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<td>826</td>
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<td>CF Default Trap Severities</td>
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</tr>
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<td>LESS Default Trap Severities</td>
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<td>IPMS Default Trap Severities</td>
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<td>MUR Default Trap Severities</td>
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<td>PPT Default Trap Severities - StarentMIB</td>
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</tr>
</tbody>
</table>

<table>
<thead>
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</thead>
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<td>sysOId Options</td>
<td>844</td>
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<td>sysDesc Options</td>
<td>844</td>
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<td>Standards-Based MIBs</td>
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<tr>
<td>Configuration</td>
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<tr>
<td>Entity MIB</td>
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<td>IF MIB</td>
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<tr>
<td>Cisco MIBS</td>
<td>847</td>
</tr>
<tr>
<td>Configuration</td>
<td>847</td>
</tr>
<tr>
<td>Cisco MIBs</td>
<td>847</td>
</tr>
</tbody>
</table>
About this Guide

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

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

- 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(8154)

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

```
starentChassis(1)
  starentSLOTS(2)

starentLog(5)
  starentAlertMon(8)

starentFeedback(1)
  starentPooledLog(2)

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

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

starentIPool(30)
  starentTrapData(31)
    starentGGSNService(32)
    starentL2TP(33)
    starentSessSub1(34)
    starentNWReachServer(35)

starentIPSEC(36)
  starentSIPRoute(37)
    starentRPSOption(38)
    starentCFSStats(39)
    starentSIPRouteServer(40)
    starentVMService(41)

starentGSTService(42)
  starentPDIFSys(43)
    starentPDIFService(44)
    starentGGSNService(45)
    starentSS7RD(46)
    starentSoCChip(47)

starentGTPService(48)
  starentPMSServer(49)
    starentCert(50)
    starentFile(51)
    starentFTFServ(52)
    starentCGSPeerServer(53)

starentSDH(54)
  starentSDHPath(55)
    starentETrib(56)
    starentGPRSLink(57)
    starentFacFETrib(58)
    starentStorage(59)

starentNGNSys(60)
  starentNGService(61)
    starentPDGService(62)
    starentPDGService(63)
    starentIPoolGroup(64)
    starentXNBGWService(65)

starentALCAPService(66)
  starentMMES1Assoc(67)
  starentMMES1Path(70)
```
## 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.

<table>
<thead>
<tr>
<th>Object</th>
<th>Description</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>
</tr>
</tbody>
</table>

**Syntax**

```plaintext
Integer {
  unknown(1)
  pactac(2)
  spc(3)
  lc(4)
  rcc(5)
  spio(6)
}
```

<table>
<thead>
<tr>
<th>Object</th>
<th>Description</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>
</tr>
</tbody>
</table>

**Syntax**

```plaintext
Integer {
  none(1)
  unknown(2)
  spc(3)
  pac(4)
}
spio(5)
rcc(6)
lceth(7)
lcgeth(8)
lcdis3
tac(10)
lcoc3(11)
lcoc12(12)
smc(13)
psc(14)
lcqgeth(15)
letgeth(16)
vmc(17)
vpc(18)
vlceth1p(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
gpdsp(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
miodc(40), -- MIO Daughter Card
fsc(41), -- Fabric Card
dpc(42) -- Data Processing Card
mdpc(43) -- M Data Processing Card
dpdc(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)
disconnection(2)
notapplicable(3)
dormantdisconnection(4)
dormantdetection(5)
}

Object

StarShortName

Object ID

N/A

Description

short identification string. Follows the same conventions as the DisplayString TEXTUAL-CONVENTION.

Syntax

Octet String (1..32)

Object

StarShortID

Object ID

N/A

Description

An abbreviated form for identifying a service, composed of the first 8 characters of the context name, and the first 8 characters of a service name, separated by (:).

Syntax

OCTET STRING(1..17)

Object

StarMediumID

Object ID

N/A

Description

An abbreviated form for identifying a context-specific object, composed of the first 8 characters of the context name, and the first 16 characters of the object name, separated by (:).

Syntax

OCTET STRING (SIZE (1..25))

Object

StarENBID

Object ID

N/A
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),
exstart(5),
exchange(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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>unknown(0)</td>
<td></td>
</tr>
<tr>
<td>ST16(1)</td>
<td></td>
</tr>
<tr>
<td>ST40(2)</td>
<td></td>
</tr>
<tr>
<td>SSI(3)</td>
<td></td>
</tr>
<tr>
<td>st20(4)</td>
<td></td>
</tr>
<tr>
<td>asr5000(5)</td>
<td></td>
</tr>
<tr>
<td>asr5500(6)</td>
<td></td>
</tr>
<tr>
<td>ssi(7)</td>
<td></td>
</tr>
<tr>
<td>ssi-kvm-guest(8)</td>
<td></td>
</tr>
<tr>
<td>ssi-kvm-vsm-guest(9)</td>
<td></td>
</tr>
</tbody>
</table>

### 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
<table>
<thead>
<tr>
<th>Object ID</th>
<th>Description</th>
<th>Syntax</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>starSlotVoltage5dot0LowThresh</td>
<td>The slot number.</td>
<td>Integer32(1..48)</td>
<td></td>
</tr>
<tr>
<td>starSlotNumPorts</td>
<td>The type of the slot.</td>
<td>StarentSlotType</td>
<td>Read-only</td>
</tr>
<tr>
<td>starSlotAction</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>starSlotVoltageState</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>starSlotNumCPU</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>starSlotPartNumber</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>starSlotPartRevision</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>starSlotSerialNumber</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>starSlotCLEICode</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>starSlotCiscoModelName</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>starSlotCiscoHardwareRev</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>starSlotCiscoSerialNumber</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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: starCardType
Object ID
enterprise.8164.1.2.1.3

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

Syntax
StarentCardType

Access
Read-only

Object
starCardOperState

Object ID
enterprise.8164.1.2.1.4

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.8164.1.2.1.5

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)
    activewpc(8)
    activedpc(9)
}

Access
Read-only

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
starCardHaltIssued

Object ID
enterprise.8164.1.2.1.1.10

Description
Only applicable to SPC cards.

Important: These cards are no longer supported.
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.

Object starCardRebootPending

Object ID enterprise.8164.1.2.1.1.12

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

starCardUsable

Object ID
enterprise.8164.1.2.1.1.13

Description
Indicates if the card is currently usable.

Syntax
Integer

Access
Read-only

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

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
Starent Chassis Objects

Access
Read-only

<table>
<thead>
<tr>
<th>Object</th>
</tr>
</thead>
<tbody>
<tr>
<td>starSlotVoltage1dot5LowThresh</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Object</th>
</tr>
</thead>
<tbody>
<tr>
<td>starSlotVoltage1dot5HighThresh</td>
</tr>
</tbody>
</table>

**Importan:** 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

<table>
<thead>
<tr>
<th>Object</th>
</tr>
</thead>
<tbody>
<tr>
<td>starSlotVoltage1dot8</td>
</tr>
</tbody>
</table>

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

Object ID
enterprise.8164.1.2.1.1.23
**Starent Chassis Objects**

**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
Access
Read-only

Object
starSlotVoltage5dot0HighThresh

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

Object ID
enterprise.8164.1.2.1.1.34

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

Syntax
Gauge32

Access
Read-only

Object
starSlotNumPorts

**Important:** This alarm is obsolete.

Object ID
enterprise.8164.1.2.1.1.35

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

Object
starSlotAction

Object ID
enterprise.8164.1.2.1.1.36

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

Access
Read-write

Enumeration
noaction(1)
reset(2)

Object
starSlotVoltageState

Object ID
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.
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

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)

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
cstarSlotMappingToSlot

Object ID
terprise.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
cstarFanTable

Object ID
terprise.8164.1.4.1

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

Syntax
Sequence of StarFanEntry

Access
not-accessible

Object
cstarFanEntry

Object ID
terprise.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)
## enterprise.8164.1.starentLogs(5)

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

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

<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.1.5.1</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>A table containing information about all of the system logs.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Syntax</th>
<th>Sequence of StarLogEntry</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Access</th>
<th>not-accessible</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.1.5.1.1</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Information about a particular system log.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Syntax</th>
<th>StarLogEntry</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Access</th>
<th>not-accessible</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Sequence</th>
<th>starLogName StarShortName</th>
</tr>
</thead>
</table>
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**

<table>
<thead>
<tr>
<th>Object</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>starCPUSlot</td>
<td>Integer32</td>
</tr>
<tr>
<td>starCPUInteger</td>
<td>Integer32</td>
</tr>
<tr>
<td>starCPUUser</td>
<td>Gauge32</td>
</tr>
<tr>
<td>starCPUSystem</td>
<td>Gauge32</td>
</tr>
<tr>
<td>starCPUIdle</td>
<td>Gauge32</td>
</tr>
<tr>
<td>starCPUIO</td>
<td>Gauge32</td>
</tr>
<tr>
<td>starCPURQ</td>
<td>Gauge32</td>
</tr>
<tr>
<td>starCPULoad1Min</td>
<td>Gauge32</td>
</tr>
<tr>
<td>starCPULoad5Min</td>
<td>Gauge32</td>
</tr>
<tr>
<td>starCPULoad15Min</td>
<td>Gauge32</td>
</tr>
</tbody>
</table>
starCPUMemTotal  Integer32
starCPUMemUsed   Gauge32
starCPUNumProcesses  Gauge32
starCPUMemCached   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
### starCPUMemCached

**Description**
The total number of processes which exist on this CPU.

**Syntax**
Gauge32(1..32768)

**Access**
Read-only

#### Object ID
enterprise.8164.1.10.1.1.17

### starNPUMgrTable

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
starSessInProgDormant Calls

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
starSessInProgSIPConn

Object ID
enterprise.8164.1.12.10

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

Syntax
Gauge32

Access
Read-only

Object
starSessInProgMIPConn

Object ID
enterprise.8164.1.12.11

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

Syntax
Gauge32

Access
Read-only

Object
starSessInProgDisc

Object ID
enterprise.8164.1.12.12

Description
The number of sessions in the disconnecting state.
Syntax
Gauge32

Access
Read-only

**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
enterprise.8164.1.13.4

Description
The total number of sessions which were connected.

Syntax
Gauge32

Access
Read-only

Object
starSessTtlAuthSucc

Object ID
enterprise.8164.1.13.5

Description
The total number of sessions where authentication was successful.

Syntax
Gauge32

Access
Read-only

Object
starSessTtlAuthFail

Object ID
enterprise.8164.1.13.6

Description
The total number of sessions which failed authentication.

Syntax
Gauge32

Access
Read-only

Object
starSessTtlLCPUp
## Starent Chassis Objects

### 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**
starSessTtlIcppUp

### 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.
Starent Chassis Objects

MIB Textual Conventions

SNMP MIB Reference, StarOS Release 16

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
starSessTtlRPRegAccept
Starent Chassis Objects

MIB Textual Conventions

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
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.
**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
starSessTtlMIPTxBytes

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
<table>
<thead>
<tr>
<th>Units</th>
<th>Megabytes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Access</strong></td>
<td>Read-only</td>
</tr>
<tr>
<td><strong>Object</strong></td>
<td>starSessTtlMIPRxBytes</td>
</tr>
</tbody>
</table>

**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.
Starent Chassis Objects

MIB Textual Conventions

SNMP MIB Reference, StarOS Release 16

---

**Syntax**

Gauge32

**Access**

Read-only

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

**Object ID**

enterprise.8164.1.14.2

**Description**

The total number of AAA requests.

**Syntax**

Gauge32

**Access**

Read-only

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

**Object ID**

enterprise.8164.1.14.3

**Description**

The total number of AAA authentication requests.

**Syntax**

Gauge32

**Access**

Read-only

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

**Object ID**

enterprise.8164.1.14.4

**Description**

The total number of AAA accounting requests.
Object
  starAAACurRequests

Object ID
  enterprise.8164.1.14.5

Description
  The current number of AAA requests.

Syntax
  Gauge32

Access
  Read-only

Object
  starAAACurAuthRequests

Object ID
  enterprise.8164.1.14.6

Description
  The current number of AAA authentication requests.

Syntax
  Gauge32

Access
  Read-only

Object
  starAAACurAcctRequests

Object ID
  enterprise.8164.1.14.7

Description
  The current number of AAA accounting requests.

Syntax
  Gauge32

Access
  Read-only

Object
  starAAATtlAcctSess

Object ID
  enterprise.8164.1.14.8
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.

Syntax
Gauge32
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
Starent Chassis Objects

<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)**

| Object          | enterprise.8164.1.15.7[
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Access</td>
<td>Read-only</td>
</tr>
</tbody>
</table>
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.
Starent Chassis Objects

MIB Textual Conventions

Gauge32

Read-only

starFATtlArrived

enterprise.8164.1.17.2

The total number of foreign agent session requests.

Counter32

Read-only

starFATtlRejected

enterprise.8164.1.17.3

The total number of rejected foreign agent sessions.

Counter32

Read-only

starFATtlDemultiplexed

enterprise.8164.1.17.4

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

table
   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)
cecs(10)
cscf(11)
ipsg(12)
evedoreva(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)
epdg(37)
pcp(38)
henbgw-access(39)
henbgw-network(40)
ws(41)
samog(42)
saegw(43)
ppp_lback(44)
dhcp(45)
imsa(46)
diameter(47)
dhcipc(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
starCLIClient
starCLIDatabaseUsername
starCLIRemoteIpAddrType

Object
starCLIID

Object ID
test.8164.1.19.1.1.1

Description
The internal identify of the CLI session.

Syntax
Gauge32

Access
not-accessible

Object
starCLIUsername

Object ID
test.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
test.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: starCLIRemotelIPAddr (1.7); starCLIContext (1.8); and starCLIDatabaseUsername (1.9). Versions before 14.0 will use the following scheme: starCLIRemotelIPAddr (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

enterprise.8164.1.starentTaskMgr(20)

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>starTaskTable</td>
</tr>
</tbody>
</table>

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

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

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
cstarTaskInstance

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
cstarTaskFacilityName

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
cstarTaskCard

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

Object

starPPPStatVpnID

Object ID
enterprise.8164.1.21.1.1.1

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

Syntax
Gauge32

Access
not-accessible

Object

starPPPStatSvcID

Object ID
enterprise.8164.1.21.1.1.2

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

Syntax
StarShortID
Access
not-accessible

Object
starPPPStatVpnName

Object ID
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.
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
starPPPStatLcpEntered

Object ID
enterprise.8164.1.21.1.1.20

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

Syntax
Counter32

Access
Read-only

Object
starPPPStatRenegPdsn

Object ID
enterprise.8164.1.21.1.1.21

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

Syntax
Counter32

Access
Read-only

Object
starPPPStatRenegMobil

Object ID
enterprise.8164.1.21.1.1.22

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

Syntax
Counter32
Access
Read-only

Object
starPPPStatRenegAddrMismatch

Object ID
enterprise.8164.1.21.1.23

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

Syntax
Counter32

Access
Read-only

Object
starPPPStatRenegOther

Object ID
enterprise.8164.1.21.1.24

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

Syntax
Counter32

Access
Read-only

Object
starPPPStatChapAuthAttempt

Object ID
enterprise.8164.1.21.1.25

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

Syntax
Counter32

Access
Read-only

Object
starPPPStatPapAuthAttempt
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.8164.1.21.1.1.40

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.8164.1.21.1.1.41

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.8164.1.21.1.1.42

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**

starPPPStatIpcpFailUnknown

### 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.
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.
Syntax
Counter32

Access
Read-only

Object
starPPPStatPapAuthAbort

Object ID
enterprise.8164.1.21.1.1.60

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

Syntax
Counter32

Access
Read-only

Object
starPPPStatMSChapAuthAbort

Object ID
enterprise.8164.1.21.1.1.61

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

Syntax
Counter32

Access
Read-only

Object
starPPPStatSessSkipAuth

Object ID
enterprise.8164.1.21.1.1.62

Description
The number of PPP sessions that skipped authentications for the associated VPN service.
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
Access
Read-only

**Object**
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

Access
Read-only

**Object**
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

Access
Read-only

**Object**
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

Access
Read-only

**Object**
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

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
starPPPStatLCPEchoTotalReq

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
starPPPStatLCPEchoReqResent

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 starPPPStatLCPEchoRepRecved

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
cstarPPPStatRemoteTerm

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
cstarPPPStatMiscFail

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
cstarMIPHASStatTable

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
starMIPHADisconnected
starMIPHAExpire
starMIPHADisconnected
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
starMIPHAStatFARevocations
starMIPHAStatRegAcceptHO
starMIPHAStatRegDeniedHO
starMIPHAStatRegSendDiscardTotal

<table>
<thead>
<tr>
<th>Object</th>
<th>starMIPHASStatVpnID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.22.1.1.1</td>
</tr>
<tr>
<td>Description</td>
<td>The internal identification of the home agent Mobile IP VPN (context).</td>
</tr>
<tr>
<td>Syntax</td>
<td>Gauge32</td>
</tr>
<tr>
<td>Access</td>
<td>Read-only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starMIPHASStatSvcID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.22.1.1.2</td>
</tr>
</tbody>
</table>
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
starMIPHASStatVpnName

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**
starMIPHASStatExpire

**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
### starMIPHAStatRegAcceptTotal

**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

### starMIPHAStatRegAcceptReg

**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

### starMIPHAStatRegAcceptRenew

**Description**
The number of session registration renewals 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
**Access**  
Read-only

---

**Object**  
starMIPHASStatRegAcceptDereg

**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**  
starMIPHASStatRegDeniedTotal

**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**  
starMIPHASStatRegDeniedInitial

**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**  
starMIPHASStatRegDeniedRenew
### starMIPHAStatRegDeniedDereg

**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

### starMIPHAStatRegReplyTotal

**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

### starMIPHAStatRegReplyAcceptReg

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

Syntax
Counter32

Access
Read-only

Object
starMIPHAStatRegReplyAcceptDereg

Object ID
trust 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
starMIPHAStatRegReplyDenied

Object ID
trust 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
starMIPHAStatRegReplyBadReq

Object ID
trust 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
starMIPHASTatRegReplyNoResource

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
starMIPHASTatRegReplyMnAuthFail

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
starMIPHASTatRegReplyFAAuthFail

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
## Starent Chassis Objects

### SNMP MIB Reference, StarOS Release 16

#### MIB Textual Conventions

---

**Object**

**starMIPHAStatRegReplySimulBind**

**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**

**starMIPHAStatRegReplyUnknownHA**

**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**

**starMIPHAStatRegReplyRevTunUnavail**

**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**

**starMIPHAStatRegReplyRevTunMand**
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
starMIPFADiscAdmin
starMIPFAuthAttempt
starMIPFAuthSuccess
starMIPFAuthFailure
starMIPFARegRecvTotal
starMIPFARegRecvInitial
starMIPFARegRecvRenewal
starMIPFARegRecvDereg
starMIPFARegAcceptTotal
starMIPFARegAcceptInitial
starMIPFARegAcceptRenewal
starMIPFARegAcceptDereg
starMIPFARegDenTotal
starMIPFARegDenInitial
starMIPFARegDenRenewal
starMIPFARegDenDereg
starMIPFARegDiscardTotal
starMIPFARegDiscardInitial
starMIPFARegDiscardRenewal
starMIPFARegDiscardDereg
starMIPFARegRelayedTotal
starMIPFARegRelayedInitial
starMIPFARegRelayedRenewal
starMIPFARegRelayedDereg
starMIPFARegAuthFailTotal
starMIPFARegAuthFailInitial
starMIPFARegAuthFailRenewal
starMIPFARegAuthFailDereg
starMIPFARegDenPDSNTotal
starMIPFARegDenPDSNInitial
starMIPFARegDenPDSNRenewal
starMIPFARegDenPDSNDereg
starMIPFARegDenHATotal
starMIPFARegDenHAINitial
starMIPFARegDenHARenewal
starMIPFARegDenHADereg
starMIPFARegDenPDSNUnspec
starMIPFARegDenPDSNTimeout
starMIPFARegDenPDSNAdmin
starMIPFARegDenPDSNResources
starMIPFARegDenPDSNMnAuth
starMIPFARegDenPDSNHAAuth
starMIPFARegDenPDSNTooLong
starMIPFARegDenPDSNBadReq
starMIPFARegDenPDSNEncapUnav
starMIPFARegDenPDSNRevTunUnav
starMIPFARegDenPDSNRevTunMand
starMIPFARegDenHAFAAuth
starMIPFARegDenHABadReq
starMIPFARegDenHAMismatchID
starMIPFARegDenHASimulBind
starMIPFARegDenHAUnknownHA
starMIPFARegDenHARevRunUnavail
starMIPFARegRplRcvTotal
starMIPFARegRplRcvTotalRly
starMIPFARegRplRcvErrors
starMIPFARegRplRcvInitial
starMIPFARegRplRcvInitialRly
starMIPFARegRplRcvRenewal
starMIPFARegRplRcvRenewalRly
starMIPFARegRplRcvDereg
starMIPFARegRplRcvDeregRly
starMIPFARegRplSentTotal
starMIPFARegRplSentAcceptReg
starMIPFARegRplSentAcceptDereg
starMIPFARegRplSentBadReq
starMIPFARegRplSentTooLong
starMIPFARegRplSentMnAuthFail
starMIPFARegRplSentHAAuthFail
starMIPFARegRplSentAdminProhib
starMIPFARegRplSentNoResources
starMIPFARegRplSentRevTunUnavail
starMIPFARegRplSentRevTunMand
starMIPFARegRplSentSendErrors
starMIPFAStatRegDenPDSNBadReply
starMIPFAStatRegDenPDSNMissNAI
starMIPFAStatRegDenPDSNMissHomeAgent
starMIPFAStatRegDenPDSNMissHomeAddr
starMIPFAStatRegDenPDSNUnknChallenge
starMIPFAStatRegDenPDSNMissChallenge
starMIPFAStatRegDenPDSNStaleChallenge
starMIPFAStatRegDenPDSNMNTooDistant
starMIPFAStatRegDenPDSNStyleUnavail
starMIPFAStatRegDenPDSNHAHANetUnreach
starMIPFAStatRegDenPDSNHAHostUnreach
starMIPFAStatRegDenPDSNHAPortUnreach
starMIPFAStatRegDenPDSNHAUnreach
starMIPFAStatRegDenPDSNInvCOA
starMIPFAStatRegReqSentInitTotal
starMIPFAStatRegReqSentInitResend
starMIPFAStatRegReqSentRenewTotal
starMIPFAStatRegReqSentRenewResend
starMIPFAStatRegReqSentDeregTotal
starMIPFAStatRegReqSentDeregResend
starMIPFAStatRegRplSentMNTooDistant
starMIPFAStatRegRplSentInvCOA
starMIPFAStatRegRplSentHANetUnreach
starMIPFAStatRegRplSentHAHostUnreach
starMIPFAStatRegRplSentHAPortUnreach
starMIPFAStatRegRplSentHAUnreach
starMIPFAStatRegRplSentRegTimeout
starMIPFAStatRegRplSentMissNAI
starMIPFAStatRegRplSentMissHomeAgent
starMIPFAStatRegRplSentMissHomeAddr
starMIPFAStatRegRplSentUnknChallenge
starMIPFAStatRegRplSentMissChallenge
starMIPFAStatRegRplSentStaleChallenge
starMIPFAStatRegRplSentBadReply

Object

   starMIPFAStatVpnID
Object ID  
enterprise.8164.1.23.1.1.1

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

Syntax  
Gauge32

Access  
Read-only

Object  
starMIPFAStatSvcID

Object ID  
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  
starMIPFAStatVpnName

Object ID  
enterprise.8164.1.23.1.1.3

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

Syntax  
DisplayString

Access  
Read-only

Object  
starMIPFAStatServName

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**
starMIPFAStatDiscExpire

**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
enterprise.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
enterprise.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
enterprise.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
testEnterprise.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
testEnterprise.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
testEnterprise.8164.1.23.1.1.17

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

Syntax
Counter32
Access
Read-only

Object

starMIPFASStatRegAcceptRenewal

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

Access
Read-only

Object

starMIPFASStatRegAcceptDereg

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

Access
Read-only

Object

starMIPFASStatRegDenTotal

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

Access
Read-only

Object

starMIPFASStatRegDenInitial
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.
Object
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

Object
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

Object
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

Object
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
starMIPFASStatRegAuthFailDereg

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
starMIPFASStatRegDenPDSNInitial

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
starMIPFASStatRegDenPDSNTotal

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
starMIPFASStatRegDenPDSNRenewal
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
starMIPFAStatRegDenHA

Total

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
starMIPFAStatRegDenHATotal

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
timeout.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
timeout.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
timeout.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
enterprise.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
enterprise.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
enterprise.8164.1.23.1.1.50
Description
The number of PDSN session registrations denied due to a life too lone indication for the associated Mobile IP foreign agent VPN service.

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegDenPDSNBadReq

Object ID
tenterprise.8164.1.23.1.1.51

Description
The number of PDSN session registration denied due to a bad request indication for the associated Mobile IP foreign agent VPN service.

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegDenPDSNEncapUnav

Object ID
tenterprise.8164.1.23.1.1.52

Description
The number of PDSN session registration denied due to no IP encapsulation available for the associated Mobile IP foreign agent VPN service.

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegDeniedPDSNRevTunUnav

Object ID
tenterprise.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
starMIPFAStatRegDenHAMismatchID

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
starMIPFAStatRegDenHASimulBind

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
starMIPFAStatRegDenHAAUnknownHA

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
starMIPFASstatRegDenHARevRunUnavail

Object ID
enterprise.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
starMIPFASstatRegRplRcvTotal

Object ID
enterprise.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
starMIPFASstatRegRplRcvTotalRly

Object ID
enterprise.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
starMIPFASStatRegRplRcvErrors

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
starMIPFASStatRegRplRcvInitial

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
starMIPFASStatRegRplRcvInitialRly

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.
Access
Read-only

Object
starMIPFASStatRegRplRcvRenewal

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

Object
starMIPFAStatRegRplRcvDeregRly

Object ID
guard.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
guard.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
guard.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
enterprise.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
enterprise.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
enterprise.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
starMIPFASstatRegRplSentRevTunUnavail

Object ID
tmeprene.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
starMIPFASstatRegRplSentRevTunMand

Object ID
tmeprene.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
starMIPFASstatRegRplSentSendErrors

Object ID
tmeprene.8164.1.23.1.1.81
Description
The number of session registration replies which were sent indicating there were errors in transmission for the associated Mobile IP foreign agent VPN service.

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegDenPDSNBadReply

Object ID
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
starMIPFAStatRegDenPDSNMissNAI

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
starMIPFAStatRegDenPDSNMissHomeAgent

Object ID
enterprise.8164.1.23.1.1.84
Description
The number of session registrations denied by PDSN due to missing home agent for the associated Mobile IP foreign agent VPN service.

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegDenPDSNMissHomeAddr

Object ID
enterprise.8164.1.23.1.1.85

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

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegDenPDSNUnknChallenge

Object ID
enterprise.8164.1.23.1.1.86

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

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegDenPDSNMissChallenge

Object ID
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
starMIPFAStatRegDenPDSNSStyleUnavail

Object ID
enterprise.8164.1.23.1.1.90
Description
The number of session registration denied by PDSN due to style not available for the associated Mobile IP foreign agent VPN service.

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegDenPDSNHAHostUnreach

Object ID
target

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
target

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
starMIPFAStatRegDenPDSNHAHostUnreach

Object ID
target
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
starRPSecViolations
starRPSecBadAuth
starRPSecBadID
starRPSecBadSpi
starRPSecMissingMnHAAuth
starRPSecMissingRegUpdate
starRPRegRecvInitial
starRPRegAcceptActvStartIntraPDSN
starRPRegAcceptActvStopIntraPDSN
starRPRegRecvRenew
starRPRegActvStartRenew
starRPRegActvStopRenew
starRPRegRecvDereg
starRPRegAcceptActvStopDereg
starRPDiscSessAbsent
starRPDiscNoMemory
starRPDiscMalformed
starRPDiscAuthFail
starRPDiscInternalBounce
starRPDiscInpuQueueExceeded
starRPDiscMismatchedId
starRPDiscInvPacketLen
starRPDiscMisc

Object
starRPStatVpnID

Object ID
enterprise.8164.1.24.1.1.1

Description
The internal identification of the R-P VPN (context).
Syntax
   Gauge32

Access
   Read-only

Object
   starRPStatSvcID

Object ID
   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 enterprise.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 enterprise.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 enterprise.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
starRPRRegUpdTotal

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
starRPRRegUpdAccept

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
starRPRRegUpdDenied

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
temporary.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
temporary.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
temporary.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
starRPSSecViolations

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
starRPSSecBadAuth

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
starRPSSecBadID

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.
Object
starRPSecBadSpi

Object ID
enterprise.8164.1.24.1.1.52

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

Syntax
Counter32

Access
Read-only

Object
starRPSecMissingMnHAAuth

Object ID
enterprise.8164.1.24.1.1.53

Description
The total number of session security missing mobile number home agent authentication violations for the associated R-P VPN service.

Syntax
Counter32

Access
Read-only

Object
starRPSecMissingRegUpdate

Object ID
enterprise.8164.1.24.1.1.54

Description
The total number of session missing registration update violations for the associated R-P VPN service.

Syntax
Counter32

Access
Read-only

Object
starRPRegRecvInitial
Object ID  
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
enterprise.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
starRPDisSessAbsent

Object ID
enterprise.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
starRPDisNoMemory

Object ID
enterprise.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
starRPDisMalformed
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
   starRPDisclnternalBounce

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
   starRPDisclntpuQueueExceeded

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.
**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**
starRPDisInvPacketLen

**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.
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
starRP1xRxPackets

Object ID
enterprise.8164.1.24.1.1.74

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

Syntax
Counter32

Access
Read-only
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
tenterprise.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
tenterprise.8164.1.26.1

Description
A table containing subscriber information.

Syntax
SEQUENCE OF starSubEntry

Access
not-accessible

Object
starSubEntry

Object ID
tenterprise.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
enterprise.8164.1.26.1.1.1

Description
The context the subscriber is in.

Syntax
DisplayString

Access
-notify

Object
starSubMSID

Object ID
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
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
accessible-for-notify

Object
starEISServerVPNName

Object ID
enterprise.8164.1.27.1.1.3

Description
The VPN Name for this EIS Server.

Syntax
DisplayString

Access
accessible-for-notify

enterprise.8164.1.starentThresholds(28)

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

Object
starThreshMeasuredPct

Object ID
enterprise.8164.1.28.1

Description
The measured value of a thresholded parameter.

Syntax
Gauge32(0..100)

Access
accessible-for-notify

Object
starThreshPct

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

Object
starThreshPeriodInt

Object ID
enterprise.8164.1.28.9

Description
The configured value of a thresholded parameter.

Syntax
Integer32(30..600)

Units
Seconds

Access
accessible-for-notify

Object
starThreshDeviceNum

Object ID
enterprise.8164.1.28.10

Description
The configured value of a thresholded parameter.

Syntax
Integer32(1..4)

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
t

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
**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

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

**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

**Description**

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

**Syntax**

Counter32

**Access**

Read-only

**Object**

starPortTXFrames

**Object ID**

enterprise.8164.1.29.1.1.14

**Description**

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

MIB Textual Conventions

SNMP MIB Reference, StarOS Release 16

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Syntax
Counter32

Access
Read-only

Object
cstarPortRxDiscards

Object ID
enterprise.8164.1.29.1.1.15

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

Syntax
Counter32

Access
read-only

Object
cstarPortTxDiscards

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
cstarPortRxErrors

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.
Starent Chassis Objects

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
enterprise.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.starentIPPool(30)**

**Object**

starIPPoolTable

**Object ID**

timeout.8164.1.30.1

**Description**

A table containing IP Pool information.

**Syntax**

SEQUENCE OF StarIPPoolEntry

**Access**

not-accessible

**Object**

starIPPoolEntry

**Object ID**

timeout.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

Object ID

enterprise.8164.1.30.1.1.1

**Description**
The context ID for this pool.

**Syntax**
Gauge32

**Access**
Read-only

### starIPPoolMaskorEndAddr

Object ID

enterprise.8164.1.30.1.1.1

**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

### starIPPoolPriority

Object ID

enterprise.8164.1.30.1.1.1

**Description**
The context for this pool.
Syntax
DisplayString

Access
not-accessible

Object
starIPPoolGroup

Object ID
temporary.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
temporary.8164.1.30.1.1.5

Description
The name of the IP pool.

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

Access
not-accessible

Object
starIPPoolType

Object ID
temporary.8164.1.30.1.1.6

Description
The type of the pool.

Syntax
INTEGER

Access
Read-only
**Enumeration**

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

**Object**

starIPPoolState

**Object ID**

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
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

Object
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

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

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

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.size(4)
queue.delay(5)
license(6)
portutil(7)
rxportutil(8)
txportutil(9)
rxperportutil(10)
txperportutil(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**
ablessible-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**
ablessible-for-notify

**Object**
starContextName

**Object ID**
enterprise.8164.1.31.5

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

**Syntax**
DisplayString

**Access**
ablessible-for-notify

**Object**
starInterfaceName

**Object ID**
enterprise.8164.1.31.6

**Description**
The name of an interface.

**Syntax**
DisplayString
**Starent Chassis Objects**

**MIB Textual Conventions**

---

**SNMP MIB Reference, StarOS Release 16**

---

**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

---

**Access**

- **accessible-for-notify**

---

**Object**

- **starLicensedSessions**

---

**Object ID**

- **enterprise.8164.1.31.9**

---

**Description**

- The number of sessions enabled by the software license.

---

**Syntax**

- Unsigned32

---

**Access**

- **accessible-for-notify**

---

**Object**

- **starCurrentSessions**

---
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

Object
  starL3Address

Object ID
  enterprise.8164.1.31.11

Description
  L3 Address

Syntax
  IpAddress

Access
  accessible-for-notify

Object
  starUDPPortNum

Object ID
  enterprise.8164.1.31.12

Description
  UDP Port Number

Syntax
  Integer32(1..65535)

Access
  accessible-for-notify

Object
  starSRPIPAddress

Object ID
  enterprise.8164.1.31.13

Description
  SRP IP Address
Syntax
IpAddress

Access
accessible-for-notify

Object
starBGPPeerIPAddress

Object ID
enterprise.8164.1.31.14

Description
BGP Peer IP Address

Syntax
IpAddress

Access
accessible-for-notify

Object
starContFiltCFFilename

Object ID
enterprise.8164.1.31.15

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

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
test.8164.1.31.17

Description
The total number of calls fetched from AAA Manager

Syntax
Integer32

Access
accessible-for-notify

Object
starPriorToAudit

Object ID
test.8164.1.31.18

Description
The number calls prior to audit

Syntax
Integer32

Access
accessible-for-notify

Object
starPassedAudits

Object ID
test.8164.1.31.19

Description
The number calls passed audit

Syntax
Integer32

Access
accessible-for-notify

Object
starCallsRecovered

Object ID
test.8164.1.31.20
Description
The number of calls recovered

Syntax
Integer32

Access
accessible-for-notify

Object
starA11CallLines

Object ID
enterprise.8164.1.31.21

Description
The number of A11 call lines

Syntax
Integer32

Access
accessible-for-notify

Object
starElapsedMs

Object ID
enterprise.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

Access
accessible-for-notify

Object
starDiameterEndpointName

Object ID
enterprise.8164.1.31.26

Description
Diameter Endpoint Name

Syntax
DisplayString

Access
accessible-for-notify

Object
starInterfaceIPAddress
### Starent Chassis Objects

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<td>Interface IP Address</td>
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Syntax
StarOSPFNeighborState

Access
accessible-for-notify

Object
starBLFilename

Object ID
enterprise.8164.1.31.31

Description
File name for the OPTBLDB

Syntax
Display STRING

Access
accessible-for-notify

Object
starBLErrorCode

Object ID
enterprise.8164.1.31.31

Description
Error code

Syntax
Current

Access
accessible-for-notify

Object
starDiameterEncoderString

Object ID
enterprise.8164.1.31.31

Description
Diameter Cause Code String

Syntax
Display STRING

Access
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<td>hostrealmismatch(3)</td>
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<td>securitymismatch(4)</td>
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Starent Chassis Objects

Syntax
DisplayString

Access
accessible-for-notify

Object
starContFiltCFUpgradeErrorCode

Object ID
enterprise.8164.1.31.36

Description
Error code

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

Access
accessible-for-notify

Object
starBLUpgradeFilename

Object ID
enterprise.8164.1.31.37

Description
File name for the Full OPTBLDB

Syntax
DisplayString

Access
accessible-for-notify

Object
starBLUpgradeErrorCode

Object ID
enterprise.8164.1.31.38

Description
Error code

Syntax
unknownerror(1)
upgradefullfailure(2)

**Access**
accessible-for-notify

**Object**
starDynPkgFilename

**Object ID**
enterprise.8164.1.31.39

**Description**
File name for the DynPkg

**Syntax**
DisplayString

**Access**
accessible-for-notify

**Object**
starDynCFErrorCode

**Object ID**
enterprise.8164.1.31.40

**Description**
Error code

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

**Access**
accessible-for-notify

**Object**
starDynPkgUpgradeFilename

**Object ID**
enterprise.8164.1.31.41

**Description**
File name for the Full DynPkg

**Syntax**
DisplayString
Access
accessible-for-notify

Object
starDynCFUpgradeErrorCode

Object ID
enterprise.8164.1.31.42

Description
Error code

Syntax
unknownerror(1)
upgradefullfailure(2)

Access
accessible-for-notify

Object
starCscfSessCongestionResourceType

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
### Starent Chassis Objects

**Object**

**starEGTPVpnName**

**Object ID**
enterprise.8164.1.31.45

**Description**
The name of this VPN (context)

**Syntax**
DisplayString

**Access**
ablessible-for-notify

---

**Object**

**starEGTPServName**

**Object ID**
enterprise.8164.1.31.46

**Description**
The name of this service

**Syntax**
DisplayString

**Access**
ablessible-for-notify

---

**Object**

**starEGTPInterfaceType**

**Object ID**
enterprise.8164.1.31.47

**Description**
Egtp interface type

**Syntax**
INTEGER

**Access**
ablessible-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
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<tbody>
<tr>
<td>starEGTPPeerOldRstCnt</td>
<td>EGTP peer old restart counter</td>
<td>Gauge32</td>
<td>accessible-for-notify</td>
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<tr>
<td>enterprise.8164.1.31.52</td>
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<td>starEGTPPeerNewRstCnt</td>
<td>EGTP peer new restart counter</td>
<td>Gauge32</td>
<td>accessible-for-notify</td>
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<tr>
<td>enterprise.8164.1.31.53</td>
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<td>starEGTPPeerSessCnt</td>
<td>EGTP peer session count</td>
<td>Gauge32</td>
<td>accessible-for-notify</td>
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<tr>
<td>enterprise.8164.1.31.54</td>
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<td>starEGTPFailureReason</td>
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<tr>
<td><strong>Object ID</strong></td>
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<td>-------------------------</td>
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<tr>
<td><strong>Description</strong></td>
<td>Egtp path failure reason</td>
<td></td>
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</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>INTEGER</td>
<td></td>
<td></td>
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<tr>
<td><strong>Access</strong></td>
<td>accessible-for-notify</td>
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<tr>
<td><strong>Object</strong></td>
<td>starGSSCDRLossConfigured</td>
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</table>

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<thead>
<tr>
<th><strong>Object ID</strong></th>
<th>enterprise.8164.1.31.56</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The configured value of threshold CDR Loss at GSS</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Unsigned32</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>accessible-for-notify</td>
</tr>
<tr>
<td><strong>Object</strong></td>
<td>starGSSCDRLossMeasured</td>
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<tr>
<th><strong>Object ID</strong></th>
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<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The Measured value of CDR Loss at GSS</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Unsigned32</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>accessible-for-notify</td>
</tr>
<tr>
<td><strong>Object</strong></td>
<td>starLicenseKey</td>
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<tr>
<th><strong>Object ID</strong></th>
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</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The license key</td>
</tr>
</tbody>
</table>
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

Description
The number of days remaining before the license expires

Syntax
Unsigned32

Access
accessible-for-notify

Object
starLicenseDaysAfterExpiry

Object ID
enterprise.8164.1.31.61

Description
The number of days after the license has expired

Syntax
Unsigned32

Access
accessible-for-notify
Object
starNPUSlot

Object ID
enterprise.8164.1.31.62

Description
The NPU slot number

Syntax
Integer32

Access
accessible-for-notify

Object
starSPRServerIpAddr

Object ID
enterprise.8164.1.31.63

Description
The IP Address of the SSC Server

Syntax
IpAddress

Access
accessible-for-notify

Object
starMVGEndpointName

Object ID
enterprise.8164.1.31.66

Description
MVG Endpoint Name.

Syntax
DisplayString

Access
accessible-for-notify

Object
starMVGProtocolType

Object ID
enterprise.8164.1.31.68
**MVB Protocol Types.**

**Syntax**

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

**Access**

accessible-for-notify

**Object**

starMVGCauseCode

**Object ID**

enterprise.8164.1.31.69

**MVG Cause Code.**

**Syntax**

```
INTEGER {
  servernotreachable(1)
  servicereachable(2)
}
```

**Access**

accessible-for-notify

**Object**

starPCCNtfyIntfPeerName

**Object ID**

enterprise.8164.1.31.73

**IPCF Event Notification Interface Peer Name**

**DisplayString**

**Access**

accessible-for-notify

**Object**

starECSTotalDNSLearntIPThresholdInstance

**Object ID**

enterprise.8164.1.31.74
Description
ACSMgr Instance Id

Syntax
Integer32(1..65535)

Access
accessible-for-notify

Object
starECSTotalDNSLearntIPThresholdconfigured

Object ID
enterprise.8164.1.31.75

Description
Configured Threshold value in Percentage

Syntax
Integer32 (1..100)

Access
accessible-for-notify

Object
starECSTotalDNSLearntIPThresholdmeasured

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

**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

Object ID
enterprise.8164.1.31.96

Description
HENBGW Service Self IP Address.

Syntax
IpAddress

Access
not-accessible

Object
starHENBGWServicePeerAddr

Object ID
enterprise.8164.1.31.97

Description
HENBGW Service Peer IP Address.

Syntax
IpAddress
### Starent Chassis Objects

<table>
<thead>
<tr>
<th>Access</th>
<th>accessible-for-notify</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object</strong></td>
<td>starHENBGWServiceSelfPort</td>
</tr>
</tbody>
</table>

#### Object ID
enterprise.8164.1.31.98

#### Description
HENBGW Service Self Port Number.

#### Syntax
Integer32(1..65535)

<table>
<thead>
<tr>
<th>Access</th>
<th>not-accessibley</th>
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<tbody>
<tr>
<td><strong>Object</strong></td>
<td>starHENBGWServicePeerPort</td>
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</tbody>
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#### Object ID
enterprise.8164.1.31.99

#### Description
HENBGW Service Peer Port Number.

#### Syntax
Integer32(1..65535)

<table>
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<td><strong>Object</strong></td>
<td>starNPUSlotNumber</td>
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#### Object ID
enterprise.8164.1.31.100

#### Description
NPU Slot Number.

#### Syntax
Integer32(1..65535)

<table>
<thead>
<tr>
<th>Access</th>
<th>accessible-for-notify</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object</strong></td>
<td>starNPUCPUNumber</td>
</tr>
</tbody>
</table>
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

Object
starPMIPvPnName

Object ID
enterprise.8164.1.31.105

Description
The name of this VPN (context)

Syntax
DisplayString

Access
accessible-for-notify

Object
starPMIPServName

Object ID
enterprise.8164.1.31.105

Description
The name of this service
Syntax
DisplayString

Access
accessible-for-notify

Object
starPMIPSelfAddrType

Object ID
terprise.8164.1.31.105

Description
The IP Address of the PMIP

Syntax
InetAddressType

Access
accessible-for-notify

Object
starPMIPSelfAddr

Object ID
terprise.8164.1.31.105

Description
The IP Address of the PMIP

Syntax
InetAddress

Access
accessible-for-notify

Object
starPMIPPeerAddrType

Object ID
terprise.8164.1.31.105

Description
The IP Address of the PMIP

Syntax
InetAddressType

Access
accessible-for-notify
Object
starPMIPPeerAddr

Object ID
telephone.8164.1.31.105

Description
The IP Address of the PMIP

Syntax
InetAddress

Access
accessible-for-notify

Object
starPMIPPeerOldRstCnt

Object ID
telephone.8164.1.31.105

Description
PMIP peer old restart counter

Syntax
Counter32

Access
accessible-for-notify

Object
starPMIPPeerNewRstCnt

Object ID
telephone.8164.1.31.105

Description
PMIP peer new restart counter

Syntax
Counter32

Access
accessible-for-notify

Object
starPMIPPeerSessCnt

Object ID
telephone.8164.1.31.105
Starent Chassis Objects

Starent Chassis Objects

MIB Textual Conventions

SNMP MIB Reference, StarOS Release 16

256

Description
PMIP peer session count

Syntax
Counter32

Access
accessible-for-notify

Object
starPMIPFailureReason

Object ID
enterprise.8164.1.31.105

Description
PMIP path failure reason

Syntax
INTEGER

Access
accessible-for-notify

Object
starMMEInitialDisallowReason

Object ID
enterprise.8164.1.31.105

Description
MME initial connection disallow reason.

Syntax
DisplayString

Access
accessible-for-notify

Object
starSLSServiceVpnName

Object ID
enterprise.8164.1.31.117

Description
SLS service context name

Syntax
DisplayString
**Access**

accessible-for-notify

**Object**

starSLSServiceServName

**Object ID**

enterprise.8164.1.31.118

**Description**

SLS service name

**Syntax**

DisplayString

**Access**

accessible-for-notify

**Object**

starESMLCId

**Object ID**

enterprise.8164.1.31.110

**Description**

ESMLC Id

**Syntax**

Integer32(0..255)

**Access**

accessible-for-notify

**Object**

starESMLCIpAddr1

**Object ID**

enterprise.8164.1.31.120

**Description**

ESMLC IP Address1

**Syntax**

IpAddress

**Access**

accessible-for-notify

**Object**

starESMLCIpAddr2
**Object ID**
enterprise.8164.1.31.121

**Description**
ESMLC IP Address2

**Syntax**
IpAddress

**Access**
accessible-for-notify

**Object**
starESMLCPortNum

**Object ID**
enterprise.8164.1.31.122

**Description**
ESMLC Port Number

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

**Access**
accessible-for-notify

**Object**
starSBCServiceVpnName

**Object ID**
enterprise.8164.1.31.123

**Description**
SBc service context name

**Syntax**
DisplayString

**Access**
accessible-for-notify

**Object**
starSBCServiceServName

**Object ID**
enterprise.8164.1.31.124

**Description**
SBc service name
Syntax
DisplayString

Access
accessible-for-notify

Object
starPeerId

Object ID
enterprise.8164.1.31.125

Description
Peer Id

Syntax
DisplayString

Access
accessible-for-notify

Object
starPeerIpAddr

Object ID
enterprise.8164.1.31.126

Description
Peer IP Address

Syntax
IpAddress

Access
accessible-for-notify

Object
starPeerPortNum

Object ID
enterprise.8164.1.31.127

Description
Peer Port Number

Syntax
Integer32(1..65535)

Access
accessible-for-notify
**Object**

starBfdSrcAddressType

**Object ID**
enterprise.8164.1.31.128

**Description**
This object specifies the IP address type of the source IP address for this BFD session. Only values unknown(0), ipv4(1), ipv6(2), or ipv6z(4) have to be supported. The value of unknown(0) is allowed only when the session is singleHop(1) and the source IP address of this BFD session is derived from the outgoing interface or when the BFD session is not associated with a specific interface.

**Syntax**
InetAddressType

**Access**
accessible-for-notify

---

**Object**

starBfdSrcAddress

**Object ID**
enterprise.8164.1.31.129

**Description**
This object specifies the source IP address of this BFD session.

**Syntax**
InetAddress

**Access**
accessible-for-notify

---

**Object**

starBfdDstAddressType

**Object ID**
enterprise.8164.1.31.130

**Description**
This object specifies the IP address type of the neighboring IP address which is being monitored with this BFD session. Only values unknown(0), ipv4(1), ipv6(2), or ipv6z(4) have to be supported. The value of unknown(0) is allowed only when the session is singleHop(1) and the outgoing interface is of type point-to-point or when the BFD session is not associated with a specific interface.

**Syntax**
InetAddressType

**Access**
accessible-for-notify
### starBfdDstAddress

**Object ID**  
enterprise.8164.1.31.131

**Description**  
This object specifies the neighboring IP address which is being monitored with this BFD session.

**Syntax**  
InetAddress

**Access**  
accessible-for-notify

### starBfdLocalDisc

**Object ID**  
enterprise.8164.1.31.132

**Description**  
This object specifies the local discriminator for this BFD session used to uniquely identify it.

**Syntax**  
Unsigned32

**Access**  
accessible-for-notify

### starBfdRemDisc

**Object ID**  
enterprise.8164.1.31.133

**Description**  
This object specifies the session discriminator chosen by the remote system for this BFD session. The value may be zero(0) if the remote discriminator is not yet known or if the session is in the down or adminDown(1) state.

**Syntax**  
Unsigned32

**Access**  
accessible-for-notify

### starBfdSessDiagCode
Object ID

enterprise.8164.1.31.134

Description

A diagnostic code specifying the local system's reason for the last transition of the session from up(4) to some other state.

Syntax

INTEGER {noDiagnostic(0), controlDetectionTimeExpired(1), echoFunctionFailed(2), neighborSignaledSessionDown(3), forwardingPlaneReset(4), pathDown(5), concatenatedPathDown(6), administrativelyDown(7), reverseConcatenatedPathDown(8), misConnectivityDefect(9)}

Access

accessible-for-notify

Object

starSRPSwitchReason

Object ID

enterprise.8164.1.31.135

Description

A Switchover code specifying the SRP's Switchover reason. The following reasons appear when the chassis transitions from the Active to the Standby.

notDefined(0),

aaaFailure(1),

bgpFailure(2),

bfdFailure(3),

diameterFailure(4),

hsrpSwitchover(5),

dualActive(7)

manualSwitchOver(11),

The following reasons appear when chassis transitioning from the Standby to the Pending Active State:

notDefined(0),

chassisChassisBfdFailure(6),

deadTimerExpiry(9)

Syntax

INTEGER {notDefined(0), aaaFailure(1), bgpFailure(2), bfdFailure(3), diameterFailure(4), hsrpSwitchover(5),

chassisChassisBfdFailure(6), dualActive(7), dualStandby(8), deadTimerExpiry(9), forceStateChange(10),

manualSwitchOver(11)}

Access

accessible-for-notify

Object
starHENBGWServiceTLRI

Object ID
enterprise.8164.1.31.136

Description
HENBGW Service Overload Traffic load reduction indication percentage.

Syntax
Unsigned32

Access
accessible-for-notify

Object
starCBSServiceVpnName

Object ID
enterprise.8164.1.31.139

Description
CBS service context name

Syntax
DisplayString

Access
accessible-for-notify

Object
starIuBcSelfPortNum

Object ID
enterprise.8164.1.31.140

Description
IuBc Self Port Number

Syntax
Integer32(1..65535)

Access
accessible-for-notify

Object
starIuBcSelfIpAddr

Object ID
enterprise.8164.1.31.141
Description
IuBc Self IP Address

Syntax
IpAddress

Access
accessible-for-notify

Object
starIuBcPeerPortNum

Object ID
enterprise.8164.1.31.142

Description
Peer Port Number

Syntax
Integer32(1..65535)

Access
accessible-for-notify

Object
starIuBcPeerIpAddr

Object ID
enterprise.8164.1.31.143

Description
IuBc Peer IP Address

Syntax
IpAddress

Access
accessible-for-notify

Object
starIuBcTcpConnCauseStr

Object ID
enterprise.8164.1.31.144

Description
IuBc Tcp Conn Cause Str

Syntax
DisplayString
### enterprise.8164.1.starentGGSNServic(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>
<th>Syntax</th>
<th>Access</th>
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</thead>
<tbody>
<tr>
<td>starGGSNSerTable</td>
<td>A table containing GGSN related information</td>
<td>SEQUENCE OF StarGGSNSerEntry</td>
<td>not-accessible</td>
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<tr>
<td>Object ID</td>
<td>enterprise.8164.1.32.1</td>
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<tr>
<td>Description</td>
<td>The statistics for a specific GGSN service</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Syntax</td>
<td>StarGGSNSerEntry</td>
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<td></td>
</tr>
<tr>
<td>Access</td>
<td>not-accessible</td>
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<tr>
<td>Sequence</td>
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<td>starSessGGSNImsi</td>
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<td></td>
<td>starSessGGSNSubsName</td>
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</tbody>
</table>
starSessGGSNAPNName
starSessGTPPGroupName

Object
starGGSNSerVpnID

Object ID
time.8164.1.32.1.1.1

Description
The internal identification of the VPN (context)

Syntax
Gauge32

Access
not-accessible

Object
starGGSNSerSvcID

Object ID
time.8164.1.32.1.1.2

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

Syntax
Gauge32

Access
not-accessible

Object
starSessGGSNVpnName

Object ID
time.8164.1.32.1.1.3

Description
The name of this VPN (context)

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
Starent Chassis Objects

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.

<table>
<thead>
<tr>
<th>Object</th>
<th>starSessSub1Context</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.34.1</td>
</tr>
<tr>
<td>Description</td>
<td>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.</td>
</tr>
<tr>
<td>Syntax</td>
<td>DisplayString</td>
</tr>
<tr>
<td>Access</td>
<td>Read-write</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starSessSub1NAI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.34.2</td>
</tr>
<tr>
<td>Description</td>
<td>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.</td>
</tr>
<tr>
<td>Syntax</td>
<td>OCTET STRING (SIZE (1..128))</td>
</tr>
<tr>
<td>Access</td>
<td>Read-write</td>
</tr>
</tbody>
</table>

| 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 the query found exactly one subscriber; multimatch(4) means that more than one subscriber matched; the information for one (random) subscriber was fetched.

Syntax
INTEGER

Access
Read-only

Enumeration
unknown(0)
error(1)
nomatch(2)
onematch(3)
multimatch(4)

Object

starSessSub1ServiceName

Object ID
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:

<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>
</tbody>
</table>
## Starent Chassis Objects

### MIB Textual Conventions

<table>
<thead>
<tr>
<th>Session Type</th>
<th>Peer</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAC</td>
<td>LNS</td>
</tr>
<tr>
<td>LNS</td>
<td>LAC</td>
</tr>
</tbody>
</table>

### starSessSub1InPackets

**Syntax**
IpAddress

**Access**
Read-only

**Object**
starSessSub1InPackets

**Object ID**
enterprise.8164.1.34.9

**Description**
The number of incoming packets for the subscriber

### starSessSub1InPacketsDropped

**Syntax**
Counter32

**Access**
Read-only

**Object**
starSessSub1InPacketsDropped

**Object ID**
enterprise.8164.1.34.10

**Description**
The number of incoming packets dropped for the subscriber

### starSessSub1InBytes

**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
tarSessSub1ConnectTime

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
tarSessSub1CallDuration

Object ID
enterprise.8164.1.34.19

Description
The duration of the call, in seconds

Syntax
Counter32

Units
Seconds

Access
Read-only

Object
tarSessSub1TimeIdle

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

Object ID
enterprise.8164.1.34.21

Description
The access type for the subscriber.

Syntax
INTEGER

Access
Read-only

Enumeration
unknown(0)
pdsnsimpleip(1)
pdsnmobileip(2)
hamobileip(3)
ggsnpdptypeipv4(4)
ggsnpdptypeppp(5)
ggsnpdptypeipv6(6)
lnsl2tp(7)
haipsec(8)
ipsge(9)
pdssiipmip(10)
impproxifya(11)
imsa(12)
bcmsccs(13)
ggsnmip(14)
ipprobe(15)
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
Starent Chassis Objects

MIB Textual Conventions

SNMP MIB Reference, StarOS Release 16

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
<table>
<thead>
<tr>
<th>Object ID</th>
<th>Description</th>
<th>Syntax</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>starSessSub1RemoteIPAddr</td>
<td>Remote IP Address</td>
<td>IpAddress</td>
<td>Read-only</td>
</tr>
<tr>
<td>starSessSub1Card</td>
<td>The card holding the session manager for this session. Use in combination with starSessSub1CPU.</td>
<td>Integer32(1..16)</td>
<td>Read-only</td>
</tr>
<tr>
<td>starSessSub1CPU</td>
<td>The CPU holding the session manager for this session. Use in combination with starSessSub1Card</td>
<td>Integer32(0..3)</td>
<td>Read-only</td>
</tr>
</tbody>
</table>
**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

Object
  starSessSub1VLANID
Object ID
enterprise.8164.1.34.38

Description
0 is returned if this is not applicable

Syntax
Unsigned32

Access
Read-only

Object
starSessSub1LNSIPAddr

Object ID
enterprise.8164.1.34.39

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

Syntax
IpAddress

Access
Read-only

Object
starSessSub1ProxyMIP

Object ID
enterprise.8164.1.34.40

Syntax
INTEGER

Access
Read-only

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

Object
starSessSub1GGSNMIP

Object ID
enterprise.8164.1.34.41
### 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 starSessSub1GGSNMP is enabled(1)

If not applicable, a value of 0.0.0.0 will be returned

**Syntax**
IpAddress

---

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

If not applicable, a value of 0.0.0.0 will be returned

**Syntax**
IpAddress
Access
Read-only

Object
starSessSub1FAServiceName

Object ID
enterprise.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
enterprise.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
enterprise.8164.1.34.46

Description
The Source VPN (Context) name.
Syntax
DisplayString

Access
Read-only

Object
starSessSub1DestVPN

Object ID
enterprise.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
starSessSub1AAAStart

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

Access
Read-only
Object
starSessSub1ActiveInACL

Object ID
textenterprise.8164.1.34.59

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

Access
Read-only

Object
starSessSub1ActiveOutACL

Object ID
textenterprise.8164.1.34.60

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

Access
Read-only

Object
starSessSub1ECSRulebase

Object ID
textenterprise.8164.1.34.61

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

Access
Read-only

Object
starSessSub1InPlcyGrp

Object ID
textenterprise.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)

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)

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)

Syntax
  StarQOSTPAction

Access
  Read-only
  
  Object
  starSessSub1UpViolateAction

Object ID
  enterprise.8164.1.34.77

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

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), other 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), other it will be 0.0.0.0.

Syntax
IpAddress

Access
Read-only

Object
starSessSub1AddrViaDHCP

Object ID
enterprise.8164.1.34.83

Syntax
Integer

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
**Starent Chassis Objects**

**MIB Textual Conventions**

**SNMP MIB Reference, StarOS Release 16**

**Syntax**

Integer

**Access**

Read-only

**Object**

```plaintext
starSessSub1MIPGratARPMode
```

**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**

```plaintext
starSessSub1ExtInlSrvrProc
```

**Object ID**

enterprise.8164.1.34.89

**Description**

The state of external inline server processing

**Syntax**

Integer

**Access**

Read-only

**Object**

```plaintext
starSessSub1ExtInlSrvrIngrIPAddr
```

**Object ID**

enterprise.8164.1.34.90

**Description**

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

**Syntax**

IP Address

**Access**

Read-only
Object
starSessSub1ExtInlSrvrIngrVLANTag

Object ID
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

Object
starSessSub1ExtInlSrvrVPNNName

Object ID
enterprise.8164.1.34.94
Description
The external inline server context (VPN). This value is only valid if starSessSub1ExtInlSrvrProc is enabled(1)

Syntax
DisplayString

Access
Read-only

Object
starSessSub1RadAcctMode

Object ID
enterprise.8164.1.34.95

Description
Radius Accounting Mode

Syntax
Integer

Access
Read-only

Object
starSessSub1InBytesDropped

Object ID
enterprise.8164.1.34.96

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

Syntax
Counter32

Access
Read-only

Object
starSessSub1OutBytesDropped

Object ID
enterprise.8164.1.34.97

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

Syntax
Counter32
<table>
<thead>
<tr>
<th>Access</th>
<th>Read-only</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object</strong></td>
<td>starSessSub1PeakBPSTx</td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.34.98</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Peak rate from user, in bytes per second.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Gauge32</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Access</th>
<th>Read-only</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object</strong></td>
<td>starSessSub1PeakBPSRx</td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.34.99</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Peak rate to user, in bytes per second.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Gauge32</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Access</th>
<th>Read-only</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object</strong></td>
<td>starSessSub1AveBPSTx</td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.34.100</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Average rate from user, in bytes per second.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Gauge32</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Access</th>
<th>Read-only</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object</strong></td>
<td>starSessSub1AveBPSRx</td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.34.100</td>
</tr>
</tbody>
</table>
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.
Starent Chassis Objects

MIB Textual Conventions

SNMP MIB Reference, StarOS Release 16

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.

Syntax
Gauge32

Access
Read-only
<table>
<thead>
<tr>
<th>Object</th>
<th>starSessSub1SustPPSTx</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.34.108</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Sustained rate from user, in packets per second.</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>starSessSub1SustPPSRx</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.34.109</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Sustained rate to user, in packets per second</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>starSessSub1ActivePct</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.34.110</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Link online/active percentage.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Integer32(0..100)</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>Read-only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starSessSub1IPv4BadHdr</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.34.111</td>
</tr>
</tbody>
</table>
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

enterprise.8164.1.34.125

Description

IPv4 Source Violations No Account

Syntax

Counter32

Access

Read-only

Object

starSessSub1IPv4SrcViolIgnored

Object ID

enterprise.8164.1.34.126

Description

IPv4 Source Violations Ignored

Syntax

Counter32

Access

Read-only

Object

starSessSub1ExtInlSrvrTxPkt

Object ID

enterprise.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
terprise.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 ggsnpdptypeppppp(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 ggsnpdptypeppppp(5)

Syntax  
Counter32
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
tenterprise.8164.1.35.1.1.1

Description
The Name for this Network Reachable Server

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

Access
accessible-for-notify

Object
starNwReachSrvrAddr

Object ID
tenterprise.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.

Object
starIPSECCContextName

Object ID
enterprise.8164.1.36.1

Description
The name of a context

Syntax
DisplayString

Access
accessible-for-notify

Object
starIPSECGroupName

Object ID
enterprise.8164.1.36.2

Description
The name of a crypto map

Syntax
DisplayString

Access
accessible-for-notify

Object
starIPSECTunLocalIPAddr

Object ID
enterprise.8164.1.36.3
### starIPSECTunRemoteIPAddr

**Description**
The local IP Address for an IPSEC tunnel

**Syntax**
DisplayString

**Access**
accessible-for-notify

**Object ID**
enterprise.8164.1.36.4

---

### starIPSECPolicyName

**Description**
An IPSEC policy name

**Syntax**
DisplayString

**Access**
accessible-for-notify

**Object ID**
enterprise.8164.1.36.5

---

### starIPSECDynPolicyType

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

**Syntax**
Integer
Access
accessible-for-notify

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

Object
starIPSECDynPolicyPayloadType

Object ID
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

Object
starIPSECRemoteGateway

Object ID
enterprise.8164.1.36.9
**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**

<table>
<thead>
<tr>
<th>starSIPRouteVpnID</th>
<th>Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>starSIPRouteVpnName</td>
<td>Index</td>
</tr>
<tr>
<td>starSIPRouteVmgName</td>
<td></td>
</tr>
<tr>
<td>starSIPRouteAsName</td>
<td></td>
</tr>
<tr>
<td>starSIPRouteDestPartyNum</td>
<td></td>
</tr>
</tbody>
</table>
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

starSIPRouteVpnName

**Object ID**
enterprise.8164.1.37.1.1.2

**Description**
The name of this VPN (context)

**Syntax**
DisplayString

**Access**
Read-only

starSIPRouteVmgName

**Object ID**
enterprise.8164.1.37.1.1.3

**Description**
The name of this VMG (context)

**Syntax**
DisplayString

**Access**
Read-only

starSIPRouteAsName
Object ID
enterprise.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
text.8164.1.38.1.1

Syntax
StarRPServiceOptionEntry

Access
not-accessible

Sequence
starRPServiceOptionNum
starRPServiceOptionCalls

Object
starRPServiceOptionNum

Object ID
text.8164.1.38.1.1.1

Syntax
Integer32(1..255)

Access
not-accessible

Object
starRPServiceOptionCalls

Object ID
text.8164.1.38.1.1.2

Syntax
Gauge32

Access
Read-only

text.8164.1.starentPCFStats(39)
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
starPCFStatCurrentPMPConnected
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

---

### starPCFStatIpAddr

**Object ID**

enterprise.8164.1.39.1.1.2

**Description**

The IP address of the specific PCF.

**Syntax**

IpAddress

**Access**

not-accessible

---

### starPCFStatVpnName

**Object ID**

enterprise.8164.1.39.1.1.3

**Description**

The name of the VPN (context).

**Syntax**

DisplayString

**Access**

Read-only

---

### 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.

Syntax
Gauge32

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
time.8164.1.39.2

Description
A table of per service PCF statistics

Syntax
Gauge32

Access
Read-only

Object
starPCFEntry

Object ID
time.8164.1.39.2.1

Description
The statistics for a specific PCF per service

Syntax
StarPCFEntry

Access
not-accessible

Object
starPCFSvcID

Object ID
time.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
enterprise.8164.1.39.2.1.8

Description
Number of rrq denied.

Syntax
Counter32

Access
Read-only
Object
starPCFRrqDiscarded

Object ID
enterprise.8164.1.39.2.1.9

Description
Number of rrq discarded.

Syntax
Counter32

Access
Read-only

Object
starPCFInitialRrqRcvd

Object ID
enterprise.8164.1.39.2.1.10

Description
Initial rrq received.

Syntax
Counter32

Access
Read-only

Object
starPCFInitialRrqAccepted

Object ID
enterprise.8164.1.39.2.1.11

Description
Initial rrq accepted.

Syntax
Counter32

Access
Read-only

Object
starPCFIntraPDSNAciveHORrqAccepted

Object ID
enterprise.8164.1.39.2.1.12
Intra PDSN active handoff rrq accepted.

Syntax
Counter32

Access
Read-only

Object
starPCFIntraPDSNDormantHORrqAccepted

Object ID
enterprise.8164.1.39.2.1.13

Intra PDSN dormant handoff rrq accepted.

Syntax
Counter32

Access
Read-only

Object
starPCFInterPDSNHORrqAccepted

Object ID
enterprise.8164.1.39.2.1.14

Inter PDSN handoff rrq accepted.

Syntax
Counter32

Access
Read-only

Object
starPCFInitialRrqDenied

Object ID
enterprise.8164.1.39.2.1.15

Intial rrq denied.
Access
Read-only

Object
starPCFInitialRrqDiscarded

Object ID
terprise.8164.1.39.2.1.16

Description
Initial rrq discarded.

Syntax
Counter32

Access
Read-only

Object
starPCFRenewRrqRcvd

Object ID
terprise.8164.1.39.2.1.17

Description
Renew rrq received.

Syntax
Counter32

Access
Read-only

Object
starPCFRenewRrqAccepted

Object ID
terprise.8164.1.39.2.1.18

Description
Renew rrq 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 rq 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.

Syntax
Counter32

Access
Read-only

Object
starPCFDeregDormantRrqAccepted

Object ID
enterprise.8164.1.39.2.1.25

Description
Deregistration dormant rrq accepted.
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
  starPCFIntraPDSNAcceptedAnidHORrqAccepted

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 anidhandoff 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

Access
Read-only

Object
starPCFDeniedAdmProh

Object ID
enterprise.8164.1.39.2.1.32

Description
Denied insufficient resources.

Syntax
Counter32
<table>
<thead>
<tr>
<th>Object ID</th>
<th>Description</th>
<th>Syntax</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>enterprise.8164.1.39.2.1.33</td>
<td>Denied mobile node authentication failure.</td>
<td>Counter32</td>
<td>Read-only</td>
</tr>
<tr>
<td>enterprise.8164.1.39.2.1.34</td>
<td>Denied identification mismatch.</td>
<td>Counter32</td>
<td>Read-only</td>
</tr>
<tr>
<td>enterprise.8164.1.39.2.1.35</td>
<td>Denied poor formed request.</td>
<td>Counter32</td>
<td>Read-only</td>
</tr>
</tbody>
</table>

**Starent Chassis Objects**

**MIB Textual Conventions**

**Access**
- Read-only

**Object**
- starPCFDeniedMobNodeAuthFail

**Object ID**
- enterprise.8164.1.39.2.1.33

**Description**
- Denied mobile node authentication failure.

**Syntax**
- Counter32

**Access**
- Read-only

**Object**
- starPCFDeniedIdentMismatch

**Object ID**
- enterprise.8164.1.39.2.1.34

**Description**
- Denied identification mismatch.

**Syntax**
- Counter32

**Access**
- Read-only

**Object**
- starPCFDeniedPoorFormedReq

**Object ID**
- enterprise.8164.1.39.2.1.35

**Description**
- Denied poor formed request.

**Syntax**
- Counter32

**Access**
- Read-only

**Object**
- starPCFDeniedUnknownPDSNAAddr
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 unavilable.

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
<table>
<thead>
<tr>
<th>Object</th>
<th>starPCFRegUpdAccepted</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.39.2.1.43</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Registration updates accepted.</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>starPCFRegUpdateRpLifetimeExpiry</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.39.2.1.44</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Registration update rp life time expiry.</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>starPCFRegUpdateUpperLayerInitiated</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.39.2.1.45</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Registration update upper layer intiated</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>starPCFRegUpdateOtherReason</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.39.2.1.46</td>
</tr>
</tbody>
</table>
Description
Registration update other reason.

Syntax
Counter32

Access
Read-only

Object
starPCFRegUpdateHORelease

Object ID
textenterprise.8164.1.39.2.1.47

Description
Registration update handoff release.

Syntax
Counter32

Access
Read-only

Object
starPCFRegUpdateSessmgrDied

Object ID
textenterprise.8164.1.39.2.1.48

Description
Registration update sessmgr denied.

Syntax
Counter32

Access
Read-only

Object
starPCFAuxA10ConnectionsSetup

Object ID
textenterprise.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

Object ID
enterprise.8164.1.39.2.1.52

Description
Number of PCF sessions renegotiated.

Syntax
Counter32

Access
Read-only

Object
starPCFDiscLcpRemote
Starent Chassis Objects

Object ID
enterprise.8164.1.39.2.1.53

Description
Disconnect reason lcp remote.

Syntax
Counter32

Access
Read-only

Object
starPCFDiscRpRemote

Object ID
enterprise.8164.1.39.2.1.54

Description
Disconnect reason rp remote.

Syntax
Counter32

Access
Read-only

Object
starPCFDiscRpLocal

Object ID
enterprise.8164.1.39.2.1.55

Description
Disconnect reason rp local.

Syntax
Counter32

Access
Read-only

Object
starPCFDiscMaxIpcpRetr

Object ID
enterprise.8164.1.39.2.1.56

Description
Disconnect reason ppp maximum ipcp retries.
**StarPCFDiscMaxIpv6cpRetr**

**Object ID**
enterprise.8164.1.39.2.1.57

**Description**
Disconnect reason max ipv6cp retries.

**Syntax**
Counter32

**Access**
Read-only

---

**StarPCFDiscMaxLcpRetr**

**Object ID**
enterprise.8164.1.39.2.1.58

**Description**
Disconnect reason max lcp retries.

**Syntax**
Counter32

**Access**
Read-only

---

**StarPCFDiscAuthFail**

**Object ID**
enterprise.8164.1.39.2.1.59

**Description**
Disconnect reason authentication failure.

**Syntax**
Counter32

**Access**
Read-only
Object
starPCFDiscSessSetupTimeout

Object ID
terprise.8164.1.39.2.1.60

Description
Disconnect reason session setup timeout.

Syntax
Counter32

Access
Read-only

Object
starPCFDiscFlowAddFail

Object ID
terprise.8164.1.39.2.1.61

Description
Disconnect reason flow add failure.

Syntax
Counter32

Access
Read-only

Object
starPCFDiscInvDestContext

Object ID
terprise.8164.1.39.2.1.62

Description
Disconnect reason invalid destination context.

Syntax
Counter32

Access
Read-only

Object
starPCFDiscLcpOptFail

Object ID
terprise.8164.1.39.2.1.63
Description
Disconnect reason lcp option failure.

Syntax
Counter32

Access
Read-only

Object
starPCFDiscIpcpOptFail

Object ID
tenterprise.8164.1.39.2.1.64

Description
Disconnect reason ipv6cp option failure.

Syntax
Counter32

Access
Read-only

Object
starPCFDiscIpv6cpOptFail

Object ID
tenterprise.8164.1.39.2.1.65

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 misallaneous.

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.
### Starent Chassis Objects

**enterprise.8164.1.39.2.1.74**

**Description**
Reva session release

**Syntax**
Counter32

**Access**
Read-only

**Object**
starPCFRevaSessionsRelease

**Object ID**
enterprise.8164.1.39.2.1.74

---

### 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

**Access**
not-accessible

**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
description
starSIPRouteServerVpnName
description
starSIPRouteServerVmgName
description
starSIPRouteServerAsName
description
starSIPRouteServerIpAddr
description

Object
starSIPRouteServerVpnID

Object ID
time.8164.1.40.1.1.1

Description
The internal identification of the VPN (context).

Syntax
Gauge32

Access
not-accessible

Object
starSIPRouteServerVpnName

Object ID
time.8164.1.40.1.1.2

Description
The name of the VPN (context).

Syntax
DisplayString

Access
Read-only

Object
starSIPRouteServerVmgName

Object ID
time.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
starVIMServiceVpnName

Object ID
enterprise.8164.1.41.1.1.2

Description
The name of this VPN (context)
Syntax
DisplayString

Access
Read-only

Object
starVIMServiceInstanceId

Object ID
enterprise.8164.1.41.1.3

Description
The VIM Instance ID

Syntax
Unsigned32

Access
accessible-for-notify

Object
starVIMServiceFMDMaxCallRate

Object ID
enterprise.8164.1.41.1.4

Description
Configured FMD max call rate

Syntax
Unsigned32

Units
Calls per Minute

Access
Read-only

Object
starVIMServiceFMDContinuousLoadCount

Object ID
enterprise.8164.1.41.1.5

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.

<table>
<thead>
<tr>
<th>Object</th>
<th>Object ID</th>
<th>Description</th>
<th>Syntax</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>starGSSClusterName</td>
<td>enterprise.8164.1.42.1</td>
<td>The name of the Storage Server Cluster</td>
<td>DisplayString</td>
<td>accessible-for-notify</td>
</tr>
<tr>
<td>starGSSClusterNodeName</td>
<td>enterprise.8164.1.42.2</td>
<td>The name of a node within a Storage Server Cluster</td>
<td>DisplayString</td>
<td>accessible-for-notify</td>
</tr>
<tr>
<td>starGSSClusterRgName</td>
<td>enterprise.8164.1.42.3</td>
<td>The name of the Storage Server Cluster Resource Group</td>
<td>DisplayString</td>
<td></td>
</tr>
</tbody>
</table>
Object: starGSSClusterRsName

Object ID: enterprise.8164.1.42.4

Description: The name of the Storage Server Cluster Resource

Syntax: DisplayString

Access: accessible-for-notify

Object: starGSSClusterNodeState

Object ID: enterprise.8164.1.42.5

Description: Status of the Storage Server Cluster node

Syntax: DisplayString

Access: accessible-for-notify

Object: 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

Syntax
DisplayString

Access
accessible-for-notify

Object
starGSSTransportPath

Object ID
enterprise.8164.1.42.10

Description
Path information of Storage Server for data transportation
Syntax
DisplayString

Access
accessible-for-notify

Object
starGSSIPMPGroupName

Object ID
enterprise.8164.1.42.11

Description
Name of the IPMP group for GSS

Syntax
DisplayString

Access
accessible-for-notify

Object
starGSSInterfaceName

Object ID
enterprise.8164.1.42.12

Description
Name of the GSS interface

Syntax
DisplayString

Access
accessible-for-notify

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
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
enterprise.8164.1.43.7
Description
Number of current PDIF child SAs for the chassis

Syntax
Gauge32

Access
Read-only

enterprise.8164.1.starentPDIFService(44)

Object
starPDIFTable

Object ID
enterprise.8164.1.44.1

Description
A table of per-service PDIF information

Syntax
SEQUENCE OF StarPDIFEntry

Access
not-accessible

Object
starPDIFEntry

Object ID
enterprise.8164.1.44.1.1

Description
The information for a PDIF service

Syntax
StarPDIFEntry

Access
not-accessible

Sequence
starPDIFSvcID
StarShortID
starPDIFVpnID Gauge32
starPDIFVpnName DisplayString
starPDIFServName DisplayString
<table>
<thead>
<tr>
<th>Object</th>
<th>starPDIFSvcID</th>
</tr>
</thead>
</table>

**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

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

**Object ID**
enterprise.8164.1.44.1.1.2

**Description**
The internal VPN (context) ID.

**Syntax**
Gauge32

**Access**
Read-only
starPDIFVpnName

Object ID
enterprise.8164.1.44.1.1.3

Description
The VPN (context) name.

Syntax
DisplayString

Access
Read-only

starPDIFServName

Object ID
enterprise.8164.1.44.11.1.4

Description
The name of this service

Syntax
DisplayString

Access
Read-only

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
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
Starent Chassis Objects

MIB Textual Conventions

SNMP MIB Reference, StarOS Release 16

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

Access
Read-only

Object
starPDIFSessCurrentIpv4Active

Object ID
enterprise.8164.1.44.1.1.12

Description
The number of currently active IPv4 sessions for this PDIF service.
Starent Chassis Objects

MIB Textual Conventions

SNMP MIB Reference, StarOS Release 16

Syntax
Gauge32

Access
Read-only

Object
starPDIFSessCurrentIpv4Dormant

Object ID
tuple.8164.1.44.1.1.13

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

Syntax
Gauge32

Access
Read-only

Object
starPDIFBindIpAddress

Object ID
tuple.8164.1.44.1.1.14

Description
The bind IP address for this PDIF service

Syntax
IpAddress

Access
Read-only

Object
starPDIFBindIpPort

Object ID
tuple.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
   starSGNSerTable

Object ID
   enterprise.8164.1.45.1

Description
   A table containing SGSN related information.

Syntax
   SEQUENCE OF StarSGNSerEntry

Access
   not-accessible
starSGSNSerEntry

Object ID
enterprise.8164.1.45.1.1

Description
The statistics for a specific SGSN service.

Syntax
StarSGSNSerEntry

Access
not-accessible

Sequence
starSGSNSerVpnID Gauge32
starSGSNSerSvcID Gauge32
starSessSGSNVpnName DisplayString
starSessSGSNServName DisplayString
starLinkM3UAS7rdId Gauge32
starSS7Pc Gauge32
starLinkM3UAPsId Gauge32

Object
starSGSNSerVpnID

Object ID
enterprise.8164.1.45.1.1.1

Description
The internal identification of the VPN (context).

Syntax
Gauge32

Access
not-accessible

Object
starSGSNSerSvcID

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
starSessSGSNServName

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**

starSessSGSNRncld

**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
starSS7M3UAPspld
starSS7MTP3LinkSetId
starSS7MTP3LinkId
starSS7SCTPSelfAddr
starSS7SCTPPeerAddr
starSS7SCTPSelfPort
starSS7SCTPPeerPort
starSS7CongLevel
starSS7LocalCong
starSS7CauseString

Object
starSS7rdid
Object ID
enterprise.8164.1.46.1.1.1

Description
SS7 Routing Domain identification.

Syntax
Gauge32

Access
accessible-for-notify

Object
starSS7Pc

Object ID
enterprise.8164.1.46.1.1.2

Description
Point Code.

Syntax
Gauge32

Access
not-accessible

Object
starSS7M3UAPsId

Object ID
enterprise.8164.1.46.1.1.3

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
Starent Chassis Objects

MIB Textual Conventions

SNMP MIB Reference, StarOS Release 16

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
enterprise.8164.1.46.1.1.11
**Description**
Congestion Level Value

**Syntax**
Gauge32

**Access**
Read-Only

**Object**
starSS7LocalCong

**Object ID**
enterprise.8164.1.46.1.1.12

**Description**
Local Congestion Value

**Syntax**
Gauge32

**Access**
Read-Only

**Object**
starSS7CauseString

**Object ID**
enterprise.8164.1.46.1.1.13

**Description**
Cause string for failure

**Syntax**
DisplayString

**Access**
Read-Only

**enterprise.8164.1.starentSccpNw(47)**

**Object**
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
starSccpNwld Gauge32
starSccpSsn Gauge32

Object
starSccpNwld

Object ID
enterprise.8164.1.47.1.1.1

Description
SCCP Network ID

Syntax
Gauge32

Access
accessible-for-notify

Object
starSccpSsn

Object ID
enterprise.8164.1.47.1.1.2

Description
Sub-system number
enterprise.8164.1.starentSGTPService(48)

**Object**
starSGTPSerTable

**Object ID**
enterprise.8164.1.48.1

**Description**
Table containing SGTP Service-related info

**Syntax**
Sequence of StarSGTPSerEntry

**Access**
not-accessible

**Object**
starSGTPSerEntry

**Object ID**
enterprise.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
time.8164.1.starentCert(50)

Description
Table containing information on X.509 certificates

Syntax
Sequence of StarCertEntry

Access
not-accessible

Object
starCertEntry

Object ID
time.8164.1.50.1

Description
Information on a particular X.509 Certificate

Syntax
StarCertEntry

Access
not-accessible

Sequence
certSerialNumber      Display-String
certExpiryTime        DateAndTime
certIssuer            Display-String

Object
certSerialNumber
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)
cdrom(2)

text

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
enterprise.8164.1.54.1

Description
Table containing SDH information
Syntax

SEQUENCE OF StarSDHEntry

Access

Not Accessible

Object

starSDHEntry

Object ID

enterprise.8164.1.54.1.1

Description

Statistical data

Syntax

StarSDHEntry

Access

Not Accessible

Sequence

starSDHSlot Index
starSDHPort Index
starSDHOperState

Object

starSDHSlot

Object ID

enterprise.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
**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

**Object**

starSDHPathTable

**Object ID**

enterprise.8164.1.55.1

**Description**

Table for SDH Path data

**Syntax**

SEQUENCE OF starSDHPathEntry

**Access**

Not Accessible
**starSDHPathEntry**

**Object ID**
enterprise.8164.1.55.1.1

**Description**
Table statistical data

**Syntax**
starSDHPathEntry

**Access**
Not Accessible

**Sequence**

<table>
<thead>
<tr>
<th>Object</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>starSDHPathSlot</td>
<td>Integer32</td>
</tr>
<tr>
<td>starSDHPathPort</td>
<td>Integer32</td>
</tr>
<tr>
<td>starSDHPathNum</td>
<td>Integer32</td>
</tr>
<tr>
<td>starSDHPathOperState</td>
<td>Integer32</td>
</tr>
</tbody>
</table>

**starSDHPathSlot**

**Object ID**
enterprise.8164.1.55.1.1.1

**Description**
Slot number for this port

**Syntax**
Integer32(17..48)

**Access**
accessible-for-notify

**starSDHPathPort**

**Object ID**
enterprise.8164.1.55.1.1.2

**Description**
Port number within this slot

**Syntax**
Integer32(1..8)

**Access**
accessible-for-notify
Object

starSDHPathNum

Object ID
enterprise.8164.1.55.1.1.3

Description
Path number

Syntax
Integer32(1..3)

Access
accessible-for-notify

Object

starSDHPathOperState

Object ID
enterprise.8164.1.55.1.1.4

Description
A bitmask indicating the state of SDH Path HOP
0x0000 Good
0x0001 hopaths
0x0002 hopathsf
0x0020ppdi
0x0040 prdi
0x0080 perdi
0x0100 perival
0x0200 perivaloff

Syntax
Integer32

Access
Read-Only

enterprise.8164.1.starentE1Trib(56)

Object

starE1TribTable

Object ID
enterprise.8164.1.56.1
Description
Table for E1Trib data

Syntax
SEQUENCE OF StarE1TribEntry

Access
Not Accessible

Object
starE1TribEntry

Object ID
enterprise.8164.1.56.1.1

Description
Statistical data for table

Syntax
StarE1TribEntry

Access
Not Accessible

Sequence
starE1TribSlot Index
starE1TribPort Index
starE1TribPath Index
starE1TribTug2 Integer32
starE1TribTu12 Integer32
starE1TribOperStateLOP Integer32
starE1TribOperState Integer32

Object
starE1TribSlot

Object ID
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

---

starE1TribPath

**Object ID**
enterprise.8164.1.56.1.1.3

**Description**
Not shown

**Syntax**
Integer32(1..3)

**Access**
accessible-for-notify

---

starE1TribTug2

**Object ID**
enterprise.8164.1.56.1.1.4

**Description**
Not shown

**Syntax**
Integer32(1..7)

**Access**
accessible-for-notify

---

starE1TribTu12

**Object ID**
enterprise.8164.1.56.1.1.5
Starent Chassis Objects

MIB Textual Conventions

SNMP MIB Reference, StarOS Release 16

---

### starE1TribOperStateLOP

**Object ID**
enterprise.8164.1.56.1.1.6

**Description**
A bitmask indicating the state 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

**Syntax**
Integer32

**Access**
read-only
enterprise.8164.1.starentGPRSLink(57)

Object
gstarGPRSLinkTable

Object ID
tenterprise.8164.1.57.1

Description
A table containing GPRS Service Link related information.

Syntax
SEQUENCE of StarGPRSLinkEntry

Access
Not Accessible

Object
gstarGPRSLinkEntry

Object ID
tenterprise.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
time.8164.1.58.1

Description
A table ...

Syntax
SEQUENCE of StarFractTribEntry

Access
Not Accessible

Object
starFractE1TribEntry

Object ID
time.8164.1.58.1.1

Description
Information about a specific Entry

Syntax
starFractE1TribEntry

Sequence
starFractE1TribSlot  Integer32,
starFractE1TribPort   Integer32,
starFractE1TribPath   Integer32,
starFractE1TribTug2   Integer32,
starFractE1TribTu12   Integer32,
starFractE1TribBundNum Integer32,
starFractE1TribTimeslots DisplayString

Object
starFractE1TribSlot

Object ID
time.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
<table>
<thead>
<tr>
<th>Object</th>
<th>starFractE1TribTu12</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.58.1.1.5</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Not Given</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Integer32(1..3)</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>accessible-for-notify</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starFractE1TribBundNum</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.58.1.1.6</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Not Given</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Integer32(0..31)</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>Not Accessible</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starFractE1TribTimeslots</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.58.1.1.7</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Not Given</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Display/String</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>Read-Only</td>
</tr>
</tbody>
</table>

**enterprise.8164.1.starentStorage(59)**

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

Object ID
tenterprise.8164.1.59.1

Description
A table of mass storage devices

Syntax
SEQUENCE OF StarStorageEntry

Access
Not Accessible

Object
starStorageEntry

Object ID
tenterprise.8164.1.59.1.1

Description
Information about a particular file on a mass storage device

Syntax
StarStorageEntry

Access
Not Accessible

Sequence
starStorageSlot Integer32,
starStorageName DisplayString,
starStorageDeviceType INTEGER

Object
starStorageSlot

Object ID
tenterprise.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

**Object**

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)
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.
**Starent Chassis Objects**

**MIB Textual Conventions**

---

**SNMP MIB Reference, StarOS Release 16**

---

**Syntax**

**Access**

**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**

**Access**

**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**

**Access**

---

**enterprise.8164.1.starentPDGSys(62)**

**Object**

**starPDGSysStatus**

**Object ID**

8164.1.62.1

**Description**

The overall status of the chassis as a PDG service. A value of noservice(1) means that the chassis is not configured/licensed for PDG; active(2) indicates that at least one PDG service is available for processing sessions; temporary(3) indicates that PDG is running in a temporary capacity, such as running in standby mode during an online upgrade; outofservice(4) indicates that no PDG service is currently active, but one or more PDG services are configured.
Syntax
unknown(0)
noservice(1)
active(2)
temporary(3)
outofservice(4)

Access
read-only

Object
starPDGSysNumService

Object ID
8164.1.62.2

Description
The number of PDG services configured

Syntax
Unsigned32

Access
read-only

Units
Services

Object
starPDGSysSessCurrent

Object ID
8164.1.62.3

Description
The number of current PDG sessions for this chassis

Syntax
Gauge32

Access
read-only

Object
starPDGSysSessCurrActive

Object ID
8164.1.62.4
he number of currently active PDG sessions for this chassis.

**Syntax**

Gauge32

**Access**

read-only

**Object**

starPDGSysSessCurrDormant

**Object ID**

8164.1.62.5

The number of currently dormant PDG sessions for this chassis

**Syntax**

Gauge32

**Access**

read-only

**Object**

starPDGSysSessTtlSetup

**Object ID**

8164.1.62.6

The cumulative total number of PDG sessions that has been setup

**Syntax**

Counter32

**Access**

read-only

**Object**

starPDGSysChildSACurrent

**Object ID**

8164.1.62.7

The number of current PDG child SAs for this chassis

**Syntax**

Gauge32
Access
  read-only

enterprise.8164.1.starentPDGServic(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
Starent Chassis Objects

MIB Textual Conventions

SNMP MIB Reference, StarOS Release 16

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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

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

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

Object
starIPPoolGroupName

Object ID
8164.1.64.1.1.3
Description
The name of the IP pool group

Syntax
DisplayString

Access
read-only

Object
starIPPoolGroupVpnName

Object ID
8164.1.64.1.1.4

Description
The context name string for this pool group

Syntax
DisplayString

Access
read-only

Object
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

Object
starIPPoolGroupHold

Object ID
8164.1.64.1.1.6

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
### Starent Chassis Objects

#### enterprise.8164.1.starentHNBGWService(65)

<table>
<thead>
<tr>
<th><strong>Object</strong></th>
<th>starHNBGWServTable</th>
</tr>
</thead>
</table>

**Object ID**

8164.1.65.1

**Description**

The statistics for a specific HNBGW service

**Syntax**

StarHNBGWSerEntry

**Access**

not-accessible

<table>
<thead>
<tr>
<th><strong>Object</strong></th>
<th>starHNBGWSerEntry</th>
</tr>
</thead>
</table>

**Object ID**

8164.1.65.1.1

**Description**

The statistics for a specific HNBGW service

**Syntax**

StarHNBGWSerEntry

**Access**

not-accessible

<table>
<thead>
<tr>
<th><strong>Object</strong></th>
<th>starHNBGWSerVpnID</th>
</tr>
</thead>
</table>

**Object ID**

8164.1.65.1.1.1

---

**SNMP MIB Reference, StarOS Release 16**
Description
The internal identification of the VPN (context)

Syntax
Gauge32

Access
not-accessible

Object
starHNBGWSerSvcID

Object ID
8164.1.65.1.1.2

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

Syntax
Gauge32

Access
not-accessible

Object
starSessHNBGWVpnName

Object ID
8164.1.65.1.1.3

Description
The name of this VPN (context)

Syntax
DisplayString

Access
read-only

Object
starSessHNBGWServName

Object ID
8164.1.65.1.1.4

Description
The name of this Service

Syntax
DisplayString
<table>
<thead>
<tr>
<th>Object ID</th>
<th>Description</th>
<th>Syntax</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>starSessHNBGWCSNsWName</td>
<td>The name of the CS NW</td>
<td>DisplayString</td>
<td>read-only</td>
</tr>
<tr>
<td>starSessHNBGWPsNsWName</td>
<td>The name of the PS NW</td>
<td>DisplayString</td>
<td>read-only</td>
</tr>
<tr>
<td>starSessHNBGWSgsnPtCd</td>
<td>SGSN Point Code</td>
<td>Integer32</td>
<td>read-only</td>
</tr>
<tr>
<td>starSessHNBGWMscPtCd</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Starent Chassis Objects

MIB Textual Conventions

SNMP MIB Reference, StarOS Release 1

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

Object
starALCAPSerVpnID

Object ID 8164.1.66.1.1.1
Description
The internal identification of the VPN (context)

Syntax
Gauge32

Access
not-accessible

Object
starALCAPSerSvcID

Object ID
8164.1.66.1.1.2

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

Syntax
Gauge32

Access
not-accessible

Object
starSessALCAPVpnName

Object ID
8164.1.66.1.1.3

Description
The name of this VPN (context).

Syntax
DisplayString

Access
read-only

Object
starSessALCAPServName

Object ID
8164.1.66.1.1.4

Description
The name of this Service.

Syntax
DisplayString
### starSessALCAPAAPAL2NodeName

**Object ID**
8164.1.66.1.1.5

**Description**
The name of the AAL2 Node.

**Syntax**
DisplayString

**Access**
read-only

### starSessALCAPAPathId

**Object ID**
8164.1.66.1.1.6

**Description**
The path id of AAL2 path.

**Syntax**
Integer32

**Access**
read-only

### 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 separated 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
accessible-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
<table>
<thead>
<tr>
<th>Access</th>
<th>accessible-for-notify</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object</strong></td>
<td>starMMES1PathVpnName</td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>8164.1.70.1.1.3</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>Access</th>
<th>Read-only</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object</strong></td>
<td>starMMES1PathServName</td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>8164.1.70.1.1.4</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The name of this MME Service</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>Access</th>
<th>Read-only</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object</strong></td>
<td>starMMES1PathSelfAddr</td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>8164.1.70.1.1.5</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Interface IP Address.</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>Access</th>
<th>Read-only</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object</strong></td>
<td>starMMES1PathSelfPort</td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td></td>
</tr>
</tbody>
</table>
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**

- `starCardMismatch`

**Object ID**

enterprise.8164.2.13

**Important:** This trap is obsolete.

**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**

- starSlotNum
- starSlotNum

---

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**

- starSlotNum
- starSlotNum

---
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 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

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

**Objects**
- starFanInserted

**Object ID**
enterprise.8164.2.23

**Object ID**
enterprise.8164.2.24

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

**Objects**
- starLogThreshold

**Important:** This trap is obsolete.

**Object ID**
enterprise.8164.2.25

Description
A system log has reached its maximum size.
Objects
starLogName
starLogCurSize
starLogMaxSize

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.

Objects
starCPUSlot
starCPUNumber

Object
starCPUMemoryLow

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
cstarCPUNumber

Object
starCPUFailed

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
cstarCPUNumber

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
cstarCPUNumber

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

**Object**
- 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 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 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
  enterprise.8164.2.38

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

Object
  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 deadline 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
  enterprise.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
radiusAuthServerIndex
radiusAuthServerAddress

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
Object

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

Object

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

Object

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

<table>
<thead>
<tr>
<th>Object</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>starCardActive</td>
<td>The card is now active.</td>
</tr>
</tbody>
</table>

**Object ID**
-enterprise.8164.2.55

**Objects**
- starSlotNum
- starCardType

<table>
<thead>
<tr>
<th>Object</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>starLACServiceStart</td>
<td>A LAC service has started.</td>
</tr>
</tbody>
</table>

**Object ID**
-enterprise.8164.2.56

**Description**
A LAC service has started.

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

**Objects**
- starServiceVpnName
- starServiceServName

<table>
<thead>
<tr>
<th>Object</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>starLACServiceStop</td>
<td>A LAC service has stopped.</td>
</tr>
</tbody>
</table>

**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
starLACServiceStart

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.

Objects
starServiceVpnName
starServiceServName

Object
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
starLongDurTimerExpire

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
starCgfDead

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 starCgfServerAlive notification will be generated when this condition is cleared.

Objects
starSessGGSNVpnName
starSessGGSNPeerPort
starSessGGSNPeerAddr

Object
starStorageServerAlive

Object ID
enterprise.8164.2.78

Description
GTPP Storage Server is alive.

Objects
starSessGGSNVpnName
starSessGGSNPeerAddr

Object
starStorageServerDead

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

Object
starServiceLossSPIO

Object ID
trace.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
trace.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
trace.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
testrprise.8164.2.88

Description
DHCP server alive.

Objects
starSessGGSNvpmName
starSessGGSNPeerPort
starSessGGSNPeerAddr

Object
starDhcpDead

Object ID
testrprise.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
starSessGGSNvpmName
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
trace.8164.2.93

Description

The card is now in standby mode.

Objects

starSlotNum
starCardType

Object

starLicenseUnderLimit

Object ID
trace.8164.2.94

Description

Usage is now under the licensed session limit.

Objects

starLicensedSessions
starCurrentSessions
starServiceType

Object

starIPSECPriTunDown

Object ID
trace.8164.2.95

Description

IPSEC primary tunnel is down

Objects

starIPSECCContextName
<table>
<thead>
<tr>
<th>starIPSECGroupName</th>
<th>starIPSECTunLocalIPAddr</th>
<th>starIPSECTunRemoteIPAddr</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object</strong></td>
<td></td>
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</tr>
<tr>
<td>starIPSECPriTunUp</td>
<td></td>
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<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.2.96</td>
<td></td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>IPSEC primary tunnel is up</td>
<td></td>
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<tr>
<td><strong>Objects</strong></td>
<td>starIPSECCContextName</td>
<td>starIPSECGgroupName</td>
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<td></td>
<td>starIPSECTunLocalIPAddr</td>
<td>starIPSECTunRemoteIPAddr</td>
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<tr>
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<td>-------------------------</td>
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<tr>
<td>starIPSECSecTunDown</td>
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</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.2.97</td>
<td></td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>IPSEC secondary tunnel down</td>
<td></td>
</tr>
<tr>
<td><strong>Objects</strong></td>
<td>starIPSECCContextName</td>
<td>starIPSECGgroupName</td>
</tr>
<tr>
<td></td>
<td>starIPSECTunLocalIPAddr</td>
<td>starIPSECTunRemoteIPAddr</td>
</tr>
<tr>
<td>-------------------</td>
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</tr>
<tr>
<td>starIPSECSecTunUp</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.2.98</td>
<td></td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>IPSEC secondary tunnel is up</td>
<td></td>
</tr>
<tr>
<td><strong>Objects</strong></td>
<td>starIPSECCContextName</td>
<td>starIPSECGgroupName</td>
</tr>
<tr>
<td></td>
<td>starIPSECTunLocalIPAddr</td>
<td>starIPSECTunRemoteIPAddr</td>
</tr>
</tbody>
</table>
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.

Objects
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.
### starVIMServiceStart

**Objects**
- starServiceVpnName
- starServiceServName

**Object ID**
enterprise.8164.2.109

**Description**
A VIM service has started.

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

**Syntax**
- starServiceVpnName
- starServiceServName

---

### starVIMServiceStop

**Objects**
- starServiceVpnName
- starServiceServName

**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.

---

### starCHATCONFServiceStart

**Objects**
- starServiceVpnName
- starServiceServName

**Object ID**
enterprise.8164.2.111

**Description**
A CHAT/CONF service has started.

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

---

### starCHATCONFServiceStop

**Objects**
- starServiceVpnName
- starServiceServName

**Object ID**
enterprise.8164.2.111

**Description**
A CHAT/CONF service has started.

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

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 starBGNPeerSessionDown 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
starSRPIPAAddress
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
starSRPIPAAddress
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 starSRPAAAUnreachable notification. This notification is only generated if there was previously no reachable AAA server.

Action to be Taken: No action required.

Objects
starContextName
starSRPIPAAddress
starUDPPortNum

Object
starSRPAAAUnreachable
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
starThreshGB
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.

Description
Probable Cause: No action has been taken long for the GCDR files generated by Storage Server.

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

Objects
starSessGGSNVpnName
starSessGGSNPeerAddr
starThreshInt
starThreshMeasuredInt
starGSSClusterName
starGSSClusterNodeName

Object
starStorageServerOldGcdrCleared

Object ID
enterprise.8164.2.142

Description
GCDR files on the storage server have been processed and the threshold condition is now clear.

Objects
starSessGGSNVpnName
starSessGGSNPeerAddr
starThreshInt
starGSSClusterName
starGSSClusterNodeName

Object
starLoginFailure

Object ID
enterprise.8164.2.143

Description
A login failure occurred attempting to establish a CLI or FTP session.

Objects
starCLITtyname
starCLIType
starCLIRemoteIpAddr
starCLIRemoteIpAddrType

Object
starIPSGServiceStart

Object ID
enterprise.8164.2.144

Description
A IP Services Gateway (IPSG) service has started.
Objects

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.

Objects

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.

Objects

starServiceVPNName
starServiceServName
starServiceFAlpAddr
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
to 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
to 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
starTaskRestart

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
starCSCFServeceStart

Object ID
enterprise.8164.2.152

Description
A CSCF Service has started.

Action to be Taken: No action required.

Objects
starServiceVpnName
starServiceServName
**Object**

starCSCFSерviceStop

**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**
- 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**
- 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**
- Object ID: enterprise.8164.2.158

**Description**
The Content Filtering OPTCMDB file error was removed.
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**
- starContFiltDBUpgradeFilename
- starContFiltDBUpgradeErrorCode

**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
starIPSECCContextName
starIPSECPolicyName
starIPSECDynPolicyType
starIPSECPolicyPayloadType
starIPSECLocalGateway
starIPSECRemoteGateway

Object
starIPSECDynTunDown

Object ID
type.8164.2.165

Description
IPSEC dynamic tunnel down.

Objects
starIPSECContextName
starIPSECPolicyName
starIPSECDynPolicyType
starIPSECDynPolicyPayloadType
starIPSECLocalGateway
starIPSECRemoteGateway

Object
starHeartbeat

Object ID
type.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
type.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**

**starOverloadSystemClear**

**Object ID**
enterprise.8164.2.168

**Description**
A system-wide congestion overload condition has cleared

**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**
Starent Chassis Traps

MIB Textual Conventions

SNMP MIB Reference, StarOS Release 16

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
starSessGGSVpnName
starSessGGSPeerAddr
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
starSessGGSVpnName
starSessGGSPeerAddr
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
starPDIFSServiceStart

Object ID
enterprise.8164.2.181

Description
A PDIF Service has started.

Action to be Taken: No action required.

Objects
starServiceVpnName
starServiceServName

Object
starPDIFSServiceStop

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 starPDIFSServiceStart 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
starCPUNumber

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.
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
terprise.8164.2.202

Description
The amount of available memory for the identified processor has fallen below the configured threshold value.
Probable Cause: This is a user configurable threshold.
Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearCPUMemory notification will be generated when the measured value falls below the threshold.

Objects
starCPUSlot
starCPUNumber
starThreshInt
starThreshMeasuredInt

Object
starThreshClearCPUMemory

Object ID
terprise.8164.2.203

Description
The threshold condition is now clear.

Objects
starCPUSlot
starCPUNumber
starThreshInt
starThreshMeasuredInt

Object
starThreshLicense

Object ID
terprise.8164.2.204

Description
The percentage available, licensed subscribers has fallen below the configured threshold value.
Probable Cause: This is a user configurable threshold.
**Condition Clear Alarm:** If the thresholding subsystem is configured to run in alarm mode, a starThreshClearLicense notification will be generated when the measured value falls below the threshold.

**Objects**
- starThreshPct
- starThreshMeasuredPct
- starServiceType

**Object**
- starThreshClearLicense

**Object ID**
enterprise.8164.2.205

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

**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
- starServiceType

**Object**
- starThreshClearSubscriberTotal

**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

**Object**
- starThreshClearSubscriberTotal

**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.
starPortNum
starThreshPct
starThreshMeasuredPct

Object
starThreshClearPortRxUtil

Object ID
time.8164.2.211

Description
The threshold condition is now clear.

Objects
starPortSlot
starPortNum
starThreshPct
starThreshMeasuredPct

Object
starThreshPortTxUtil

Object ID
time.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
time.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
starThreshInt
starThreshMeasuredInt

Object
starThreshAAAAuthFailRate

Object ID
enterprise.8164.2.218

Description
The percentage of AAA authentication requests which failed has exceeded the configured threshold during the current monitoring period.

Probable Cause: This is a user-configurable threshold.

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

Objects
starThreshPct
starThreshMeasuredPct

Object
starThreshClearAAAAuthFailRate

Object ID
enterprise.8164.2.219

Description
The threshold condition is now clear.
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

**Object**

starThreshAAARetryRate

**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

**Object**

starThreshClearAAARetryRate

**Object ID**

enterprise.8164.2.225

**Description**

The threshold condition is now clear.

**Objects**

starThreshPct

starThreshMeasuredPct

**Object**

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
starThreshCallSetupFailure

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**
- starThreshPacketsForwarded

**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
starThreshMeasur***

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
enterprise.8164.2.239

Description
The threshold condition is now clear.

Objects
starIPPoolContext
starIPPoolGroup
starThreshPct
starThreshMeasuredPct

Object
starThreshCPUUtilization10Sec

Object ID
enterprise.8164.2.240

Description
The CPU utilization of 10 second measurement for the identified processor has exceeded the configured threshold value for the current monitoring period.

Objects
starCPUSlot
starCPUNumber
starThreshPct
starThreshMeasuredPct

Object
starThreshClearCPUUtilization10Sec

Object ID
enterprise.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.
Objects
starCPUSlot
starCPUNumber
starThreshPct
starThreshMeasuredPct

Object
starThreshClearCPUMemUsage

Object ID
enterprise.8164.2.245

Description
The threshold condition is now clear.

Objects
starCPUSlot
starCPUNumber
starThreshPct
starThreshMeasuredPct

Object
starThreshPDSNSessions

Object ID
enterprise.8164.2.246

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

Objects
starThreshInt
starThreshMeasuredInt

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

starThreshClearLNSSessions

**Object ID**
enterprise.8164.2.253

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

**Objects**
starThreshInt
starThreshMeasuredInt

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

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

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
starThreshPct
starThreshMeasuredPct

**Object**

starThreshClearIPPoolFree

**Object ID**

enterprise.8164.2.269

**Description**

The threshold condition is now clear.

**Objects**

starIPPoolContext
starIPPoolName
starThreshPct
starThreshMeasuredPct

**Object**

starThreshAAAAcctArchive

**Object ID**

enterprise.8164.2.270

**Description**

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

**Objects**

starThreshInt
starThreshMeasuredInt

**Object**

starThreshClearAAAAcctArchive
**Object ID**
enterprise.8164.2.271

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

**Objects**
starThreshInt
starThreshMeasuredInt

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

**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

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

**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
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
t enterprise.8164.2.285

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshFASvcRegReplyError

Object ID
t 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
t 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 PDNS 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
temporary.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
temporary.8164.2.303

Description
  The threshold condition is now clear.

Objects
  starCPUSlot,
  starCPUNumber
  starThreshPct
  starThreshMeasuredPct

Object
  starThreshCPUOrbsCritical

Object ID
temporary.8164.2.304

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

Objects
  starCPUSlot,
  starCPUNumber
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
starThreshStorageUtilization

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
tenterprise.8164.2.312

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

Objects
  starThreshInt
  starThreshMeasuredInt

Object
  starThreshClearDCCAProtocolErrors

Object ID
tenterprise.8164.2.313

Description
  The threshold condition is now clear.

Objects
  starThreshInt
  starThreshMeasuredInt

Object
  starThreshDCCABadAnswers

Object ID
tenterprise.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
### starThreshClearDCCARatingFailed

**Object ID**
enterprise.8164.2.319

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

**Objects**
- starThreshInt
- starThreshMeasuredInt

### 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

### starThreshClearIPSECIKERequests

**Object ID**
enterprise.8164.2.321

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

**Objects**
- starServiceVpnName
- starServiceServName
- starThreshInt
- starThreshMeasuredInt
starThreshIPSECIKEFailures

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 starThreshClearIPSECIKEFailures notification is generated when the measured value falls below the threshold.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshClearIPSECIKEFailures

Object ID
enterprise.8164.2.323

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshIPSECIKEFailRate

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 starThreshClearIPSECIKEFailRate 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 starThreshClearIPSECTunnelsTotal notification is generated when the measured value falls below the threshold.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshClearIPSECCallReqRej

Object ID
tenterprise.8164.2.331

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshCSCFSvcRouteFailure

Object ID
tenterprise.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

Object ID
enterprise.8164.2.337

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object

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

Objects
starThreshPct
starThreshMeasuredPct

Object

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
enterprise.8164.2.343

Description
The threshold condition is now clear.

Objects

starThreshInt
starThreshMeasuredInt

Object

starThreshPDIFCurrActSess

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

**Objects**

- starThreshInt
- starThreshMeasuredInt

**Object**

- starThreshClearASNGWAuthFail

**Object ID**

enterprise.8164.2.353

**Description**

Threshold condition is now clear

**Objects**

- starThreshInt
- starThreshMeasuredInt

**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**

- starThreshInt
- starThreshMeasuredInt

**Object**

- starThreshClearASNGWR6InvNai

**Important:** This object is obsolete.

**Object ID**

enterprise.8164.2.355
### 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

---

### starThreshClearASNGWMaxEAPRetry

**Object ID**
enterprise.8164.2.357

**Description**
Threshold condition is now clear.

**Objects**
- starThreshInt
- starThreshMeasuredInt

---

### 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
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
textprise.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
textarThreshClearSGSNSessions

Object ID
textprise.8164.2.363

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
textarThreshPerServiceSGSNSessions

Object ID
textprise.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
textarThreshClearPerServiceSGSNSessions
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
### starThreshPHSGWAthFail

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

**Probable Cause:** This is a user-configurable threshold.

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

---

### starThreshClearPHSGWAthFail

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

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

---

### starThreshPHSGWMaxEAPRetry

**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

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

starThreshClearPHSGWNWEntryDenial

Object ID
enterprise.8164.2.387

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

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
text.8164.2.399

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshSGWSessions

Object ID
text.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
text.8164.2.409

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshPGWSessions

Object ID
text.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
starThreshLMASessions

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.
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
enterprise.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
enterprise.8164.2.419

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshPHSGWEAPOLAuthFailure

Object ID
enterprise.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.
<table>
<thead>
<tr>
<th>Objects</th>
<th>starThreshInt</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>starThreshMeasuredInt</td>
</tr>
<tr>
<td><strong>Object</strong></td>
<td>starThreshClearPHSGWEPOLAuthFailure</td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.2.421</td>
</tr>
</tbody>
</table>
| **Description**                | The threshold condition is now clear.
|                                |                                     |
| **Objects**                    | starThreshInt                        |
|                                | starThreshMeasuredInt                |
| **Object**                     | starThreshPHSGWMaxEAPOLRetry          |
| **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
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

Object
starThreshClearPDGCurrActSess

Object ID
enterprise.8164.2.429

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
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

Object
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
starThreshClearPerServiceGPRSSessions

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.

Objects
starThreshInt
starThreshMeasuredInt
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

starThreshClearCSCFSvcTotalCallFailure

Object ID
enterprise.8164.2.455

Description
The threshold condition is now clear.

Objects
  starServiceVpnName
  starServiceServName
  starThreshInt
  starThreshMeasuredInt

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
starThreshMeasuredInt

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
### 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

### starThreshClearCSCFSvcErrorPresence

**Object ID**
enterprise.8164.2.461

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

**Objects**
- starServiceVpnName
- starServiceServName
- starThreshInt
- starThreshMeasuredInt

### 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

starThreshPCCAFSessions

Object ID
enterprise.8164.2.474

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

Objects
starThreshInt
starThreshMeasuredInt

starThreshClearPCCAFSessions

Object ID
enterprise.8164.2.475

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

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
starThreshClearPCCAFSessions

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
starThreshHNBGWIuSess

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
starThreshClearHNBGWIuSess

Object ID
enterprise.8164.2.489

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshPerServicePDGSessions
Object ID
enterprise.8164.2.491

Description
The total number of PDG sessions in a service is above the configured threshold.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearPerServicePDGSessions

Object ID
enterprise.8164.2.492

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshSystemCapacity

Object ID
enterprise.8164.2.493

Description
The System resource capacity has exceeded the configured threshold.

Objects
starThreshPct
starThreshMeasuredPct

Object
starThreshClearSystemCapacity

Object ID
enterprise.8164.2.494

Description
The threshold condition is now clear.

Objects
starThreshPct
starThreshMeasuredPct
Object
starThreshTpoRtoTimeout

Object ID
enterprise.8164.2.495

Description
The total number of TPO RTO timeouts is above the configured threshold.

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

Objects
starThreshClearTpoRtoTimeout
starThreshMeasuredInt

Object
starThreshHNBGWluSess

Object ID
enterprise.8164.2.496

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshTpoDnsFailure

Object ID
enterprise.8164.2.497

Description
The total number of TPO DNS query failure is above the configured threshold.

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

Objects
starThreshPct
starThreshMeasuredPct

Object
starThreshClearTpoDnsFailure
Object ID
enterprise.8164.2.498

Description
The threshold condition is now clear.

Objects
starThreshPct
starThreshMeasuredPct

Object
starThreshTpoLowCompressionGain

Object ID
enterprise.8164.2.499

Description
The total number of TPO low compression gain is above the configured threshold.

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

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearTpoLowCompressionGain

Object ID
enterprise.8164.2.500

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

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
starThreshPerServiceSAMOGSessions

Object ID
tarThreshPerServiceSAMOGSessions

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

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearPerServiceSAMOGSessions

Object ID
tarThreshClearPerServiceSAMOGSessions

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshFabricEGQDiscards

Object ID
tarThreshFabricEGQDiscards

Description
The number of EGQDiscards observed during configured threshold and interval exceeded.

Probable Cause:
This is a possible FAP or FE issue. Collect more data by running the `show fabric health` CLI command.

Objects
starSlotNum
starThreshDeviceNum
starThreshMeasuredInt
starThreshInt
starThreshPeriodInt

Object
starThreshClearFabricEGQDiscards

Object ID
enterprise.8164.2.524

Description
The threshold condition is now clear.

Objects
starSlotNum
starThreshDeviceNum
starThreshMeasuredInt
starThreshInt

Object
starThreshAAAAcctArchiveQueue1

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 starThreshClearAAAAcctArchiveQueue1 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 starThreshClearAAAAcctArchiveQueue1 notification will be generated when the measured value falls below the threshold.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearAAAAcctArchiveQueue1

Object ID
enterprise.8164.2.506

Description
The threshold condition is now clear.

Objects
starTaskInstance
starThreshPct
starThreshMeasuredPct

Object

starThreshAAAAcctArchiveQueue2

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

starThreshClearAAAActArchiveQueue3

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' mode, 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
starOSPFFFromState
starOSPFToState

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 starM3UAPSActive notification will be generated when the peer server becomes reachable as at least one PSP is in ASP-Active state.

Objects
starSS7rdId
starSS7M3UAPsID

Object
starM3UAPSActive

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 starM3UAPSActive notification is only generated for application services which were previously declared down via a starM3UAPSDown notification
Objects

starSS7rdId
starSS7M3UAPsID

Object

starM3UAPSPDown

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 starSCCPSspClear notification is generated when this condition is cleared.

Objects

starSccpNwId
starSS7Pc
starSccpSsn

Object

starSCCPSspClear

Object ID
treprise.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
treprise.8164.2.1010

Description
SGSN has received a Radio Network Controller reset event. SGSN will clean up all the lu connections.

Important: This event is not generated for RNC Reset the first time the system boots up.

Objects

starSessSGSNVpnName
starSessSGSNServName
starSessSGSNMcc
starSessSGSNMnc
starSessSGSNRncId

Object

starSGSNHLRReset
Object ID
enterprise.8164.2.1011

Description
Home Location Register (HLR) reset event received. SGSN will mark all subscribers served by this HLR so the subscription record can be fetched again on subsequent activity.

Objects
starSessSGSNVpnName
starSessSGSNServName
starSessSGSNhlrNum

Object
starSGSNGtpcPathFailure

Object ID
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 starSGSNGtpcPathFailureClear alarm is generated when the GSN becomes reachable.

Object
starSGTVpnName
starSGTPServName
starSGTPPeerAdd
starSGTPPeerPort
starSGSNSelfAddr
starSGSNSelfPort

Object
starSGSNFtpcPathFailureClear

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.

Object
starSGTVpnName
starSGTPServName
starSGTPPeerAddr
starSGSNGtpuPathFailure

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
### 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.

### 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.

### 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

Object
starPortDown

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

Object
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
enterprise.8164.2.1026

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

Objects
starContextName
starASNGWServiceName
starBSAddress

Object
starBSUnreachable

Object ID
enterprise.8164.2.1027

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
starASNGWServiceName
starBSAddress
Object
starSystemStartup

Object ID
enterprise.8164.2.1028

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 starMTP3PAvailable message is generated when the route to the point code is reestablished.

Objects
starSS7rdId
starSS7Pc
starSS7MTP3LinkSetId

Object
starMTP3PAvailable

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.

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
starSRPIpAddress

Object
starSRPConnUP

Object ID
enterprise.8164.2.1038

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

Objects
starContextName
starSRPIpAddress

Object
starDiameterIpv6PeerDown

Object ID
enterprise.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
Starent Chassis Traps

Object ID
enterprise.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.
MIB Textual Conventions

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

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

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
teleport.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

Object ID
teleport.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

Object ID
teleport.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
test.8164.2.1050

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

Objects
  starSDHPathSlot
  starSDHPathPort
  starSDHPathNum
  starSDHPathOperState

Object
  starSDHPathHopUp

Object ID
test.8164.2.1051

Description
  The identified SDH Path is up.

Objects
  starSDHPathSlot
  starSDHPathPort
  starSDHPathNum

Object
  starSDHLopDown

Object ID
test.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 starSDHLopDown notification

Objects
  starE1TribSlot
  starE1TribPort
  starE1TribPath
  starE1TribTug2
starE1TribTu12
starE1TribOperStateLOP

Object
  starSDHLopUp

Object ID
telephone.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

starSS7PCongested

Object ID
telephone.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
telephone.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
starPHSGWServicesStop

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 starPHSGWServicesStart notification will be generated when the service is restarted

Objects
starServiceVpnName
starServiceServName

Object
starGPRSServicesStart

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 starGPRSServiceStart notification will be generated when the service is restarted

Objects

starServiceVpnName
starServiceServName

Object

starGPRSNseDown

Object ID
enterprise.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 will be generated when at least one NSVC in the NSE comes up.

Objects

starGPRSNsei

Object

starGPRSNseUp

Object ID
enterprise.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

starGPRSNsvcUp

**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

starGPRSBvcDown

**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

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

starGPRSNsei
starGPRSBvci

Object

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

Object

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
starFractE1TribTimeslots

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

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

### 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

<table>
<thead>
<tr>
<th>Object</th>
<th>starM3UAPSPCongested</th>
</tr>
</thead>
</table>

### 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
ttairent.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
ttairent.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
ttairent.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

<table>
<thead>
<tr>
<th>starStorageName</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object</td>
</tr>
<tr>
<td>starRaidStarted</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>starStorageName</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object</td>
</tr>
<tr>
<td>starRaidDegraded</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>starStorageName</th>
</tr>
</thead>
<tbody>
<tr>
<td>starStorageSlot</td>
</tr>
<tr>
<td>starStorageName</td>
</tr>
<tr>
<td>Object</td>
</tr>
<tr>
<td>starRaidRecovered</td>
</tr>
</tbody>
</table>
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 starSgsRMCPUOver.

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
true

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

Action to be Taken: No action required.

Objects
starServiceVpnName
starServiceServName

Object
starPGWServiceStop

Object ID
true

Description
A Packet Data Network Gateway (PGW) 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
starSGWServiceStart
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 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 starSGWServicesStop notification will be generated when the service is restarted.

Objects
starServiceVpnName
starServiceServName

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

637
starServiceServName

**Object**
starMAGServiceStart

**Object ID**
text

**Description**
A Mobile Access Gateway (MAG) Service has started.

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

**Objects**
starServiceVpnName
starServiceServName

---

starServiceServName

**Object**
starMAGServiceStop

**Object ID**
text

**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

---

starServiceServName

**Object**
starMMEServiceStart

**Object ID**
text

**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
  starHSGWServiceStart

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
  starHSGWServiceStop

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 startHSGWServiceStart notification will be generated when the service is restarted.

<table>
<thead>
<tr>
<th>Objects</th>
<th>starServiceVpnName</th>
<th>starServiceServName</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object</td>
<td>starCPUBusyClear</td>
<td></td>
</tr>
<tr>
<td>Object ID</td>
<td>enterprise.8164.2.1095</td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>The CPU is no longer busy.</td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Objects</th>
<th>starCPUSlot</th>
<th>starCPUNumber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object</td>
<td>starCPUMemoryLowClear</td>
<td></td>
</tr>
<tr>
<td>Object ID</td>
<td>enterprise.8164.2.1096</td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>The CPU is no longer experiencing a low memory condition.</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Objects</th>
<th>starCPUSlot</th>
<th>starCPUNumber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object</td>
<td>starFNGServiceStart</td>
<td></td>
</tr>
<tr>
<td>Object ID</td>
<td>enterprise.8164.2.1097</td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>A FNG Service has started.</td>
<td></td>
</tr>
<tr>
<td>Action to be Taken:</td>
<td>No action required.</td>
<td></td>
</tr>
</tbody>
</table>
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
terprise.8164.2.1101

Description
A PDG Service has started
Action to be Taken: No action required.

Objects
starServiceVpnName
starServiceServName

Object
starPDGServiceStop

Object ID
terprise.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
terprise.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**

enterprise.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
time.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
time.8164.2.1115

Description
A congestion condition has cleared.

Objects
- starSmgrId

Object
- starOSPFv3NeighborDown
Object ID  
enterprise.8164.2.1116

Description  
An OSPFv3 neighbor is down

Objects  
starContextName  
starInterfaceName  
starInterfaceIPAddress  
starOSPFNeighborRouterID  
starOSPFFromState  
starOSPFToState  

Object  
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  

Object  
starServiceLossSPIOClear

Object ID  
enterprise.8164.2.1118

Description  
Service Loss condition has been cleared.

Objects  
starCardMode  

Object  
starEgtpuPathFailure
Object ID
terprise.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
terprise.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
terprise.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
test

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
test

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 ad min 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
starEPDGServiceStart

Object ID
enterprise.8164.2.1143

Description
A EPDG Service has started

Action to be Taken: No action required.

Objects
starServiceVpnName
starServiceServName

Object
starEPDGServiceStop

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 starEPDGServiceStart 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
starCardType
starPortType

Object
starApsModeMismatch

Object ID
enterprise.8164.2.1149

Description
APS Mode Mismatch Status

Objects
starSlotNum
starCardType
starPortNum

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

Object
cstarHNBGWSGSNRanapReset

Object ID
enterprise.8164.2.1155

Description
HNBGW has received RANAP Reset event from SGSN.

Objects
cstarSessHNBGWVpnName
cstarSessHNBGWServName
cstarSessHNBGWPsnWName
cstarSessHNBGWGsnPtCd

Object
cstarHNBGWMSCRanapReset

Object ID
enterprise.8164.2.1156

Description
HNBGW has received RANAP Reset event from MSC.

Objects
cstarServiceVpnName
cstarSessHNBGWServName
cstarSessHNBGCsNwName
cstarSessHNBGWMscPtCd

Object
cstarALCAPNodeReset

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
starSGSServiceStop

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 starSGSServiceStart 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 reestablished.

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
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

starIPSecNodePeerDown

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.

Objects
starSlotNum
starCardType
starPortSlot

Object
starCdrPurged

Object ID
enterprise.8164.2.1178

Description
CDR’s purged

Objects
starSessGGSNVpnName
starSessGGSNAPNName
starSessGTPPPGroupName

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 gtpg 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 gtpg 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
starCLITUsername
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
starCLITUsername
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.

**Objects**
- starCLIContext
- starCLITtyname
- starCLIRemoteIpAddr
- starCLIDatabaseUsername
- 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
- starCLIUname
- 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
- starCLIUname
- 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**

- starLawfulInterceptChanged

**Object ID**

enterprise.8164.2.1188

**Description**

Original Lawful Intercept configured by Admin is changed by Admin.

**Objects**

- starCLIUsername

**Object**

- 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

Description
  An S1 Path between an MME service and an eNodeB has been established. Normally a starMMES1PathSetup notification would be generated only for a path which had previously failed, but optionally this notification can be generated for any path setup.

Objects
  starMMES1PathVpnName
  starMMES1PathServName
  starMMES1PathENBID
  starMMES1PathSelfAddr
  starMMES1PathSelfPort
  starMMES1PathPeerAddr
  starMMES1PathPeerPort

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

Object

starHenbgwNetworkServiceStart

Object ID
enterprise.8164.2.1195

Description
A HENBGW Network Service has started

Objects

starServiceVpnName,
starServiceServName

Object

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

Object

starAAAArchiveStarted

Object ID
enterprise.8164.2.1197
Description
AAA Archive started for sessmgr instance.
A AAAArchiveStarted trap will be generated if queue size crosses 15% of maximum number of sessmgr items per instance.

Objects
starTaskInstance

Object
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
starECSTotalDNSLearntIPThresholdInstance
starECSTotalDNSLearntIPThresholdconfigured
starECSTotalDNSLearntIPThresholdmeasured

Object
starECSTotalDNSLearntIPv4ThresholdClear

Object ID
enterprise.8164.2.1199

Description
DNS Learnt IPv4 entries reach below the threshold limit (lower water mark) configured.

Objects
starECSTotalDNSLearntIPThresholdInstance
starECSTotalDNSLearntIPThresholdconfigured
starECSTotalDNSLearntIPThresholdmeasured

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
starECSTotalDNSLearntIPThresholdInstance
starECSTotalDNSLearntIPv6ThresholdFailed
starECSTotalDNSLearntIPv6Thresholdmeasured

Object

starECSTotalDNSLearntIPv6ThresholdClear

Object ID
enterprise.8164.2.1201

Description
DNS Learnt IPv6 entries reach below the threshold limit (lower water mark) configured.

Objects
starECSTotalDNSLearntIPv6ThresholdInstance
starECSTotalDNSLearntIPv6ThresholdFailed
starECSTotalDNSLearntIPv6Thresholdmeasured

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

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
  starLAGGroupUp

Object ID
  enterprise.8164.2.1205

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
  starVLRAssocDown

Object ID
  enterprise.8164.2.1206

Description
  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
starVLRAssocUp

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
enterprise.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
enterprise.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
enterprise.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 an 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
t
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
starSGSNRMCPUWarnClear

Object ID
t
enterprise.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
t
enterprise.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.
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.

The Memory usage of the task is going in Overload level. This event is generated when current Memory usage reached twice allocated limit.
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

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 session manager instance number.

**Objects**
starSessMgrFlowInstId
starSessMgrFlowPDNNo
starSessMgrFlowMemUsage
starSessMgrFlowCounter
starSessMgrTotalFlowCount
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
starHENBGWServiceVpnName
starHENBGWServiceServName
starHENBGWServiceLogicalENBId
starHENBGWServiceMMEServName
starHENBGWServicePeerAddr
starHENBGWServicePeerPort

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
starHENBGWServiceVpnName
starHENBGWServiceServName
starHENBGWServiceLogicalENBId
starHENBGWServiceMMEServName
starHENBGWServicePeerAddr
starHENBGWServicePeerPort

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**
- starHENBGWServiceVpnName
- starHENBGWServiceServName

**Object**
- starHENBGWMMESCTPAllAssocDownClear

**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**
- starHENBGWServiceVpnName
- starHENBGWServiceServName

**Object**
- 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

**Object**
- 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**
- starHENBGWServiceVpnName
- starHENBGWServiceServName

**Object**
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 starNPDBConnectionUp notification will be generated when the service is restarted

Objects
starTaskFacilityName
starTaskInstance
starNwReachSrvrAddr

Object
starNPDBConnectionUp

Object ID
enterprise.8164.2.1232

Description
A NPDB connection is up.
Action to be Taken: No action required.

Objects
starTaskFacilityName
starTaskInstance
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
**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

**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

**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

starECSreaddressServerUp

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
### starCdrStreamingComplete

**Object ID**
enterprise.8164.2.1245

**Description**
CDR streaming is Completed

**Objects**
- starServiceVpnName
- starSessGTPPGroupName

### starVLRLDown

**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.

Objects
starContextName
starPCFAddress

starLIRcvryError

Object ID
enterprise.8164.2.1245

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

starLIRcvryComplete

Object ID
enterprise.8164.2.1246

Description
This trap will be raised when Lawful Intercepts are successfully recovered.

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.

starPeerAddress
StarUDPPortNum
starECSreaddressServerUp

Object ID
enterprise.8164.2.1237

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

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>
</table>

SNMP MIB Reference, StarOS Release 16
<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>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**

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

**Object**

starCardSwitchoverComplete

**Object ID**

enterprise.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**

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

**Object**

starCardSwitchoverFailed

**Object ID**

enterprise.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**

<table>
<thead>
<tr>
<th>starSlotNum</th>
<th>starSlotNum</th>
</tr>
</thead>
</table>
Object
starCardMigrateStart

Object ID
enterprise.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
starSlotNum
starSlotNum

Object
starCardMigrateComplete

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
starSlotNum
starSlotNum

Object
starCardMigrateFailed

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
starSlotNum
starSlotNum

**Object**

starTechSuppPasswdChanged

**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**

starPMIPPathFailure

**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**
starPMIPPathFailureClear

**Object ID**
enterprise.8164.2.1237

**Description**
PMIP Control Path Failure condition is no longer valid.

**Objects**
- starPMIPvPnName
- starPMIPServName
- starPMIPSelfAddrType
- starPMIPSelfAddr
- starPMIPPeerAddrType
- starPMIPPeerAddr

**Object**
starHENBGWMMESCTPAssocDestAddrDown

**Object ID**
enterprise.8164.2.1262

**Description**
A HENBGW MME SCTP Association Destination Address is down.

**Problem Cause**: One of the destination MME SCTP addresses is not reachable or removed.

**Condition Clear Alarm**: A starHENBGWMMESCTPAssocDestAddrUp notification will be generated when the HENBGW MME SCTP association destination address is reachable again.

**Objects**
- starHENBGWServiceVpnName
- starHENBGWServiceServName
- starHENBGWServiceLogicalENBId
- starHENBGWServiceMMEServName
- starHENBGWServicePeerAddr
- starHENBGWServicePeerPort

**Object**
starHENBGWMMESCTPAssocDestAddrUp

**Object ID**
enterprise.8164.2.1263

**Description**
A HENBGW MME SCTP Association Destination Address is up. This notification is only generated for Association Destination Address which have previously been declared down.
Objects
starHENBGWServiceVpnName
starHENBGWServiceServName
starHENBGWServiceLogicalENBId
starHENBGWServiceMMEServName
starHENBGWServicePeerAddr
starHENBGWServicePeerPort

Object
starMRMEServiceStart

Object ID
table enterprise.8164.2.1264

Description
A Multi Radio Management (MRME) Service has started.  
**Action to be Taken:** No action required.

Objects
starServiceVpnName
starServiceServName

Object
starMRMEServiceStop

Object ID
table enterprise.8164.2.1265

Description
A Multi Radio Management (MRME) Service has stopped.  
**Probable Cause:** This is typically caused by operator invention. In usual cases, it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.  
**Action to be Taken:** If the MRME service shutdown was not planned, then 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 MRME service is operational.  
**Condition Clear Alarm:** A starMRMEServiceStart notification will be generated when the service is restarted.

Objects
starServiceVpnName
starServiceServName

Object
starSLSServiceStart
Object ID
enterprise.8164.2.1266

Description
An SLS Service has started

Action to be Taken: No action required.

Objects
starServiceVpnName
starServiceServName

Object
starSLSServiceStop

Object ID
enterprise.8164.2.1267

Description
A Serving Gateway (CGW) 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 SLS service shutdown was not planned, then 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 SLS service is operational.

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

Objects
starServiceVpnName
starServiceServName

Object
starESMLCAssocDown

Object ID
enterprise.8164.2.1268

Description
An ESMLC Association is down.

Probable Cause: The ESMLC Association has failed or a network connectivity prevents reaching the ESMLC.

Action to be Taken: If the SLS service shutdown was not planned, then 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.

Condition Clear Alarm: A starESMLCAssocUp notification will be generated when the ESMLC association is up.

Objects
starSLSServiceVpnName
starSLSServiceServName
starESMLCId
starESMLCIpAddr1
starESMLCIpAddr2
starESMLCPortNum

Object
starESMLCAssocUp

Object ID
enterprise.8164.2.1269

Description
An ESMLC Association is up. This notification is only generated for Association which have previously been declared down.

Objects
starSLSServiceVpnName
starSLSServiceServName
starESMLCId
starESMLCIpAddr1
starESMLCIpAddr2
starESMLCPortNum

starESMLCAllAssocDown

Object ID
enterprise.8164.2.1270

Description
All the ESMLC Associations are down.

Probable Cause: All the ESMLC Associations has failed, or network connectivity prevents reaching the ESMLCs.

Condition Clear Alarm: An starESMLCAllAssocUp notification will be generated when all the ESMLC associations are up.

Objects
starSLSServiceVpnName
starSLSServiceServName

Object
starESMLCAllAssocDownClear

Object ID
enterprise.8164.2.1271
Description
At least one ESMLC associations is up. This notification is only generated for all the Association which have been previously declared as down.

Objects
starSLSServiceVpnName
starSLSServiceServName

Object
starSBCServiceStart

Object ID
enterprise.8164.2.1272

Description
An SBC Service has started.

Objects
starServiceVpnName
starServiceServName

Object
starSBCServiceStop

Object ID
enterprise.8164.2.1273

Description
Probable Cause: This is typically caused by operator intervention when a critical parameter associated with sbc-service is changed/removed. 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 SBC service shutdown was not planned, examine the admin logs for any indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check for any sbc-service related configuration errors by running show configuration errors section sbc-service. sbc-service should be associated to an mme-service to be operationally up. If the associated mme-service is down, then the sbc-service is also stopped. Also, check the crash logs for any indication of a software failure.

Objects
starServiceVpnName
starServiceServName

Object
starCBCAssocDown

Object ID
enterprise.8164.2.1274
Description

Probable Cause: SCTP connection between the MME and CBC has been brought down. This could occur during to any of the following reasons.

1. Network connectivity between MME and CBC is broken.
2. CBC gracefully terminates the SCTP association with MME.
3. MME gracefully terminates the SCTP association with CBC. This is typically due to operation intervention that effected sbc-service.

Action to be Taken: In case that the SCTP association between MME and CBC is abnormally closed, check for network connectivity between MME and CBC.

Condition Clear Alarm: In case that the association termination is abnormal, a starPeerAssocUp notification will be generated when the CBC association is up.

Objects

starSBCServiceVpnName
starSBCServiceServName
starPeerId
starPeerIpAddr
starPeerPortNum

Object

starCBCAssocUp

Object ID
enterprise.8164.2.1275

Description
A CBC Association is up.

Objects

starSBCServiceVpnName
starSBCServiceServName
starPeerId
starPeerIpAddr
starPeerPortNum

Object

starHENBGWMMEOverloadStart

Object ID
enterprise.8164.2.1279

Description
A HENBGW MME Overload Start message received.

Condition Clear Alarm: A starHENBGWMMEOverloadStop notification will be generated when the HENBGW MME overload stop message is received.
Objects
starHENBGWServicelnPName
starHENBGWServicennaName
starHENBGWServicelogicalENBId
starHENBGWServicEMMEServName
starHENBGWServicPeerAddr
starHENBGWServicPeerPort
starHENBGWServicTLRI

Object
starHENBGWMMEOverloadStop

Object ID
enterprise.8164.2.1280

Description
A HENBGW MME Overload Stop message is received. This notification is only generated for the MME which has previously generated an overload start message. Optionally, this notification can be generated for any overload stop message received from the MME.

Objects
starHENBGWServicelnPName
starHENBGWServicennaName
starHENBGWServicelogicalENBId
starHENBGWServicEMMEServName
starHENBGWServicPeerAddr
starHENBGWServicPeerPort

Object
starIuBCTcpConnDown

Object ID
enterprise.8164.2.1534

Description
A TCP connection at IuBc interface is down.

Probable Cause: TCP connection between HNBGW and CBC server has been brought down. This could occur during any of the following scenarios.
1. Network connectivity between HNBGW and CBC server is broken.
2. CBC Server gracefully terminates the TCP connection with HNBGW.
3. HNBGW gracefully terminates the TCP connection with CBC server. This is typically due to operation intervention effected cbs-service.

Action to be Taken: In case the that TCP connection between HNBGW and CBC server is abnormally closed, check for network connectivity between HNBGW and CBC server.

Condition Clear Alarm: In case the that connection termination is abnormal, a IuBcTCPConnUp notification will be generated when the TCP connection is up.
Objects
starCBSServiceVpnName
starIuBcSelfIpAddr
starIuBcSelfPortNum
starIuBcPeerIpAddr
starIuBcPeerPortNum
starIuBcTcpConnCauseStr

Object
starIuBcTcpConnUp

Object ID
enterprise.8164.2.1533

Description
A TCP Connection is up.

Objects
starCBSServiceVpnName
starIuBcSelfIpAddr
starIuBcSelfPortNum
starIuBcPeerIpAddr
starIuBcPeerPortNum
starIuBcTcpConnCauseStr
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.**
- **enterprispecific.**
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
starCardHaltIssued
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
starSessInProgAuthenticateing
starSessInProgAuthenticated
starSessInProgIPCPUp
starSessInProgSIPConn
starSessInProgMIPConn
starSessInProgDisc
starSessMgrCount
starSessTtlArrived
starSessTtlRejected
starSessTtlConnected
starSessTtlAuthSucc
starSessTtlAuthFail
starSessTtlLCPUp
starSessTtlIPCPUp
starSessTtlSrcViol
starSessTtlKeepFail
starSessTtlOctForwarded
starSessTtlRPRegAccept
starSessTtlRPRegAcceptInterPDSN
starPPPCurrSessions
starSessTtlTxBytes
starSessTtlRxBytes
starSessTtlSIPTxBytes
starSessTtlSIPRxBytes
starSessTtlMIPTxBytes
starSessTtlMIPRxBytes
starSessTtlOctForwardedGB
starSessTtlOctForwardedRev1
starSessTtlTxBsBytesRev1
starSessTtlRxBytesRev1
starSessTtlSIPTxBsBytesRev1
starSessTtlSIPRxBsBytesRev1
starSessTtlMIPTxBytesRev1
starSessTtlMIPRxBytesRev1
starSessTtlOctForwardedGBRev1
starAAAMgrCount
starAAATtlRequests
starAAATtlAuthRequests
starAAATtlAcctRequests
starAAACurRequests
starAAACurAuthRequests
starAAACurAcctRequests
starAAATtlAcctSess
starAAACurAcctSess
starAAATtlAuthSuccess
starAAATtlAuthFailure
starA11MgrCount
starA11TtlTtlArrived
starA11TtlTtlRejected
starA11TtlTtlDemultiplexed
starA11TtlTtlDereg
starA11CurActive
starHAMgrCount
starHATtlArrived
starHATtlRejected
starHATtlTtlDemultiplexed
starHATtlTtlDereg
starHACurActive
starFAMgrCount
starFATtlArrived
starFATtlRejected
starFATtlTtlDemultiplexed
starFATtlTtlDereg
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
starPPPStatLcpFailMaxRetry
starPPPStatLcpFailOption
starPPPStatCcpFail
starPPPStatAuthFail
starPPPStatLcpEntered
starPPPStatAuthEntered
starPPPStatLcpEntered
starPPPStatRenegPdsn
starPPPStatRenegMobil
starPPPStatRenegAddrMismatch
starPPPStatRenegOther
starPPPStatChapAuthAttempt
starPPPStatPapAuthAttempt
starPPPStatMSChapAuthAttempt
starPPPStatChapAuthFail
starPPPStatPapAuthFail
starPPPStatMSChapAuthFail
starPPPStatStacComp
starPPPStatMppcComp
starPPPStatDeflComp
starPPPStatFscErrs
starPPPStatUnknProto
starPPPStatBadAddr
starPPPStatBadCtrl
starPPPStatVjComp
starPPPStatDiscLcpRemote
starPPPStatDiscRpRemote
starPPPStatDiscAdmin
starPPPStatDiscIdleTimeout
starPPPStatDiscAbsTimeout
starPPPStatDiscPPPKeeperalive
starPPPStatDiscNoResource
starPPPStatDiscMisc
starPPPStatFailedReneg
starPPPStatLcpFailUnknown
starPPPStatIpcpFailUnknown
starPPPStatAuthAbort
starPPPStatLowerLayerDisc
starPPPStatLcpSuccess
starPPPStatAuthSuccess
starPPPStatRenegLowerLayerHandoff
starPPPStatRenegParamUpdate
starPPPStatChapAuthSuccess
starPPPStatPapAuthSuccess
starPPPStatMSChapAuthSuccess
starPPPStatChapAuthAbort
starPPPStatPapAuthAbort
starPPPStatMSChapAuthAbort
starPPPStatSessSkipAuth
starPPPStatNegComp
starPPPStatCCPNegFailComp
starPPPStatDiscLocalLowerLayer
starPPPStatDiscAddFlowFail
starPPPStatDiscMaxRetriesLCP
starPPPStatDiscMaxRetriesIPCP
starPPPStatDiscMaxSetupTimer
starPPPStatDiscInvalidDestVpn
starPPPStatDiscOptNegFailLCP
starPPPStatDiscOptNegFailIPCP
starPPPStatDiscNoRemoteIpAddr
starPPPStatDiscCallTypeDetectFail
starPPPStatDiscRemoteDiscUpLayer
starPPPStatDiscLongDuraTimeout
starPPPStatDiscAuthFail
starPPPStatLCPEchoTotalReq
starPPPStatLCPEchoReqResent
starPPPStatLCPEchoRepRecved
starPPPStatLCPEchoReqTimeout
starPPPStatRecvErrBadCtrlField
starPPPStatRecvErrBadPacketLen
starPPPStatRemoteTerm
starPPPStatMiscFail
starMIPHAStatVpnID
starMIPHAStatVpnName
starMIPHAStatServName
starMIPHAStatDisconnects
starMIPHAStatExpiry
starMIPHAStatDereg
starMIPHAStatAdminDrop
starMIPHAStatRegRecvTotal
starMIPHAStatRegRecvInitial
starMIPHAStatRegRecvRenew
starMIPHAStatRegRecvDereg
starMIPHAStatRegAcceptTotal
starMIPHAStatRegAcceptReg
starMIPHAStatRegAcceptRenew
starMIPHAStatRegAcceptDereg
starMIPHAStatRegDeniedTotal
starMIPHAStatRegDeniedInitial
starMIPHAStatRegDeniedRenew
starMIPHAStatRegDeniedDereg
starMIPHAStatRegReplyTotal
starMIPHAStatRegReplyAcceptReg
starMIPHAStatRegReplyAcceptDereg
starMIPHAStatRegReplyDenied
starMIPHAStatRegReplyBadReq
starMIPHAStatRegReplyMismatchID
starMIPHAStatRegReplyAdminProhib
starMIPHAStatRegReplyUnspecErr
starMIPHAStatRegReplyNoResource
starMIPHAStatRegReplyMnAuthFail
starMIPHAStatRegReplyFAAuthFail
starMIPHAStatRegReplySimulBind
starMIPHAStatRegReplyUnknownHA
starMIPHAStatRegReplyRevTunUnav
starMIPHAStatRegReplyRevTunMand
starMIPHAStatRegReplyEncapUnav
starMIPHAStatRegReplySendError
starMIPHAStatFARevocations
starMIPHAStatRegAcceptHO
starMIPHAStatRegDeniedHO
starMIPHAStatRegDiscardTotal
starMIPFAStatVpnID
starMIPFAStatVpnName
starMIPFAStatServName
starMIPFAStatAdvertSend
starMIPFAStatDiscExpiry
starMIPFAStatDiscDereg
starMIPFAStatDiscAdmin
starMIPFAStatAuthAttempt
starMIPFAStatAuthSuccess
starMIPFAStatAuthFailure
starMIPFASstatRegRecvTotal
starMIPFASstatRegRecvInitial
starMIPFASstatRegRecvRenewal
starMIPFASstatRegRecvDereg
starMIPFASstatRegAcceptTotal
starMIPFASstatRegAcceptInitial
starMIPFASstatRegAcceptRenewal
starMIPFASstatRegAcceptDereg
starMIPFASstatRegDenTotal
starMIPFASstatRegDenInitial
starMIPFASstatRegDenRenewal
starMIPFASstatRegDenDereg
starMIPFASstatRegDiscardTotal
starMIPFASstatRegDiscInitial
starMIPFASstatRegDiscardRenewal
starMIPFASstatRegDiscardDereg
starMIPFASstatRegRelayedTotal
starMIPFASstatRegRelayedInitial
starMIPFASstatRegRelayedRenewal
starMIPFASstatRegRelayedDereg
starMIPFASstatRegAuthFailTotal
starMIPFASstatRegAuthFailInitial
starMIPFASstatRegAuthFailRenewal
starMIPFASstatRegAuthFailDereg
starMIPFASstatRegDenPDSNTotal
starMIPFASstatRegDenPDSNInitial
starMIPFASstatRegDenPDSNRenewal
starMIPFASstatRegDenPDSNDereg
starMIPFASstatRegDenHATotal
starMIPFASstatRegDenHAInitial
starMIPFASstatRegDenHARenewal
starMIPFASstatRegDenHADereg
starMIPFASstatRegDenPDSNUnspec
starMIPFASstatRegDenPDSNTimeout
starMIPFASstatRegDenPDSNAdmin
starMIPFAStatRegDenPDSNResources
starMIPFAStatRegDenPDSNMnAuth
starMIPFAStatRegDenPDSNHAAuth
starMIPFAStatRegDenDSNTooLong
starMIPFAStatRegDenPDSNBadReq
starMIPFAStatRegDenPDSNEncapUnav
starMIPFAStatRegDenPDSNRevTunUnav
starMIPFAStatRegDenPDSNRevTunMand
starMIPFAStatRegDenHAFAuth
starMIPFAStatRegDenHABadReq
starMIPFAStatRegDenHAMismatchID
starMIPFAStatRegDenHASimulBind
starMIPFAStatRegDenHAUnknownHA
starMIPFAStatRegDenHARevRunUnavail
starMIPFAStatRegRplRcvTotal
starMIPFAStatRegRplRcvTotalRly
starMIPFAStatRegRplRcvErrors
starMIPFAStatRegRplRcvInitial
starMIPFAStatRegRplRcvInitialRly
starMIPFAStatRegRplRcvRenewal
starMIPFAStatRegRplRcvRenewalRly
starMIPFAStatRegRplRcvDereg
starMIPFAStatRegRplRcvDeregRly
starMIPFAStatRegRpsSentTotal
starMIPFAStatRegRpsSentAcceptReg
starMIPFAStatRegRpsSentAcceptDereg
starMIPFAStatRegRpsSentBadReq
starMIPFAStatRegRpsSentTooLong
starMIPFAStatRegRpsSentMnAuthFail
starMIPFAStatRegRpsSentHAAuthFail
starMIPFAStatRegRpsSentAdminProhib
starMIPFAStatRegRpsSentNoResources
starMIPFAStatRegRpsSentRevTunUnav
starMIPFAStatRegRpsSentRevTunMand
starMIPFAStatRegRpsSentSendErrors
starMIPFAStatRegDenPDSNBadReply
starMIPFAStatRegDenPDSNMissNAI
starMIPFAStatRegDenPDSNMissHomeAgent
starMIPFAStatRegDenPDSNMissHomeAddr
starMIPFAStatRegDenPDSNUnknChallenge
starMIPFAStatRegDenPDSNMissChallenge
starMIPFAStatRegDenPDSNStaleChallenge
starMIPFAStatRegDenPDSNMTooDistant
starMIPFAStatRegDenPDSNSStyleUnavail
starMIPFAStatRegDenPDSNHANetUnreach
starMIPFAStatRegDenPDSNHAHostUnreach
starMIPFAStatRegDenPDSNHAPortUnreach
starMIPFAStatRegDenPDSNHAUnreach
starMIPFAStatRegDenPDSNIInvCOA
starMIPFAStatRegReqSentInitTotal
starMIPFAStatRegReqSentInitResend
starMIPFAStatRegReqSentRenewTotal
starMIPFAStatRegReqSentRenewResend
starMIPFAStatRegReqSentDeregTotal
starMIPFAStatRegReqSentDeregResend
starMIPFAStatRegRplSentMTooDistant
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
starRPRegActvStartRenew
starRPRegActvStopRenew
starRPRegRecvDereg
starRPRegAcceptActvStopDereg
starRPDiscSessAbsent
starRPDiscNoMemory
starRPDiscMalformed
starRPDiscAuthFail
starRPDiscInternalBounce
starRPDiscInpuQueueExceeded
starRPDiscMismatchedId
starRPDiscInvPacketLen
starRPDiscMisc
starRP1xTxBytes
starRP1xRxBytes
starRP1xTxPackets
starRP1xRxPackets
starRPDoTxBytes
starRPDoRxBytes
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
starSessSub1AAAStrart
starSessSub1AAASStop
starSessSub1AAAlInterim
starSessSub1AcctSessionID
starSessSub1AAARadiusGroup
starSessSub1AAARadiusAuthServerIPAddr
starSessSub1AAARadiusAcctServerIPAddr
starSessSub1NASIPAddr
starSessSub1NexthopIPAddr
starSessSub1ActiveInACL
starSessSub1ActiveOutACL
starSessSub1ECSSubRulebase
starSessSub1InPlcyGrp
starSessSub1OutPlcyGrp
starSessSub1DownTrafPolState
starSessSub1DownCommDataRate
starSessSub1DownPeakDataRate
starSessSub1DownBurstSize
starSessSub1DownExceedAction
starSessSub1DownViolateAction
starSessSub1DownExceed
starSessSub1DownViolate
starSessSub1UpTrafPolState
starSessSub1UpCommDataRate
starSessSub1UpPeakDataRate
starSessSub1UpBurstSize
starSessSub1UpExceedAction
starSessSub1UpViolateAction
starSessSub1UpExceed
starSessSub1UpViolate
starSessSub1L3TunnelingState
starSessSub1L3TunLocalIPAddr
starSessSub1L3TunRemoteIPAddr
starSessSub1AddrViaDHCP
starSessSub1DHCPServName
starSessSub1DHCPServIPAddr
starSessSub1AccessLinkIPFrag
starSessSub1IgnoreDFBit
starSessSub1MIPGratARPMode
starSessSub1ExtInlSrrvrProc
starSessSub1ExtInlSrrvrIngrIPAddr
starSessSub1ExtInlSrrvrIngrVLANTag
starSessSub1ExtInlSrrvrEgrIPAddr
starSessSub1ExtInlSrrvrEgrVLANTag
starSessSub1ExtInlSrrvrVPNName
starSessSub1RadAcctMode
starSessSub1InBytesDropped
starSessSub1OutBytesDropped
starSessSub1PeakBPSTx
starSessSub1PeakBPSPRx
starSessSub1AveBPSTx
starSessSub1AveBPSPRx
starSessSub1SustBPSTx
starSessSub1SustBPSPRx
starSessSub1PeakPPSTx
starSessSub1PeakPPSPRx
starSessSub1AvePPSTx
starSessSub1AvePPSPRx
starSessSub1SustPPSTx
starSessSub1SustPPSPRx
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
starSessSub1IPv4EarlyPDURecv
starIPSECCCtxName
starIPSECGroupName
starIPSECTunLocalIPAddr
starIPSECTunRemoteIPAddr
starIPSECPolicyName
starIPSECDynPolicyType
starIPSECDynPolicyPayloadType
starIPSECLocalGateway
starIPSECRemoteGateway
starSIPROutVpnName
starSIPROutVmgName
starSIPROutAsName
starSIPROutDestPartyNum
starSIPROutReqNum
starSIPROutServerVpnName
starSIPROutServerVmgName
starSIPROutServerAsName
starSIPROutServerIpAddr
starVIMServiceVpnName
starVIMServiceFMDMaxCallRate
starVIMServiceFMDContinuousLoadCount
starGSSClusterName
starGSSClusterNodeName
starGSSClusterRgName
starGSSClusterRsName
starGSSClusterNodeState
starGSSClusterPrevOnlineNode
starGSSClusterFromNode
starGSSClusterToNode
starGSSDiskPath
starGSSTransportPath
starGSSIPMPGroupName
starGSSInterfaceName
starRPServiceOptionCalls
starPCFStatVpnName
starPCFStatRxPkts
starPCFStatTxPkts
starPCFStatRxBytes
starPCFStatTxBytes
starPCFStatTotalSessions
starPCFStatCurrentSessions
starPCFStatCurrentActiveSessions
starPCFStatCurrentDormantSessions
starPCFStatCurrentSIPConnected
starPCFStatCurrentMIPConnected
starPCFStatCurrentPMIPConnected
starPCFStatCurrentL2TPLACConnected
starPCFStatCurrentOtherConnected
starPCFServName
starPCFRrqRcvd
starPCFRrqAccepted
starPCFRrqDenied
starPCFRrqDiscarded
starPCFInitialRrqRcvd
starPCFInitialRrqAccepted
starPCFInitialRrqDiscarded
starPCFInitialRrqDenied
starPCFInitialRrqActive
starPCFRenewRrqRcvd
starPCFRenewRrqAccepted
starPCFRenewRrqDenied
starPCFRenewActiveRrqAccepted
starPCFRenewDormantRrqAccepted
starPCFRenewRrqDenied
starPCFRelinQqDiscarded
starPCFDeregRqRcvd
starPCFDeregRqAccepted
starPCFDeregDormantRqAccepted
starPCFDeregRqDenied
starPCFDeregRqDiscarded
starPCFIntraPDSNActiveAnidHorRqAccepted
starPCFIntraPDSNDormantAnidHorRqAccepted
starPCFDenegUnSpeReason
starPCFDenegAdmProh
starPCFDenegInsufResource
starPCFDenegMobNodeAuthFail
starPCFDenegIdentMischmatch
starPCFDenegPoorFormedReq
starPCFDenegUnknownPDSNAaddr
starPCFDenegRevTunnelUnavail
starPCFDenegRevTunnelRequire
starPCFDenegUnrecogVendorId
starPCFDenegSessionClosed
starPCFDenegBsnSessionInfoUnavail
starPCFRegUpdTransmitted
starPCFRegUpdAccepted
starPCFRegUpdateRplLifeTimeExpiry
starPCFRegUpdateUpperLayerInititated
starPCFRegUpdateOtherReason
starPCFRegUpdateHorRelease
starPCFRegUpdateSessmgrDied
starPCFAuxA10ConnectionsSetup
starPCFSessionsDenied
starPCFSessionsInit
starPCFSessionsReneg
starPCFDiscLcpRemote
starPCFDiscRplRemote
starPCFDiscRplLocal
starPCFDiscMaxLcpRetr
starPCFDiscMaxIPv6LcpRetr
starPCFDiscMaxLcpRetr
starPCFDiscAuthFail
starPCFDiscSessSetupTimeout
starPCFDiscFlowAddFail
starPCFDiscInvDestContext
starPCFDiscLcpOptFail
starPCFDiscIpcpOptFail
starPCFDiscIpv6cpOptFail
starPCFDiscNoRemIpAddr
starPCFDiscDetectionFail
starPCFDiscMisc
starPCFCurrentSessions
starPCFSessionsSetup
starPCFSessionsRelease
starPCCurrentRevaSessions
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,
starSS7MTP3LinkSetId,
starSS7MTP3LinkId,
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
starGPRSNsvei
starGPRSBvci
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
starPDGSysSessTitlSetup
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
starSessHNBGWPsnWnName  
starSessHNBGWSgsnPtCnD  
starSessHNBGWMscPtCnD  
starHENBGWServiceVpnName  
starHENBGWServiceServName  
starHENBGWServiceLogicalENBId  
starHENBGWServiceMMEServName  
starHENBGWServicePeerAddr  
starHENBGWServicePeerPort  
starSessALCAPVpnName  
starSessALCAPServName  
starSessALCAPAAL2NodeName  
starSessALCAPPathId  
starMVGEndpntName  
starMVGCauseCode  
starMVGProtocolType  
starPCCNtfyInfPntPeerName  
starPMIPvPnName  
starPMIPServName  
starPMIPSelfAddrType  
starPMIPSelfAddr  
starPMIPPeerAddrType  
starPMIPPeerAddr  
starPMIPPeerOldRstCnt  
starPMIPPeerNewRstCnt  
starPMIPPeerSessCnt  
starPMIPFailureReason  
starCBSvPnName  
starIuBcSelfPortNum  
starIuBcSelfIpAddr  
starIuBcPeerPortNum  
starIuBcPeerIpAddr  
starIuBcTcpConnCauseStr

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
starNPUARPearPoolExhausted
starPowerFilterUnitFailed
starPowerFilterUnitUnavail
starPowerFilterUnitAvail
starAlertsDisabled
starAlertsEnabled
starAAAAuthServerUnreachable
starAAAAuthServerReachable
starAAAAuthServerMisconfigured
starAAACcServerUnreachable
starAAACcServerReachable
starAAACcServerMisconfigured
starLogMsg
starPDSNServiceStart
starPDSNServiceStop
starHAServiceStart
starHAServiceStop
starFAServiceStart
starFAServiceStop
starCLISessionStart
starCLISessionEnd
starCritTaskFailed
starCardActive
starLACServiceStart
starLACServiceStop
starLNSServiceStart
starLNSServiceStop
starCardDown
starGGSNServiceStart
starGGSNServiceStop
starLicenseExceeded
starSubscriberLimit
starSessionRejectNoResource
starSIPServiceStart
starSIPServiceStop
starVIMServiceStart
starVIMServiceStop
starCHATCONFServiceStart
starCHATCONFServiceStop
starSIPRouteNomatch
star13addrunreachable
starSWUpgradeStart
starSWUpgradeComplete
starSWUpgradeAborted
starBGPPeerSessionUp
starBGPPeerSessionDown
starSRPActive
starSRPStandby
starBGPPeerReachable
starBGPPeerUnreachable
starSRPAAAReachable
starSRPAAUnreachable
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
starCSCFServeStart
starCSCFServeStop
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
starVLRAllAssocDown
starVLRAllAssocDownClear
starVLRDown
starVLRUp
starStorageServerAlive
starStorageServerDead
starGgsnInitiatedUpdtFailed
starCongestion
starCongestionClear
starCscfSessResourceCongestion
starCscfSessResourceCongestionClear
starServiceLossPTACs
starServiceLossLC
starServiceLossSPIO
starIPSPAllAddrsFree
starPCFUreachable
starPCFReachable
starLIRcvryError
starLIRcvryComplete
starCGWServiceStart
starCGWServiceStop
starDhcpAlive
starDhcpDead
starDhcpServiceStarted
starDhcpServiceStopped
starNTPPeerUnreachable
starNTPSyncLost
starL2TPTunnelDownPeerUnreachable
starCardStandby
starLicenseUnderLimit
starIPSECPriTunDown
starIPSECPriTunUp
starIPSECSecTunDown
starIPSECSecTunUp
starIPSECTunSwitchFail
starIPSECTunSwitchComplete
starNwReachServerAlive
starNwReachServerDead
starStorageServerUnackedGcdrVolPurge
starStorageServerUnackedGcdrFileGen
starNTPPeerReachable
starNTPSyncEstablished
starContFiltDBError
starContFiltDBErrorClear
starPDIFServiceStart
starBLDBError
starBLDBErrorClear
starContFiltDBUpgradeError
starContFiltDBUpgradeErrorClear
starBLDBUpgradeError
starBLDBUpgradeErrorClear
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
starSCCPSPspRecvd
starSCCPSPspClear
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
starHENBGWMMESCTPAAllAssocDown
starHENBGWMMESCTPAAllAssocDownClear
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
starApsFeProtLineFailure
starApsLossOfRedundancy
starApsLossOfRedundancyClear
starSGSServiceStart
starSGSServiceStop
starSgsnGnMsgDelay
starSgsnGnMsgDelayClear
starBNGServiceStart
starBNGServiceStop
starHenbgwAccessServiceStart
starHenbgwAccessServiceStop
starHenbgwNetworkServiceStart
starHenbgwNetworkServiceStop
starThreshDnsLookupFailure
starThreshClearDnsLookupFailure
starThreshDiameterRetryRate
starThreshClearDiameterRetryRate
starMMES1AssocFail
starMMES1AssocSetup
starMMES1PathFail
starMMES1PathSetup
starHNBGWSGSNRanapReset
starHNBGWMSCRanapReset
starALCAPNodeReset
starALCAPPathReset
starALCAPPathBlock
starALCAPPathUnBlock
starThreshHNBGWHnbSess
starThreshClearHNBGWHnbSess
starThreshHNBGWUeSess
starThreshClearHNBGWUeSess
starThreshHNBGWiuSess
starThreshClearHNBGWiuSess
starMVGPeerDown
starMVGPeerUp
starThreshSystemCapacity
starThreshClearSystemCapacity
starThreshClearHNBGWiuSess
starThreshTpoRtoTimeout
starThreshClearTpoRtoTimeout
starThreshTpoDnsFailure
starThreshClearTpoDnsFailure
starThreshTpoLowCompressionGain
starThreshClearTpoLowCompressionGain
starSgSNRNCNoResetAck
starSAEGWSessThreshold. Note: this is now starThreshSAEGWSessions
starSAEGWSessThresholdClear. 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
starSLSServiceStart
starSLSServiceStop
starESMLCAssocDown
starESMLCAssocUp
starESMLCAllAssocDown
starESMLCAllAssocDownClear
starSBCServiceStart
starSBCServiceStop
starCBCAssocDown
starCBCAssocUp
starThreshFabricEGQDiscards
starThreshClearFabricEGQDiscards
starHENBGWMMEOverloadStart
starHENBGWMMEOverloadStop
starIuBcTcpConnDown
starIuBcTcpConnUp
starFTPPushFail
starFTPServSwitch
starThreshCPUUtilization
starThreshClearCPUUtilization
starThreshCPUMemory
starThreshClearCPUMemory
starThreshLicence
starThreshClearLicence
starThreshSubscriberTotal
starThreshClearSubscriberTotal
starThreshSubscriberActive
starThreshClearSubscriberActive
starThreshPortRxUtil
starThreshClearPortRxUtil
starThreshPortTxUtil
starThreshClearPortTxUtil
starThreshPortHighActivity
starThreshClearPortHighActivity
starThreshAAAAuthFail
starThreshClearAAAAuthFail
starThreshAAAAuthFailRate
starThreshClearAAAAuthFailRate
starThreshAAACctFail
starThreshClearAAACctFail
starThreshAAACctFailRate
starThreshClearAAACctFailRate
starThreshAAARetryRate
starThreshClearAAARetryRate
starThreshCallSetup
starThreshClearCallSetup
starThreshCallSetupFailure
starThreshClearCallSetupFailure
starThreshCallRejectNoResource
starThreshClearCallRejectNoResource
starThreshPacketsFilteredDropped
starThreshClearPacketsFilteredDropped
starThreshPacketsForwarded
starThreshClearPacketsForwarded
starThreshSessCPUThroughput
starThreshClearSessCPUThroughput
starThreshIPPoolAvail
starThreshClearIPPoolAvail
starThreshCPUUtilization10Sec
starThreshClearCPUUtilization10Sec
starThreshCPULoad
starThreshClearCPULoad
starThreshCPUMemUsage
starThreshClearCPUMemUsage
starThreshPDSNSessions
starThreshClearPDSNSessions
starThreshGGSNSessions
starThreshClearGGSNSessions
starThreshHASessions
starThreshClearHASessions
starThreshLNSSessions
starThreshClearLNSSessions
starThreshPerServicePDSNSessions
starThreshClearPerServicePDSNSessions
starThreshPerServiceGGSNSessions
starThreshClearPerServiceGGSNSessions
starThreshPerServiceHASessions
starThreshClearPerServiceHASessions
starThreshPerServiceLNSSessions
starThreshClearPerServiceLNSSessions
starThreshIPPoolHold
starThreshClearIPPoolHold
starThreshIPPoolUsed
starThreshClearIPPoolUsed
starThreshIPPoolRelease
starThreshClearIPPoolRelease
starThreshIPPoolFree
starThreshClearIPPoolFree
starThreshAAAACctArchive
starThreshClearAAAACctArchive
starThreshPortSpecRxUtil
starThreshClearPortSpecRxUtil
starThreshPortSpecTxUtil
starThreshClearPortSpecTxUtil
starThreshHACallSetupRate
starThreshClearHACallSetupRate
starThreshHASvcCallSetupRate
starThreshClearHASvcCallSetupRate
starThreshHASvcRegReplyError
starThreshClearHASvcRegReplyError
starThreshHASvcReregReplyError
starThreshClearHASvcReregReplyError
starThreshHASvcDeregReplyError
starThreshClearHASvcDeregReplyError
starThreshFASvcRegReplyError
starThreshClearFASvcRegReplyError
starThreshPDSNCallSetupRate
starThreshClearPDSNCallSetupRate
starThreshPDSNSvcCallSetupRate
starThreshClearPDSNSvcCallSetupRate
starThreshPDSNSvcA11RRPFailure
starThreshClearPDSNSvcA11RRPFailure
starThreshPDSNSvcA11RQRMsgDiscard
starThreshClearPDSNSvcA11RQRMsgDiscard
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
starThreshDCCAUknownRatingGroup
starThreshClearDCCAUknownRatingGroup
starThreshDCCARatingFailed
starThreshClearDCCARatingFailed
starThreshIPSECIKERequests
starThreshClearIPSECIKERequests
starThreshIPSECIKEFailures
starThreshClearIPSECIKEFailures
starThreshIPSECIKEFailRate
starThreshClearIPSECIKEFailRate
starThreshIPSECTunSetup
starThreshClearIPSECTunSetup
starThreshIPSECTunEstabl
starThreshClearIPSECTunEstabl
starThreshIPSECCallReqRej
starThreshClearIPSECCallReqRej
starThreshCSCFSvcRouteFailure
starThreshClearCSCFSvcRouteFailure
starThreshCSCFSvcRegRcvdRate
starThreshClearCSCFSvcRegRcvdRate
starThreshCSCFSvcTotalActiveReg
starThreshClearCSCFSvcTotalActiveReg
starThreshCSCFSvcInviteRcvdRate
starThreshClearCSCFSvcInviteRcvdRate
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
starThreshPerServiceSGSNSessions
starThreshClearPerServiceSGSNSessions
starThreshSGSNPdpSessions
starThreshClearSGSNPdpSessions
starThreshPerServiceSGSNPdpSessions
starThreshClearPerServiceSGSNPdpSessions
starThreshASNGWSessTimeout
starThreshClearASNGWSessTimeout
starThreshASNGWSessSetupTimeout
starThreshClearASNGWSessSetupTimeout
starThreshASNGWAuthFail
starThreshClearASNGWAuthFail
starThreshASNGWMaxEAPRetry
starThreshClearASNGWMaxEAPRetry
starThreshASNGWEntryDenial
starThreshClearASNGWEntryDenial
starThreshASNGWHandoffDenial
starThreshClearASNGWHandoffDenial
starThreshPHSGWSessTimeout
starThreshClearPHSGWSessTimeout
starThreshPHSGWSSessSetupTimeout
starThreshClearPHSGWSSessSetupTimeout
starThreshPHSGWAuthFail
starThreshClearPHSGWAuthFail
starThreshPHSGWMaxEAPRetry
starThreshClearPHSGWMaxEAPRetry
starThreshPHSGWNWEntryDenial
starThreshClearPHSGWNWEntryDenial
starThreshPHSGWHandoffDenial
starThreshClearPHSGWHandoffDenial
starThreshMeasuredInt
starThreshASNGWSessions
starThreshClearASNGWSessions
starThreshPerServiceASNGWSessions
starThreshClearPerServiceASNGWSessions
starThreshPHSPCSessSetupTimeout
starThreshClearPHSPCSessSetupTimeout
starThreshPHSPCSleepModeTimeout
starThreshClearPHSPCSleepModeTimeout
starThreshPHSPCSEntryDenial
starThreshClearPHSPCSEntryDenial
starThreshSGWSessions
starThreshClearSGWSessions
starThreshPGWSessions
starThreshClearPGWSessions
starThreshLMASessions
starThreshClearLMASessions
starThreshMAGSessions
starThreshClearLMASessions
starThreshClearMAGSessions
starThreshHSGWSessions
starThreshClearHSGWSessions
starThreshHENBGWHenbSessions
starThreshClearHENBGWHenbSessions
starThreshHENBGWUeSessions
starThreshClearHENBGWUeSessions
starThreshHENBGWPagingMessages
starThreshClearHENBGWPagingMessages
starThreshPHSGWMaxEAPOLRetry
starThreshClearPHSGWMaxEAPOLRetry
starThreshFWDosAttack
starThreshClearFWDosAttack
starThreshFWDropPacket
starThreshClearFWDropPacket
starThreshFWDenyRule
starThreshClearFWDenyRule
starThreshFWNooRule
starThreshClearFWNooRule
starSRPConnDown
starSRPConnUp
starThreshNATPortChunks
starThreshClearNATPortChunks
starThreshClearFWDosAttack
starThreshFWDropPacket
starThreshClearFWDropPacket
starThreshGPRSSEessions
starThreshClearGPRSSEessions
starThreshPerServiceGPRSSEessions
starThreshClearPerServiceGPRSSEessions
starThreshGPRSPdpSessions
starThreshClearGPRSPdpSessions
starThreshPerServiceGPRSPdpSessions
starThreshClearPerServiceGPRSPdpSessions
starThreshFWDenyRule
starThreshClearFWDenyRule
starThreshFWNorule
starThreshClearFWNorule
starThreshBGPRoutes
starThreshClearBGPRoutes
starThreshNPUUtilization
starThreshClearNPUUtilization
starThreshEPDGCCurrSess
starThreshClearEPDGCCurrSess
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
starSDHLoUp
starSDHE1TribUp
starSDHE1TribDown
starSDHFracE1LMIDown
starSDHFracE1LMIUp
starGPRSServiceStart
starGPRSServiceStop
starGPRSNeDown
starGPRSNseDown
starGPRSNeUp
starGPRSNseUp
starGPRSNsvcDown
starGPRSNsvcUp
starGPRSBvcDown
starGPRSBvcUp
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
starGPRSNeDown
starGPRSNeUp
starGPRSSvcDown
starGPRSSvcUp
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
terprise.8164.3.1.7

Description
A collection of objects which are obsolete.

Objects
starRPRegAcceptIntraPDSN
starSlotVoltage1dot5
starSlotVoltage1dot5LowThresh
starSlotVoltage1dot5HighThresh
starSlotVoltage1dot8
starSlotVoltage1dot8LowThresh
starSlotVoltage1dot8HighThresh
starSlotVoltage2dot5
starSlotVoltage2dot5LowThresh
starSlotVoltage2dot5HighThresh
starSlotVoltage3dot3
starSlotVoltage3dot3LowThresh
starSlotVoltage3dot3HighThresh
starSlotVoltage5dot0
starSlotVoltage5dot0LowThresh
starSlotVoltage5dot0HighThresh

enterprise.8164.3.starentMIBCompliances(2)

Object
starentMIBCompliances

Object ID
terprise.8164.3.2.1

Description
The statement listing compliant mandatory groups.

Required Groups
starChassisGroup
starAlertGroup
starAlertTrapGroup
starTrapGroup

**Optional Groups**
starTrapObsoleteGroup
starChassisObsoleteGroup
Chapter 4
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 2. IPMS Application MIB Tree

```
Iso.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.starIPSMIBObjects(1)

Object

starIPMSTimeTicks

Object ID
time.16.102.1.1

Description
This object indicates the time when this notification was generated.

Syntax
TimeStamp

Access
Read-Only

Object

starIPMSComponentName

Object ID
time.16.102.1.2

Description
This object indicates the name of the IPMS application component.

Syntax
DisplayString

Access
Read-Only

Object

starIPMSTaskInfo

Object ID
time.16.102.1.3

Description
This object indicates the IPMS process facility name and instance id of the IPMS application.

Syntax
DisplayString
Access

Read-Only

Object

starIPMSProcessMaxRestartCnt

Object ID
enterprise.8164.102.1.4

Description
This object indicates the maximum restart counts for IPMS processes.

Syntax
Unsigned32

Access
Read-only

Object

starIPMSProcessRestartWaitTime

Object ID
enterprise.8164.102.1.5

Description
This object indicates the waiting period in seconds to restart IPMS processes.

Syntax
Unsigned32

Access
Read-only

Object

starIPMSPacketLossCnt

Object ID
enterprise.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
t
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

starIPMSDPIFailureReason

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

starIPMSDPIDetails

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)
Object

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)

Object

starIPMSResourceCurrentValue
Object ID
t
enterprise.8164.102.1.14
t
Description
t
This object indicates the current value/status of IPMS process resources like CPU, memory, disk space etc.
t
Syntax
t
DisplayString
t
Access
t
Read-only
t
Object

starIPMSResourceConfThreshold
t
Object ID
t
enterprise.8164.102.1.15

Description
t
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
t
DisplayString
t
Access
t
Read-only

Object

starIPMSPeerName

Object ID
t
enterprise.8164.102.1.16

Description
t
This object indicates the name of the IPMS peer server.

Syntax
t
DisplayString
t
Access
t
Read-only

Object

starIPMSPeerIP
Description
This object indicates the IP address of the IPMS peer server.

Syntax
DisplayString

Access
Read-only

Object
starIPMSPeerPort

Object ID
enterprise.8164.102.1.18

Description
This object indicates the port number of the IPMS server peer.

Syntax
DisplayString

Access
Read-only

Object
starIPMSICMPState

Object ID
enterprise.8164.102.1.19

Description
This object indicates the status of the Internet Control Message Protocol (ICMP) link between IPMS components and AGW. Possible state is either Up (1) or Down (2).

Syntax
Integer

Access
Read-only

Enumeration
icmptestateup(1)
icmpstateup(2)

Object
starIPMSCORBAState

Object ID
enterprise.8164.102.1.20
Description
This object indicates the status of the Common Object Request Broker Architecture (CORBA) link between IPMS components and AGW. Possible state is either Up (1) or Down (2).

Syntax
Integer

Access
Read-only

Enumeration
corbasateup(1)
corbastatedown(2)

enterprise.8164.102.starIPMSMIBTraps(2)

Object
starIPMSComponentStart

Object ID
time.8164.102.2.1

Description
This notification generated when an IPMS component started successfully.

Objects
starIPMSComponentName

Object
starIPMSComponentStop

Object ID
time.8164.102.2.2

Description
This notification generated when an IPMS component stopped or going for shutting down.

Objects
starIPMSComponentName

Object
starIPMSProcessStart

Object ID
time.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
starIPMSCOMPONENTNAME
starIPMSProcessMaxRestartCnt
starIPMSTaskInfo
starIPMSProcessRestartWaitTime

Object
starIPMSPacketLossThreshold

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
starIPMSPacketLossCnt
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)**

<table>
<thead>
<tr>
<th>Object</th>
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<tbody>
<tr>
<td>starIPMSMIBCompliance</td>
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<table>
<thead>
<tr>
<th>Object ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>enterprise.8164.102.3.1.1</td>
</tr>
</tbody>
</table>

**Description**
The compliance statements for entities which implement the STARENT IPMS MIB.

**Objects**
starIPMSObjectGroup
starIPMSNotifGroup

**enterprise.8164.102.3.starIPMSMIBGroups(2)**

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

<table>
<thead>
<tr>
<th>Object ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>enterprise.8164.102.3.2.1</td>
</tr>
</tbody>
</table>

**Description**
This group is a collection of objects related with notification management on IPMS.

**Objects**
starIPMSTimeTicks
starIPMSComponentName
starIPMSTaskInfo
starIPMSProcessMaxRestartCnt
starIPMSProcessRestartWaitTime
starIPMSPacketLossCnt
starIPMSTotalPacketLossCnt
starIPMSDPIFailureReason
starIPMSDPIDetails
starIPMSEventSource
starIPMSAttribute
starIPMSResourceType
starIPMSResourceInfoState
starIPMSResourceCurrentValue
starIPMSResourceConfThreshold
starIPMSPeerName
starIPMSPeerIP
starIPMSPeerPort
starIPMSICMPState
starIPMSCORBAState

Object
starIPMSNotifGroup

Object ID
teleplm.8164.102.3.2.2

Description
This group is a collection of notifications for IPMS management.

Objects
starIPMSComponentStart
starIPMSComponentStop
starIPMSProcessStart
starIPMSProcessStartFail
starIPMSPacketLossThreshold
starIPMSDPIDFail
starIPMSThresholdExceed
starIPMSThresholdClear
starIPMSPeerStateChange
Chapter 5
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 3. LESS Application MIB Tree
MIB Textual Conventions

This section defines the objects, traps and conformance 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

Object ID
enterprise.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

Object ID
enterprise.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

Object ID
enterprise.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

Object ID
enterprise.8164.101.1.13
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 Notifye

Object
starLESSPath

Object ID
enterprise.8164.101.1.16

Description
L-ESS Application source/destination path.
Syntax
DisplayString(SIZE(1..255))

Access
Accessible for Notify

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
  starLESSNotifInfo

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
time.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
time.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
time.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
time.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
starLESSStartofMissedRange
starLESSEndofMissedRange
starLESSNotifInfo

Object
starLESSRemoteConnectionFail

Object ID
time.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.
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

Object
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
starLESSRemoteHostName
starLESSFileType

Object
starLESSNotifRaisedTime
starLESSNodeName
starLESSInstance
starLESSApplicationType
starLESSRemoteHostName
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

Object
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 `starLESSThreshPendingFiles` notification will be generated by pull or push process when the total number of files pending for transfer in source directory falls below configured threshold.

Objects

- `starLESSNotifRaisedTime`
- `starLESSNodeName`
- `starLESSInstance`
- `starLESSApplicationType`
- `starLESSSTXName`
- `starLESSFileType`
- `starLESSThreshMeasuredInt`
- `starLESSThreshInt`

Object
- `starLESSNewHostFound`

Object ID
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
    starGenericLESThreshDiskUsage

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`
- `starLESSTXName`
- `starLESSPath`
- `starLESSThreshMeasuredInt`
- `starLESSThreshInt`
Object

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

Object

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

Object

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
time.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.starLESMIBCompliances(2)`

<table>
<thead>
<tr>
<th><strong>Object</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>starLESMIBCompliances</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Object ID</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>enterprise.8164.101.3.2.1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>The compliance statements for entities which implement the STARENT LESS MIB.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Mandatory Groups</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>starLESSNotifMgmtGroup</td>
</tr>
<tr>
<td>starLESSNotifGroup</td>
</tr>
</tbody>
</table>
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.
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 1. Core Platforms Chassis 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>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>starNPUARPPoolExhausted</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>
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<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>
<td>enterprise.8164.2.39</td>
<td>Major</td>
<td>enterprise.8164.2.40</td>
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<tr>
<td>starAAAAuthServerReachable</td>
<td>enterprise.8164.2.40</td>
<td>Informational</td>
<td>N/A</td>
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<tr>
<td>starAAAAuthServerMisconfigured</td>
<td>enterprise.8164.2.41</td>
<td>Major</td>
<td>enterprise.8164.2.40</td>
</tr>
<tr>
<td>starAAAAccServerUnreachable</td>
<td>enterprise.8164.2.42</td>
<td>Major</td>
<td>enterprise.8164.2.43</td>
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<tr>
<td>starAAAAccServerReachable</td>
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<tr>
<td>starAAAAccServerMisconfigured</td>
<td>enterprise.8164.2.44</td>
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</tr>
<tr>
<td>starLogMsg</td>
<td>enterprise.8164.2.45</td>
<td>Minor</td>
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<tr>
<td>starPDSNServiceStart</td>
<td>enterprise.8164.2.46</td>
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<tr>
<td>starPDSNServiceStop</td>
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<td>Major</td>
<td>enterprise.8164.2.46</td>
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<tr>
<td>starHAServiceStart</td>
<td>enterprise.8164.2.48</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starHAServiceStop</td>
<td>enterprise.8164.2.49</td>
<td>Major</td>
<td>enterprise.8164.2.48</td>
</tr>
<tr>
<td>starFAServiceStart</td>
<td>enterprise.8164.2.50</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starFAServiceStop</td>
<td>enterprise.8164.2.51</td>
<td>Major</td>
<td>enterprise.8164.2.50</td>
</tr>
<tr>
<td>starCLISessionStart</td>
<td>enterprise.8164.2.52</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCLISessionEnd</td>
<td>enterprise.8164.2.53</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCritTaskFailed</td>
<td>enterprise.8164.2.54</td>
<td>Critical</td>
<td>enterprise.8164.2.5</td>
</tr>
<tr>
<td>starCardActive</td>
<td>enterprise.8164.2.55</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starLACServiceStart</td>
<td>enterprise.8164.2.56</td>
<td>Informational</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>
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<tr>
<td>starLACServiceStop</td>
<td>enterprise.8164.2.57</td>
<td>Major</td>
<td>enterprise.8164.2.56</td>
</tr>
<tr>
<td>starLNSServiceStart</td>
<td>enterprise.8164.2.58</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starLNSServiceStop</td>
<td>enterprise.8164.2.59</td>
<td>Major</td>
<td>enterprise.8164.2.58</td>
</tr>
<tr>
<td>starCardDown</td>
<td>enterprise.8164.2.60</td>
<td>Critical</td>
<td>enterprise.8164.2.5</td>
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<tr>
<td>dsx3LineStatusChange</td>
<td>enterprise.8164.2.61</td>
<td>Warning</td>
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<tr>
<td>dsx1LineStatusChange</td>
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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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## 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>
<th>Trap ID String</th>
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<th>Informational Trap ID String</th>
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<td>N/A</td>
</tr>
<tr>
<td>starCfReClearThreshDiskUtilization</td>
<td>enterprise.8164.100.3.2.7</td>
<td>Major</td>
<td>enterprise.8164.100.3.2.8</td>
</tr>
<tr>
<td>starCfDbThreshCPUUtilization</td>
<td>enterprise.8164.100.3.2.8</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfDbClearThreshCPUUtilization</td>
<td>enterprise.8164.100.3.2.9</td>
<td>Major</td>
<td>enterprise.8164.100.3.2.10</td>
</tr>
<tr>
<td>starCfDbThreshDiskUtilization</td>
<td>enterprise.8164.100.3.2.10</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfDbClearThreshDiskUtilization</td>
<td>enterprise.8164.100.3.2.11</td>
<td>Major</td>
<td>enterprise.8164.100.3.2.12</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 4. LESS 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>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>starLESThreshDiskUsage</td>
<td>enterprise.8164.1.101.2.6</td>
<td>Critical</td>
<td>enterprise.8164.1.101.2.7</td>
</tr>
<tr>
<td>starLESThreshClearDiskUsage</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>starLESThreshPendingFiles</td>
<td>enterprise.8164.1.101.2.13</td>
<td>Warning</td>
<td>enterprise.8164.1.101.2.14</td>
</tr>
<tr>
<td>starLESThreshClearPendingFiles</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>starGenericLESThreshDiskUsage</td>
<td>enterprise.8164.1.101.2.22</td>
<td>Critical</td>
<td>enterprise.8164.1.101.2.23</td>
</tr>
<tr>
<td>starGenericLESThreshClearDiskUsage</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>
IPMS Default Trap Severities

The following table lists traps supported by the Intelligent Packet Monitoring system (IPMS) and their corresponding default severity level as defined within the IPMS application. 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>
<td>-----------------------------</td>
<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>starMURKPIThreshWarningClear</td>
<td>enterprise.8164.103.2.22</td>
<td>Minor</td>
<td>N/A</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>
<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>
<td>N/A</td>
</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 Severities - 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>
</thead>
<tbody>
<tr>
<td>cPPTWebserverStartNotif</td>
<td>enterprise.9.9.787.0.1</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>cPPTWebserverStopNotif</td>
<td>enterprise.9.9.787.0.2</td>
<td>N/A</td>
<td>enterprise.9.9.787.0.3</td>
</tr>
<tr>
<td>cPPTWebserverRestartedNotif</td>
<td>enterprise.9.9.787.0.3</td>
<td>N/A</td>
<td>enterprise.9.9.787.0.4</td>
</tr>
<tr>
<td>cPPTDatabaseStartNotif</td>
<td>enterprise.9.9.787.0.4</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>cPPTDatabaseStopNotif</td>
<td>enterprise.9.9.787.0.5</td>
<td>N/A</td>
<td>enterprise.9.9.787.0.6</td>
</tr>
<tr>
<td>cPPTDatabaseRestartedNotif</td>
<td>enterprise.9.9.787.0.6</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>cPPTPSMonStartNotif</td>
<td>enterprise.9.9.787.0.7</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>cPPTPSMonStopNotif</td>
<td>enterprise.9.9.787.0.8</td>
<td>N/A</td>
<td>enterprise.9.9.787.0.9</td>
</tr>
<tr>
<td>cPPTPSMonRestartedNotif</td>
<td>enterprise.9.9.787.0.9</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>cPPTCriticalConditionNotif</td>
<td>enterprise.9.9.787.0.10</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>cPPTDBBackupDestinationNotAccessibleNotif</td>
<td>enterprise.9.9.787.0.11</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>cPPTDBBackupNotEnoughDiskSpaceNotif</td>
<td>enterprise.9.9.787.0.12</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>cPPTMonitorServerStartNotif</td>
<td>enterprise.9.9.787.0.13</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>cPPTMonitorServerStopNotif</td>
<td>enterprise.9.9.787.0.14</td>
<td>N/A</td>
<td>enterprise.9.9.787.0.15</td>
</tr>
<tr>
<td>cPPTMonitorServerRestartedNotif</td>
<td>enterprise.9.9.787.0.15</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>cPPTIpcfUnmanageableNotif</td>
<td>enterprise.9.9.787.0.16</td>
<td>N/A</td>
<td>enterprise.9.9.787.0.17</td>
</tr>
<tr>
<td>cPPTIpcfManageableNotif</td>
<td>enterprise.9.9.787.0.17</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>cPPTScsUnmanageableNotif</td>
<td>enterprise.9.9.787.0.18</td>
<td>N/A</td>
<td>enterprise.9.9.787.0.19</td>
</tr>
<tr>
<td>cPPTScsManageableNotif</td>
<td>enterprise.9.9.787.0.19</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>cPPTSchedulerStartNotif</td>
<td>enterprise.9.9.787.0.20</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>cPPTSchedulerStopNotif</td>
<td>enterprise.9.9.787.0.21</td>
<td>N/A</td>
<td>enterprise.9.9.787.0.22</td>
</tr>
<tr>
<td>cPPTSchedulerRestartedNotif</td>
<td>enterprise.9.9.787.0.22</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>cPPTSynchronizationFailedOnIpcfNotif</td>
<td>enterprise.9.9.787.0.23</td>
<td>N/A</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>
<td>------------------------------------</td>
<td>--------------------------</td>
<td>------------------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>cPPPTSynchronizationFailedOnSscNotif</td>
<td>enterprise.9.9.787.0.24</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>cPPPTSynchronizationFailedNotif</td>
<td>enterprise.9.9.787.0.25</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>cPPTPcefUnmanageableNotif</td>
<td>enterprise.9.9.787.0.26</td>
<td>N/A</td>
<td>enterprise.9.9.787.0.27</td>
</tr>
<tr>
<td>cPPTPcefManageableNotif</td>
<td>enterprise.9.9.787.0.27</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>cPPPTSynchronizationFailedOnPcefNotif</td>
<td>enterprise.9.9.787.0.28</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>cPPTClusterFailoverNotif</td>
<td>enterprise.9.9.787.0.29</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</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 9. SSC 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>starSSCEntityStart</td>
<td>enterprise.8164.201.2.1</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<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>
<td>N/A</td>
</tr>
<tr>
<td>starSSCFTPServerUnreachable</td>
<td>enterprise.8164.201.2.6</td>
<td>Major</td>
<td>enterprise.8164.201.2.7</td>
</tr>
<tr>
<td>starSSCFTPServerReachable</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>
<td>N/A</td>
</tr>
<tr>
<td>starSSCShCtrlPeerDown</td>
<td>enterprise.8164.201.2.9</td>
<td>Major</td>
<td>enterprise.8164.201.2.8</td>
</tr>
<tr>
<td>starSSCEnCtrlPeerUp</td>
<td>enterprise.8164.201.2.10</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starSSCEnCtrlPeerDown</td>
<td>enterprise.8164.201.2.11</td>
<td>Major</td>
<td>enterprise.8164.201.2.10</td>
</tr>
<tr>
<td>starSSCSysMgrFailover</td>
<td>enterprise.8164.201.2.12</td>
<td>Major</td>
<td>N/A</td>
</tr>
<tr>
<td>starSSCCpuThresholdCrossed</td>
<td>enterprise.8164.201.2.13</td>
<td>Major</td>
<td>enterprise.8164.201.2.14</td>
</tr>
<tr>
<td>starSSCCpuThresholdCleared</td>
<td>enterprise.8164.201.2.14</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starSSCSwapThresholdCrossed</td>
<td>enterprise.8164.201.2.15</td>
<td>Major</td>
<td>enterprise.8164.201.2.16</td>
</tr>
<tr>
<td>starSSCSwapThresholdCleared</td>
<td>enterprise.8164.201.2.16</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starSSCEnMgrConnFailed</td>
<td>enterprise.8164.201.2.17</td>
<td>Major</td>
<td>enterprise.8164.201.2.18</td>
</tr>
<tr>
<td>starSSCEnMgrConnEstablished</td>
<td>enterprise.8164.201.2.18</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starSSCProcTheshCrossed</td>
<td>enterprise.8164.201.2.19</td>
<td>Major</td>
<td>enterprise.8164.201.2.20</td>
</tr>
<tr>
<td>starSSCProcTheshCleared</td>
<td>enterprise.8164.201.2.20</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starSSCMaxShSessionsCrossed</td>
<td>enterprise.8164.201.2.21</td>
<td>Major</td>
<td>enterprise.8164.201.2.22</td>
</tr>
<tr>
<td>starSSCMaxShSessionsCleared</td>
<td>enterprise.8164.201.2.22</td>
<td>Informational</td>
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</tr>
<tr>
<td>starSSCMaxPendReqAppMgrCrossed</td>
<td>enterprise.8164.201.2.23</td>
<td>Major</td>
<td>enterprise.8164.201.2.24</td>
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<tr>
<td>starSSCMaxPendReqAppMgrCleared</td>
<td>enterprise.8164.201.2.24</td>
<td>Informational</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>
<td>----------------------------------</td>
<td>------------------------------</td>
<td>------------------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>starSSCMaxPendReqAppMgrSysCrossed</td>
<td>enterprise.8164.201.2.25</td>
<td>Major</td>
<td>enterprise.8164.201.2.26</td>
</tr>
<tr>
<td>starSSCMaxPendReqAppMgrSysCleared</td>
<td>enterprise.8164.201.2.26</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starSSCPrDown</td>
<td>enterprise.8164.201.2.27</td>
<td>Major</td>
<td>enterprise.8164.201.2.28</td>
</tr>
<tr>
<td>starSSCPrUp</td>
<td>enterprise.8164.201.2.28</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starSSCSprCacheDown</td>
<td>enterprise.8164.201.2.29</td>
<td>Major</td>
<td>enterprise.8164.201.2.30</td>
</tr>
<tr>
<td>starSSCSprCacheUp</td>
<td>enterprise.8164.201.2.30</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starSSCLdapInitFailed</td>
<td>enterprise.8164.201.2.31</td>
<td>Major</td>
<td>enterprise.8164.201.2.32</td>
</tr>
<tr>
<td>starSSCLdapInitSuccess</td>
<td>enterprise.8164.201.2.32</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starSSCProfileConThreshCrossed</td>
<td>enterprise.8164.201.2.33</td>
<td>Major</td>
<td>enterprise.8164.201.2.34</td>
</tr>
<tr>
<td>starSSCProfileConThreshCleared</td>
<td>enterprise.8164.201.2.34</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starSSCGeoFailoverStarted</td>
<td>enterprise.8164.201.2.35</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>starSSCGeoFailoverCompleted</td>
<td>enterprise.8164.201.2.36</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
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<td>enterprise.8164.201.2.37</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>starSSCRoleChangeFailed</td>
<td>enterprise.8164.201.2.38</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>starSSCDBConnectionFailed</td>
<td>enterprise.8164.201.2.39</td>
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<td>enterprise.8164.201.2.40</td>
</tr>
<tr>
<td>starSSCDBConnectionRestored</td>
<td>enterprise.8164.201.2.40</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>starSSCDBConnRetryExhausted</td>
<td>enterprise.8164.201.2.41</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>starSSCStopObserverFailed</td>
<td>enterprise.8164.201.2.42</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>starSSCStartObserverFailed</td>
<td>enterprise.8164.201.2.43</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>starSSCSscpFSFOFailed</td>
<td>enterprise.8164.201.2.44</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>starSSCCacheCleanupFailed</td>
<td>enterprise.8164.201.2.45</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>starSSCDetDBRoleFailed</td>
<td>enterprise.8164.201.2.46</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>starSSCDataGuardBrokerDown</td>
<td>enterprise.8164.201.2.47</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>starSSCStartListenerFailed</td>
<td>enterprise.8164.201.2.48</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>starSSCMonitoringT10Failed</td>
<td>enterprise.8164.201.2.49</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:

```
[local]asr5000(config)# system sysoid-style new|default
```

**Important:** ASR 5500 users do not have this option as the Cisco OId String is the default.

**Important:** This command can be combined with `sysdesc` 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.

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-EXT-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-IF-EXTENSION-MIB
- CISCO-IP-LOCAL-POOL-MIB
- CISCO-IPSEC-FLOW-MONITOR-MIB
- CISCO-MOBILE-WIRELESS-SERVICE-MIB
- CISCO-PROCESS_MIB