITY-STATE-MIB
- CISCO-FLASH-MIB
- CISCO-HOST-RESOURCE-MIB

**Important:** CISCO-HOST-RESOURCE-MIB is per the appropriate RFC, but limited to hrSystem and hrStorage tables.

- CISCO-IP-LOCAL-POOL-MIB
- CISCO-IPSEC-FLOW-MONITOR-MIB
- CISCO-MOBILE-WIRELESS-SERVICE-MIB
- CISCO-PROCESS_MIB