SNMP MIB Reference, StarOS Release 17
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SNMP MIB Reference, StarOS Release 17

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Starent Chassis Conformances

IPMS Application MIB

LESS Application MIB

SNMP MIB Reference, StarOS Release 17
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>🔄</td>
<td>Information Note</td>
<td>Provides information about important features or instructions.</td>
</tr>
<tr>
<td>🚨</td>
<td>Caution</td>
<td>Alerts you of potential damage to a program, device, or system.</td>
</tr>
<tr>
<td>⚠</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>

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

startentMIB(8.154)

startentMIBObjects(1)  startentMIBTraps(2)  startentMIBCompliance(3)

startentChassis(1)  startentSlots(2)  startentSlotMapping(3)  startentFons(4)  startentMBGroups(1)  startentMIBCompliance(2)

startentLog(5)  startentAlertMon(8)  startentPower(9)  startentCPU(10)  startentIPUmgr(11)  startentSessionP(12)

startentFeedback(1)  startentPooledLog(2)  startentSessionMgr(13)  startentAAAMgr(14)  startentA11Mgr(15)  startentHAMgr(16)

startentFAMgr(17)  startentServiceMgr(18)  startentCLIMgr(19)  startentTaskMgr(20)  startentPPP(21)  startentMPHA(22)

startentMIPFA(23)  startentREP(24)  startentSubscriber(26)  startentEISServer(27)  startentThresholds(28)  startentPort(29)

startentPPool(30)  startentTrapData(31)  startentGGSNService(32)  startentL2TP(33)  starSessSub1(34)  startentWReachServer(35)

startentPSCE(36)  startentISIPRoute(37)  startentRPServOption(38)  startentCFStats(39)  startentISIPRouteServer(40)  startentVIMService(41)

startentGSS(42)  startentPDIFSys(43)  startentPDIFService(44)  startentGGSNService(45)  startentSSTPD(46)  startentScopNW(47)

startentSGTPService(48)  startentPMSServer(49)  startentCert(50)  startenCert(51)  startenTFServ(52)  startenCSOFPeerServer(53)

startentSDH(54)  startentSDHPath(55)  startentE1trib(56)  startentGPRSLink(57)  starFracE1trib(58)  startenStorage(59)

startenFNGSys(60)  startenFNGService(61)  startenPDGSys(62)  startenPDGService(63)  startenPPoolGroup(64)  startenHNBGWService(65)

startenALCAPService(66)  startenMMES1Assoc(67)  startenMMES1Path(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

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

Integer {
    none(1)
    unknown(2)
    spc(3)
    pac(4)
spio(5)
rcc(6)
lceth(7)
lcgeth(8)
lcds3
tac(10)
lcoc3(11)
lcoc12(12)
smc(13)
psc(14)
lcqgeth(15)
letgeth(16)
vmc(17)
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
fantrl6(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
miodec(40) -- MIO Daughter Card
fsc(41) -- Fabric Card
| dpc(42) -- Data Processing Card |
| mdpc(43) -- M Data Processing Card |
| dpcdc(44) -- DPC Daughter Card |
| ssc(45) -- System Status Card |
| voc(46) -- Virtual Card |
| cfc(47) -- Control Function Virtual Card |
| sfc1p(48) -- 1-Port Service Function Virtual Card |
| sfc2p(49) -- 2-Port Service Function Virtual Card |
| sfc3p(50) -- 3-Port Service Function Virtual Card |
| sfc4p(51) -- 4-Port Service Function Virtual Card |

### Object

**StarentVersionNum**

<table>
<thead>
<tr>
<th>Object ID</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Contains the system version identification string.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Octet String (0..256)</td>
</tr>
</tbody>
</table>

### Object

**StarRelayState**

<table>
<thead>
<tr>
<th>Object ID</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The state of a Central Office (CO) relay.</td>
</tr>
</tbody>
</table>
| 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))

**Description**

An eNodeB identifier in the form aaa:bbb:ccccccc

### Syntax

OCTET STRING (SIZE (1..16))

**Description**

Traffic Policing Action

**Syntax**

INTEGER

**Enumeration**

- unknown(0)
- notapplicable(1)
- transmit(2)
- drop(3)
- loweripprecedence(4)

### Syntax

INTEGER

**Enumeration**

- unknown(0),
down(1),
attempt(2),
init(3),
twoway(4),
exstart(5),
exchange(6),
loading(7),
full(8)

**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
starChassisAudibleAlarm

Object ID
enterprise.8164.1.1.7

Description
The current state of the chassis Audible Alarm.

Syntax
StarRelayState

Access
Read-only

Object
starChassisUTCTime

Object ID
enterprise.8164.1.1.8

Description
The current time on the chassis, in UTC format

Syntax
DateAndTime

Access
Read-only

Object
starChassisLocalTime

Object ID
enterprise.8164.1.1.9

Description
The current time on the chassis, converted to the local time zone.

Syntax
DateAndTime

Access
Read-only

Object
starChassisType

Object ID
enterprise.8164.1.1.10
Description
The physical chassis type

Syntax
Integer

Access
Read-only

Enumeration
unknown(0)
ST16(1)
ST40(2)
SSI(3)
st20(4)
asr5000(5)
asr5500(6)
ssi(7)
ssi-kvm-guest(8)
ssi-kvm-vsm-guest(9)
qvpc-di(10)

Object
starChassisDescription

Object ID
tEnterprise.8164.1.1.11

Description
Chassis description.

Syntax
DisplayString

Access
Read-Only

Object
starChassisSWRevision

Object ID
tEnterprise.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
starSlotVoltage1 dot5
starSlotVoltage1 dot5LowThresh
starSlotVoltage1 dot5HighThresh
starSlotVoltage1 dot8
starSlotVoltage1dot8LowThresh
starSlotVoltage1dot8HighThresh
starSlotVoltage2dot5
starSlotVoltage2dot5LowThresh
starSlotVoltage2dot5HighThresh
starSlotVoltage3dot3
starSlotVoltage3dot3LowThresh
starSlotVoltage3dot3HighThresh
starSlotVoltage5dot0
starSlotVoltage5dot0LowThresh
starSlotNumPorts
starSlotAction
starSlotVoltageState
starSlotNumCPU
starSlotPartNumber
starSlotPartRevision
starSlotSerialNumber
starSlotCLEICode
starSlotCiscoModelName
starSlotCiscoHardwareRev
starSlotCiscoSerialNumber

**Object**

starSlotNum

**Object ID**

enterprise.8164.1.2.1.1.1

**Description**

The slot number.

**Syntax**

Integer32(1.48)

**Access**

accessible-for-notify

---

**Object**

starSlotType

**Object ID**

enterprise.8164.1.2.1.1.2
Description
The type of the slot.

Syntax
StarentSlotType

Access
Read-only

Object
starCardType

Object ID
enterprise.8164.1.2.1.1.3

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

Syntax
StarentCardType

Access
Read-only

Object
starCardOperState

Object ID
enterprise.8164.1.2.1.1.4

Description
The current operational state of the card.

Syntax
Integer

Access
Read-only

Enumeration
unknown(1)
empty(2)
offline(3)
booting(4)
ready(5)
standby(6)
active(7)
migratefrom(8)
migrateto(9)
starting(10)
initializing(11)
secondary(12)

Object
starCardAdminState

Object ID
enterprise.8164.1.2.1.1.5

Description
The current administrative state of the card.

Syntax
Integer

Access
Read-only

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

Object
starCardRevision

Object ID
enterprise.8164.1.2.1.1.6

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

Syntax
StarentVersionNum

Access
Read-only

Object
starCardLastStateChange

Object ID
enterprise.8164.1.2.1.1.7
Description
The time when the last state change occurred for this row. A manager could poll this variable to determine if information has changed.

Syntax
DateAndTime

Access
Read-only

Object
starCardMode

Object ID
enterprise.8164.1.2.1.1.8

Description
The desired mode of the card. This field is applicable only to slots which can contain packet processing cards.

**Important:** The active(4) value is obsolete and has been replaces with activepac(5) and activetac(6).

Syntax
Integer {
unknown(1)
notapplicable(2)
standby(3)
active(4)
activepac(5)
activetac(6)
activepsc(7)
activvevpc(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.
## Starent Chassis Objects

### MIB Textual Conventions

#### 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.

#### Syntax

Integer

#### Access

Read-only

#### Enumeration

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

#### Object

starCardLock

#### Object ID

enterprise.8164.1.2.1.1.11

#### Description

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

#### Syntax

Integer

#### Access

Read-only

#### Enumeration

- unknown(1)
locked(2)
unlocked(3)

Object
starCardRebootPending

Object ID
enterprise.8164.1.2.1.1.12

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

Syntax
Integer

Access
Read-only

Enumeration
no(1)
yes(2)

Object
starCardUsable

Object ID
enterprise.8164.1.2.1.1.13

Description
Indicates if the card is currently usable.

Syntax
Integer

Access
Read-only

Enumeration
no(1)
yes(2)

Object
starCardSinglePOF

Object ID
enterprise.8164.1.2.1.1.14
Description
Identifies if this card represents a single point of failure (SPOF). A value of no(1) indicates that this card is supported by a redundant card which can take over in the event of a failure. A value of yes(2) indicates that this card does not have a redundant partner, and that a failure of this card could result in service interruption.

Syntax
Integer

Access
Read-only

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

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
starCardTemperature

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
starSlotVoltage1dot5

Object ID
enterprise.8164.1.2.1.1.20

Description
The current voltage, in millivolts, of the nominal 1.5V power supply. The working range for this card is the range defined by variables starSlotVoltage1dot5LowThresh and starSlotVoltage1dot5HighThresh. A value of 0 indicates that the voltage cannot be read, or that the card is not present.

Syntax
Gauge32

Access
Read-only

Object
starSlotVoltage1dot5LowThresh

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

Object ID
enterprise.8164.1.2.1.1.21

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

Syntax
Gauge32

Access
Read-only

Object
starSlotVoltage1dot5HighThresh

Important: This alarm is obsolete. System uses starSlotVoltageState alarm for this notification.
Object ID
enterprise.8164.1.2.1.1.22

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

Syntax
Gauge32

Access
Read-only

Object
starSlotVoltage1dot8

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

Object ID
enterprise.8164.1.2.1.1.23

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

Syntax
Gauge32

Access
Read-only

Object
starSlotVoltage1dot8LowThresh

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

Object ID
enterprise.8164.1.2.1.1.24

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

Syntax
Gauge32
**Access**
Read-only

**Object**
starSlotVoltage1dot8HighThresh

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

**Object ID**
enterprise.8164.1.2.1.1.25

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

**Syntax**
Gauge32

**Access**
Read-only

**Object**
starSlotVoltage2dot5

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

**Object ID**
enterprise.8164.1.2.1.1.26

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

**Syntax**
Gauge32

**Access**
Read-only

**Object**
starSlotVoltage2dot5LowThresh

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

**Object ID**
enterprise.8164.1.2.1.1.27
Description
The voltage level, in millivolts, which is the lowest allowable value for the nominal 2.5V power supply. A value of 0 indicates that there is no card present.

Syntax
Gauge32

Access
Read-only

Object
starSlotVoltage2dot5HighThresh

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

Object ID
enterprise.8164.1.2.1.1.28

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

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.8164.1.2.1.33

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.8164.1.2.1.34

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
cstarSlotCiscoSerialNumber

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
cstarSlotMappingTable

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
teleRouterLib.8164.1.3.1.1

Description
Information about a particular slot mapping.

Syntax
StarSlotMappingEntry

Access
not-accessible

Sequence
starSlotMappingNum Index
starSlotMappingType
starSlotMappingRCCNum
starSlotMappingToSlot

Object
starSlotMappingNum

Object ID
teleRouterLib.8164.1.3.1.1.1

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

Syntax
Integer32(17..48)

Access
not-accessible

Object
starSlotMappingType

Object ID
teleRouterLib.8164.1.3.1.1.2

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

Access
Read-only

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

Object
starSlotMappingRCCNum

Object ID
enterprise.8164.1.3.1.1.3

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

Syntax
Integer32(0..2)

Access
Read-only

Object
starSlotMappingToSlot

Object ID
enterprise.8164.1.3.1.1.4

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

Syntax
Integer32(1..16)

Access
Read-only

enterprise.8164.1.starentFans(4)

Object
starFanTable

Object ID
enterprise.8164.1.4.1

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

Syntax
Sequence of StarFanEntry

Access
not-accessible

Object
starFanEntry

Object ID
enterprise.8164.1.4.1.1

Description
Information about a particular fan controller.

Syntax
StarFanEntry

Access
not-accessible

Sequence
starFanNum Index
starFanLocation
starFanStatus
starFanSpeed

Object
starFanNum

Object ID
enterprise.8164.1.4.1.1.1

Description
The fan controller number.

Syntax
Integer32(1..4)

Access
accessible-for-notify
Object
   starFanLocation

Object ID
   enterprise.8164.1.4.1.1.2

Description
   The physical location of the fan controller.

Syntax
   Integer

Access
   Read-only

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

Object
   starFanStatus

Object ID
   enterprise.8164.1.4.1.1.3

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

Syntax
   Integer32

Access
   Read-only

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

Object
starFanSpeed

Object ID
enterprise.8164.1.4.1.1.4

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

Syntax
Integer

Access
Read-only

Enumeration
unknown(1)
speed50(2)
speed55(3)
speed60(4)
speed65(5)
speed70(6)
speed75(7)
speed80(8)
speed85(9)
speed90(10)
speed95(11)
speed100(12)

enterprise.8164.1.starentLogs(5)

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

Object
starLogTable
Object ID
enterprise.8164.1.5.1

Description
A table containing information about all of the system logs.

Syntax
Sequence of StarLogEntry

Access
not-accessible

Object
starLogEntry

Object ID
enterprise.8164.1.5.1.1

Description
Information about a particular system log.

Syntax
StarLogEntry

Access
not-accessible

Sequence
starLogName StarShortName
starLogCurSize
starLogMaxSize
starLogText

Object
starLogName

Object ID
enterprise.8164.1.5.1.1.1

Description
The name of the system log.

Syntax
StarShortName

Access
accessible-for-notify

Object
starLogCurSize

Object ID
enterprise.8164.1.5.1.1.2

Description
The size, in bytes, of this log.

Syntax
Gauge32

Access
Read-only

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.8164.9.1

Description
A table containing information about all power filters.

Syntax
Sequence of StarPowerEntry

Access
not-accessible

Object
starPowerEntry

Object ID
enterprise.8164.9.1.1

Description
Information about a particular power filter.

Syntax
StarPowerEntry

Access
not-accessible

Sequence
starPowerNumber Index
starPowerState

Object
starPowerNumber

Object ID
enterprise.8164.9.1.1.1
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Description
The identifying number for this power filter.

Syntax
Integer

Access
accessible-for-notify

Enumeration
powerA(1)
powerB(2)

Object
starPowerState

Object ID
enterprise.8164.1.9.1.1.2

Description
The state of the power filter. The value active(1) means that the power filter is present and operational. The value failed(2) means that the power filter is present, but not operational. The value not-present(3) means that the power filter is not physically present in the system.

Syntax
Integer

Access
Read-only

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

enterprise.8164.1.starentCPU(10)

Object
starCPUTable

Object ID
enterprise.8164.1.10.1

Description
A table containing information about all CPUs

Syntax
Sequence of StarCPUEntry
Access
not-accessible

Object
starCPUEntry

Object ID
enterprise.8164.1.10.1.1

Description
Information about a particular CPU.

Syntax
StarCPUEntry

Access
not-accessible

Sequence
starCPUSlot Integer32
starCPUNumber Integer32
starCPUUser Gauge32
starCPUSystem Gauge32
starCPUIdle Gauge32
starCPUIO Gauge32
starCPURQ Gauge32
starCPULoad1Min Gauge32
starCPULoad5Min Gauge32
starCPULoad15Min Gauge32
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
### 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

### 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

### starCPUNumProcesses

**Object ID**
enterprise.8164.1.10.1.1.16

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

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

**Access**
Read-only

### starCPUMemCached

**Object ID**
enterprise.8164.1.10.1.1.17
Description
The total amount of memory consumed by the (reusable) memory cache on this CPU, in kilobytes.

Syntax
Gauge32 (1..2147483647)

Access
Read-only

enterprise.8164.1.starentNPUMgr(11)

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

Object
starNPUMgrTable

Object ID
enterprise.8164.1.11.1

Description
A table containing information about all NPU Managers.

Syntax
Sequence of StarNPUMgrEntry

Access
not-accessible

Object
starNPUMgrEntry

Object ID
enterprise.8164.1.11.1.1

Description
Information about a particular NPU Manager.

Syntax
StarNPUMgrEntry

Access
not-accessible

Sequence
starNPUMgrNumber

Object
starNPUMgrNumber
Object ID
enterprise.8164.1.11.1.1

Description
The identity of this NPU.

Syntax
Integer32(1..65535)

Access
accessible-for-notify

enterprise.8164.1.starentSessInP(12)

Object
starSessInProgCalls

Object ID
enterprise.8164.1.12.1

Description
The number of sessions currently in progress.

Syntax
Gauge32

Access
Read-only

Object
starSessInProgActiveCalls

Object ID
enterprise.8164.1.12.2

Description
The number of sessions with active calls.

Syntax
Gauge32

Access
Read-only

Object
starSessInProgDormantCalls

Object ID
enterprise.8164.1.12.3
Description
The number of sessions associated with dormant calls.

Syntax
Gauge32

Access
Read-only

Object
starSessInProgArrived

Object ID
enterprise.8164.1.12.4

Description
The number of sessions in the arrived state.

Syntax
Gauge32

Access
Read-only

Object
starSessInProgLCPNeg

Object ID
enterprise.8164.1.12.5

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

Syntax
Gauge32

Access
Read-only

Object
starSessInProgLCPUp

Object ID
enterprise.8164.1.12.6

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

Syntax
Gauge32
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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.
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

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
starSessTtlIPCUp
Object ID
time.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
time.8164.1.13.9

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

Syntax
Gauge32

Access
Read-only

Object
starSessTtlKeepFail

Object ID
time.8164.1.13.10

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

Syntax
Gauge32

Access
Read-only

Object
starSessTtlOctForwarded

Important: Status of this object is obsolete. System uses starSessTtlOctForwardedRev1 object for this notification.
Object ID
enterprise.8164.1.13.11

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

Syntax
Counter32

Units
Megabytes

Access
Read-only

Object
starSessTtlOctForwardedRev1

Object ID
enterprise.8164.1.13.11

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

Syntax
Counter64

Units
Megabytes

Access
Read-only

Object
starSessTtlRPRegAccept

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
starSessTtlTxBytes

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

Units
Megabytes

Access
Read-only

Object
starSessTtlMIPRxBytes

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

Object ID
enterprise.8164.1.13.20
Description
The total number of bytes received by mobiles using MIP

Syntax
Counter32

Units
Megabytes

Access
Read-only

Object
starSessTtlMIPRxBYtesRev1

Object ID
enterprise.8164.1.13.20

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

Syntax
Counter64

Units
Megabytes

Access
Read-only

Object
starSessTtlOctForwardedGB

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

Object ID
enterprise.8164.1.13.21

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

Syntax
Counter32

Units
Gigabytes
Access

read-only

Object

starSessTtlOctForwardedGBRev1

Object ID

enterprise.8164.1.13.21

Description

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

Syntax

Counter64

Units

Gigabytes

Access

read-only

enterprise.8164.1.starentAAAMgr(14)

Object

starAAAMgrCount

Object ID

enterprise.8164.1.14.1

Description

The total number of AAA manager instances.

Syntax

Gauge32

Access

Read-only

Object

starAAATtlRequests

Object ID

enterprise.8164.1.14.2

Description

The total number of AAA requests.
Object: starAAATtlAuthRequests

Object ID: enterprise.8164.1.14.3

Description: The total number of AAA authentication requests.

Object: starAAATtlAcctRequests

Object ID: enterprise.8164.1.14.4

Description: The total number of AAA accounting requests.

Object: starAAACurRequests

Object ID: enterprise.8164.1.14.5

Description: The current number of AAA requests.
### 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
tagoon.8164.1.14.10

Description
The total number of AAA authentication successes.

Syntax
Gauge32

Access
Read-only

Object
starAAATtlAuthFailure

Object ID
tagoon.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
tagoon.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

Object
starA11TtlDemultiplexed

Object ID
enterprise.8164.1.15.4

Description
The total number of demultiplexed A11 sessions.
### starA11TtlDereg

**Object ID**  
enterprise.8164.1.15.5

**Description**  
The total number of A11 deregistrations.

**Syntax**  
Counter32

**Access**  
Read-only

### starA11CurActive

**Object ID**  
enterprise.8164.1.15.6

**Description**  
The current number of active A11 sessions.

**Syntax**  
Gauge32

**Access**  
Read-only

### enterprise.8164.1.starentHAMgr(16)

**Object**  
starHAMgrCount

**Object ID**  
enterprise.8164.1.16.1

**Description**  
The total number of home agent manager instances.

**Syntax**  
Gauge32

**Access**  
Read-only
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
Starent Chassis Objects

Description
The total number of home agent deregistrations.

Syntax
Counter32

Access
Read-only

Object
starHACurActive

Object ID
enterprise.8164.1.16.6

Description
The current number of active home agent sessions.

Syntax
Gauge32

Access
Read-only

enterprise.8164.1.starentFAMgr(17)

Object
starFAMgrCount

Object ID
enterprise.8164.1.17.1

Description
The total number of foreign agent manager instances.

Syntax
Gauge32

Access
Read-only

Object
starFATtlArrived

Object ID
enterprise.8164.1.17.2

Description
The total number of foreign agent session requests.
Syntax
Counter32

Access
Read-only

Object
starFATtlRejected

Object ID
terprise.8164.1.17.3

Description
The total number of rejected foreign agent sessions.

Syntax
Counter32

Access
Read-only

Object
starFATtlDemultiplexed

Object ID
terprise.8164.1.17.4

Description
The total number of demultiplexed foreign agent sessions.

Syntax
Counter32

Access
Read-only

Object
starFATtlDereg

Object ID
terprise.8164.1.17.5

Description
The total number of foreign agent deregistrations.
Object
starFACurActive

Object ID
enterprise.8164.1.17.6

Description
The current number of active foreign agent sessions.

Syntax
Gauge32

Access
Read-only

enterprise.8164.1.starentService(18)

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

Object
starServiceTable

Object ID
enterprise.8164.1.18.1

Description
A table containing information about all of the service managers.

Syntax
Sequence of StarSvcEntry

Access
not-accessible

Object
starServiceEntry

Object ID
enterprise.8164.1.18.1.1

Description
Information about a particular service manager.

Syntax
StarSvcEntry

Access
not-accessible
**Sequence**

<table>
<thead>
<tr>
<th>Object</th>
<th>Description</th>
<th>Syntax</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>starServiceVpnID</td>
<td>The internal identification of the VPN (context).</td>
<td>Gauge32</td>
<td>not-accessible</td>
</tr>
<tr>
<td>starServiceSvcID</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>starServiceVpnName</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>starServiceServName</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>starServiceSubLimit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>starServiceSubCurrent</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>starServiceType</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>starServiceFAIpAddr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>starServiceHAIpAddr</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Object ID**

| Object ID               | enterprise.8164.1.18.1.1.1                        |

**Description**

The internal identification of the VPN (context).

**Syntax**

Gauge32

**Access**

not-accessible

---

**Object**

starServiceVpnId

**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)
fat(5)
l2tpserver(6)
lac(7)
lns(8)
closedrp(9)
ecs(10)
cscf(11)
ips(12)
evdoreva(13)
pdif(15)
aspnc(16)
mipv6ha(17)
phsgw(18)
phspc(19)
sgw(20)
pgw(21)
mag(22)
gprs(23)
hsgw(24)
sgsn(25)
mme(26)
pgd(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)
epgd(37)
pep(38)
henbgw-access(39)
henbgw-network(40)
wsg(41)
samog(42)
saegw(43)
ppp_lback(44)
dhcp(45)
imsa(46)
diameter(47)
dhcv6(48)
lma(49)
crdt-ctl(50)
mme-hss(51)
sgs(52)
cbs(53)
egtp-ingress(54)
egtp-egress(55)
egtp(56)
gtpu(57)
sgpce(58)
egtp-sv(59)
megad(60)
pcc(61)
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 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.

Object
starCLITable
Object ID  
enterprise.8164.1.19.1

Description  
A table containing information about all interactive CLI sessions.

Syntax  
Sequence of StarCLIEntry

Access  
not-accessible

Object  
starCLIEntry

Object ID  
enterprise.8164.1.19.1.1

Description  
Information about a particular CLI session.

Syntax  
StarSvcEntry

Access  
not-accessible

Sequence  
starCLIID  
starCLIUsername  
starCLITytname  
starCLIPrivs  
starCLIType  
starCLIRemoteIpAddr  
starCLIContext  
starCLIDatabaseUsername  
starCLIRemoteIpAddrType

Object  
starCLIID

Object ID  
enterprise.8164.1.19.1.1.1

Description  
The internal identify of the CLI session.
Syntax
Gauge32

Access
not-accessible

Object
starCLIUsername

Object ID
tenprise.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
starCLIUsername

Object ID
tenprise.8164.1.19.1.1.3

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

Syntax
DisplayString

Access
Read-only

Object
starCLIUsername

Object ID
tenprise.8164.1.19.1.1.4

Description
The CLI session privilege level.

Syntax
DisplayString

Access
Read-only
Object

**starC**

**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

**starCLIRemoteIpAddrType**

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

**Object ID**
enterprise.8164.1.19.1.1.6

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

**Syntax**

`InetAddressType`

**Access**
Read-only

Object

**starCLIRemoteIPAddr**

**Object ID**
enterprise.8164.1.19.1.1.7 (see note for `starCLIRemoteIpAddrType`) enterprise.8164.1.19.1.1.6 (prior to 14.0)
Description
The remote IP address used to access this CLI session. Where unknown or not applicable (such as access through a serial port) this will be 0.

Syntax
InetAddress

Access
Read-only

Object
starCLIContext

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

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

Syntax
DisplayString

Access
Read-only

Object
starCLIDatabaseUsername

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

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

Syntax
DisplayString

Access
Read-only

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

Object
starTaskTable
Starent Chassis Objects

MIB Textual Conventions

SNMP MIB Reference, StarOS Release 17

Object ID
enterprise.8164.1.20.1

Description
A table containing information about all of the active tasks.

Syntax
Sequence of StarSvcEntry

Access
not-accessible

Object
starTaskEntry

Object ID
enterprise.8164.1.20.1.1

Description
Information about a particular task.

Syntax
StarSvcEntry

Access
not-accessible

Sequence
starTaskFacility Index
starTaskInstance Index
starTaskFacilityName
starTaskCard
starTaskCPU

Object
starTaskFacility

Object ID
enterprise.8164.1.20.1.1.1

Description
The internal identify of the facility.

Syntax
Unsigned32

Access
not-accessible
<table>
<thead>
<tr>
<th>Object</th>
<th>Description</th>
<th>Syntax</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>starTaskInstance</td>
<td>The internal instance identifier which uniquely identifies this task without a given facility.</td>
<td>Unsigned32</td>
<td>accessible-for-notify</td>
</tr>
<tr>
<td>starTaskFacilityName</td>
<td>The name of the facility the task is associated with.</td>
<td>DisplayString</td>
<td>Read-only</td>
</tr>
<tr>
<td>starTaskCard</td>
<td>The slot number of the card where the task is located.</td>
<td>Unsigned32</td>
<td>Read-only</td>
</tr>
<tr>
<td>starTaskCPU</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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
starPPPStatMchapAuthAttempt
starPPPStatChapAuthFail
starPPPStatPapAuthFail
starPPPStatMchapAuthFail
starPPPStatStacComp
starPPPStatMppcComp
starPPPStatDeflComp
starPPPStatFscErrs
starPPPStatUnknProto
starPPPStatBadAddr
starPPPStatBadCtrl
starPPPStatVjComp
starPPPStatDiscLcpRemote
starPPPStatDiscRpRemote
starPPPStatDiscAdmin
starPPPStatDiscIdleTimeout
starPPPStatDiscAbsTimeout
starPPPStatDiscPPPKeepalive
starPPPStatDiscNoResource
starPPPStatDiscMisc
starPPPStatFailedReneg
starPPPStatLcpFailUnknown
starPPPStatIpcpFailUnknown
starPPPStatAuthAbort
starPPPStatLowerLayerDisc
starPPPStatLcpSuccess
starPPPStatAuthSuccess
starPPPStatRenegLowerLayerHandoff
starPPPStatRenegParamUpdate
starPPPStatChapAuthSuccess
starPPPStatPapAuthSuccess
starPPPStatMSChapAuthSuccess
starPPPStatChapAuthAbort
starPPPStatPapAuthAbort
starPPPStatMSChapAuthAbort
starPPPStatSessSkipAuth
starPPPStatNegComp
starPPPStatCCPNegFailComp
starPPPStatDiscLocalLowerLayer
starPPPStatDiscAddFlowFail
starPPPStatDiscMaxRetriesLCP
starPPPStatDiscMaxRetriesIPCP
starPPPStatDiscMaxSetupTimer
starPPPStatDiscInvalidDestVpn
starPPPStatDiscOptNegFailLCP
starPPPStatDiscOptNegFailIPCP
starPPPStatDiscNoRemoteIpAddr
starPPPStatDiscCallTypeDetectFail
starPPPStatDiscRemoteDiscUpLayer
starPPPStatDiscLongDuraTimeout
starPPPStatDiscAuthFail
starPPPStatLcpEchoTotalReq
starPPPStatLcpEchoReqResent
starPPPStatLCEchoRepRecved
starPPPStatLCEchoReqTimeout
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).
Object: starPPPStatServName

Object ID: enterprise.8164.1.21.1.1.4

Description: The name of the PPP service.

Object: starPPPStatInit

Object ID: enterprise.8164.1.21.1.1.5

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

Object: starPPPStatReneg

Object ID: enterprise.8164.1.21.1.1.6

Description: The number of PPP session renegotiations for the associated VPN service.
<table>
<thead>
<tr>
<th>Object</th>
<th>starPPPStatSuccess</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.21.1.1.7</td>
</tr>
<tr>
<td>Description</td>
<td>The number of PPP session negotiation successes for the associated VPN service.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Counter32</td>
</tr>
<tr>
<td>Access</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starPPPStatFailed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.21.1.1.8</td>
</tr>
<tr>
<td>Description</td>
<td>The number of PPP session negotiation failures for the associated VPN service.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Counter32</td>
</tr>
<tr>
<td>Access</td>
<td>Read-only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starPPPStatReleased</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.21.1.1.9</td>
</tr>
<tr>
<td>Description</td>
<td>The number of PPP sessions released for the associated VPN service.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Counter32</td>
</tr>
<tr>
<td>Access</td>
<td>Read-only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starPPPStatReleasedLocal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.21.1.1.10</td>
</tr>
</tbody>
</table>
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
tenterprise.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
tenterprise.8164.1.21.1.1.12

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

Syntax
Counter32

Access
Read-only

Object
starPPPStatLcpFailOption

Object ID
tenterprise.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.
Starent Chassis Objects

MIB Textual Conventions

SNMP MIB Reference, StarOS Release 17

99

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.8164.1.21.1.1.23

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

MIB Textual Conventions

Syntax  
Counter32

Access  
Read-only

Object  
starPPPStatRenegOther

Object ID  
enterprise.8164.1.21.1.1.24

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

Syntax  
Counter32

Access  
Read-only

Object  
starPPPStatChapAuthAttempt

Object ID  
enterprise.8164.1.21.1.1.25

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

Syntax  
Counter32

Access  
Read-only

Object  
starPPPStatPapAuthAttempt

Object ID  
enterprise.8164.1.21.1.1.26

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

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.

Syntax
Counter32

Access
Read-only

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
<table>
<thead>
<tr>
<th>Access</th>
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</thead>
<tbody>
<tr>
<td><strong>Object</strong></td>
<td>starPPPStatFscErrs</td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.21.1.1.34</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The number of PPP forward sequence control errors in messaging.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Counter32</td>
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<table>
<thead>
<tr>
<th>Access</th>
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<tbody>
<tr>
<td><strong>Object</strong></td>
<td>starPPPStatUnknProto</td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.21.1.1.35</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The number of PPP sessions which failed due to an unknown protocol received for the associated VPN service.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Counter32</td>
</tr>
</tbody>
</table>

<table>
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<tbody>
<tr>
<td><strong>Object</strong></td>
<td>starPPPStatBadAddr</td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.21.1.1.36</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The number of PPP sessions which failed due to a bad address being received for the associated VPN service.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Counter32</td>
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<table>
<thead>
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<tbody>
<tr>
<td><strong>Object</strong></td>
<td>starPPPStatBadCtrl</td>
</tr>
</tbody>
</table>
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.

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.
**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.

**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.

**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.
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
Object ID
enterprise.8164.1.21.1.1.50

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

Syntax
Counter32

Access
Read-only

Object
starPPPStatLowerLayerDisc

Object ID
enterprise.8164.1.21.1.1.51

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

Syntax
Counter32

Access
Read-only

Object
starPPPStatLcpSuccess

Object ID
enterprise.8164.1.21.1.1.52

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

Syntax
Counter32

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
terprise.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
terprise.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
terprise.8164.1.21.1.1.56

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

Syntax
Counter32

Access
Read-only

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
tnsa.8164.1.21.1.1.71

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

Syntax
Counter32

Access
Read-only

Object
starPPPStatDiscOptNegFailICP

Object ID
tnsa.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
tnsa.8164.1.21.1.1.73

Description
The number of disconnected PPP sessions due to no remote IP address for the associated VPN service.
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.

Syntax
Counter32

Access
Read-only

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
terpess.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
terpess.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
terpess.8164.1.21.1.1.83

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

Syntax
Counter32

Access
Read-only

Object
starPPPStatRemoteTerm
Object ID
enterprise.8164.1.21.1.1.84

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

Syntax
Counter32

Access
Read-only

Object
starPPPStatMiscFail

Object ID
enterprise.8164.1.21.1.1.85

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

Syntax
Counter32

Access
Read-only

enterprise.8164.1.starentMIPHA(22)

Object
starMIPHAStatTable

Object ID
enterprise.8164.1.22.1

Description
A table containing MIP home agent statistics.

Syntax
Sequence of starMIPHASatEntry

Access
not-accessible

Object
starMIPHASatEntry

Object ID
enterprise.8164.1.22.1.1
Description
The Mobile IP home agent statistics for a specific VPN (context) and service.

Syntax
starMIPHAStatEntry

Access
not-accessible

Sequence
starMIPHAStatVpnID
starMIPHAStatSvcID  Index (Implied)
starMIPHAStatVpnName
starMIPHAStatServName
starMIPHADisconnects
starMIPHAExpiry
starMIPHADereg
starMIPHAAdminDrop
starMIPHARegRecvTotal
starMIPHARegRecvInitial
starMIPHARegRecvRenew
starMIPHARegRecvDereg
starMIPHARegAcceptTotal
starMIPHARegAcceptReg,
starMIPHARegAcceptRenew
starMIPHARegAcceptDereg
starMIPHARegDeniedTotal
starMIPHARegDeniedInitial
starMIPHARegDeniedRenew
starMIPHARegDeniedDereg
starMIPHARegReplyTotal
starMIPHARegReplyAcceptReg
starMIPHARegReplyAcceptDereg
starMIPHARegReplyDenied
starMIPHARegReplyBadReq
starMIPHARegReplyMismatchID
starMIPHARegReplyAdminProhib
starMIPHARegReplyUnspecErr,
starMIPHARegReplyNoResource
starMIPHARegReplyMnAuthFail
starMIPHARegReplyFAAuthFail
starMIPHARegReplySimulBind
starMIPHARegReplyUnknownHA
starMIPHARegReplyRevTunUnavail
starMIPHARegReplyRevTunMand
starMIPHARegReplyEncapUnavail
starMIPHARegReplySendError
starMIPHAStatFARevocations
starMIPHAStatRegAcceptHO
starMIPHASstatRegDeniedHO
starMIPHASstatRegDiscardTotal

Object

starMIPHASstatVpnID

Object ID

enterprise.8164.1.22.1.1.1

Description

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

Syntax

Gauge32

Access

Read-only

Object

starMIPHASstatSvcID

Object ID

enterprise.8164.1.22.1.1.2

Description

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

Syntax

StarShortID

Access

not-accessible

Object

starMIPHASstatVpnName
Object ID
enterprise.8164.1.22.1.1.3

Description
The name of the VPN (context).

Syntax
DisplayString

Access
Read-only

Object
starMIPHASTatServName

Object ID
enterprise.8164.1.22.1.1.4

Description
The Mobile IP home agent service name.

Syntax
DisplayString

Access
Read-only

Object
starMIPHASTatDisconnects

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
starMIPHASTatExpirey

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.

Syntax
  Counter32

Access
  Read-only

Object
  starMIPHASStatRegRecvTotal

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.
<table>
<thead>
<tr>
<th>Object</th>
<th>starMIPHASStatRegRecvInitial</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.22.1.1.10</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The number of initial session registrations received for the associated Mobile IP home agent VPN service.</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>starMIPHASStatRegRecvRenew</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.22.1.1.11</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The number of session registration renewals received for the associated Mobile IP home agent VPN service.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Counter32</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>Read-only</td>
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</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starMIPHASStatRegRecvDereg</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.22.1.1.12</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The number of session deregistrations received for the associated Mobile IP home agent VPN service.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Counter32</td>
</tr>
<tr>
<td><strong>Access</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starMIPHASStatRegAcceptTotal</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.22.1.1.13</td>
</tr>
</tbody>
</table>

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

Syntax
Counter32

Access
Read-only

Object
starMIPHAStatRegAcceptReg

Object ID
enterprise.8164.1.22.1.1.14

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

Syntax
Counter32

Access
Read-only

Object
starMIPHAStatRegAcceptRenew

Object ID
enterprise.8164.1.22.1.1.15

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

Syntax
Counter32

Access
Read-only

Object
starMIPHAStatRegAcceptDereg

Object ID
enterprise.8164.1.22.1.1.16

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

Object ID
enterprise.8164.1.22.1.1.19

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

Syntax
Counter32

Access
Read-only

Object
starMIPHASStatRegDeniedDereg
Object ID
teste.8164.1.22.1.1.20

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

Syntax
Counter32

Access
Read-only

Object
starMIPHASTatRegReplyTotal

Object ID
teste.8164.1.22.1.1.21

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

Syntax
Counter32

Access
Read-only

Object
starMIPHASTatRegReplyAcceptReg

Object ID
teste.8164.1.22.1.1.22

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

Syntax
Counter32

Access
Read-only

Object
starMIPHASTatRegReplyAcceptDereg

Object ID
teste.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
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
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
starMIPHAStatRegReplyMismatchID

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**

starMIPHAStatRegReplyAdminProhib

**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.

**Syntax**

Counter32

**Access**

Read-only

**Object**

starMIPHASstatRegReplyNoResource

**Object ID**

enterprise.8164.1.22.1.1.29

**Description**

The number of session registration replies indicating no resources for the associated Mobile IP home agent VPN service.
Access
  Read-only

Object
  starMIPHASStatRegReplyMnAuthFail

Object ID
  enterprise.8164.1.22.1.1.30

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

Syntax
  Counter32

Access
  Read-only

Object
  starMIPHASStatRegReplyFAAuthFail

Object ID
  enterprise.8164.1.22.1.1.31

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

Syntax
  Counter32

Access
  Read-only

Object
  starMIPHASStatRegReplySimulBind

Object ID
  enterprise.8164.1.22.1.1.32

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

Syntax
  Counter32

Access
  Read-only
<table>
<thead>
<tr>
<th>Object</th>
<th>starMIPHAStatRegReplyUnknownHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.22.1.1.33</td>
</tr>
<tr>
<td>Description</td>
<td>The number of session registration replies indicating unknown home agent for the associated Mobile IP home agent VPN service.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Counter32</td>
</tr>
<tr>
<td>Access</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starMIPHAStatRegReplyRevTunUnavail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.22.1.1.34</td>
</tr>
<tr>
<td>Description</td>
<td>The number of session registration replies indicating no reverse tunnel available for the associated Mobile IP home agent VPN service.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Counter32</td>
</tr>
<tr>
<td>Access</td>
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</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starMIPHAStatRegReplyRevTunMand</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.22.1.1.35</td>
</tr>
<tr>
<td>Description</td>
<td>The number of session registration replies indicating reverse tunneling is mandatory for the associated Mobile IP home agent VPN service.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Counter32</td>
</tr>
<tr>
<td>Access</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starMIPHAStatRegReplyEncapUnavail</th>
</tr>
</thead>
</table>
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
starMIPHASStatRegReplySendError

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
starMIPHASStatFARevocations

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
starMIPHAStatRegDeniedHO

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
tnterprise.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
starMIPFAAuthAttempt
starMIPFAAuthSuccess
starMIPFAAuthFailure
starMIPFARegRecvTotal
starMIPFARegRecvInitial
starMIPFARegRecvRenewal
starMIPFARegRecvDereg
starMIPFARegAcceptTotal
starMIPFARegAcceptInitial
starMIPFARegAcceptRenewal
starMIPFARegAcceptDereg
starMIPFARegDenTotal
starMIPFARegDenInitial
starMIPFARegDenRenewal
starMIPFARegDenDereg
starMIPFARegDiscardTotal
starMIPFARegDiscardInitial
starMIPFARegDiscardRenewal
starMIPFARegDiscardDereg
starMIPFARegRelayedTotal
starMIPFARegRelayedInitial
starMIPFARegRelayedRenewal
starMIPFARegRelayedDereg
starMIPFARegAuthFailTotal
starMIPFARegAuthFailInitial
starMIPFARegAuthFailRenewal
starMIPFARegAuthFailDereg
starMIPFARegDenPDSNTotal
starMIPFARegDenPDSNInitial
starMIPFARegDenPDSNRenewal
starMIPFARegDenPDSNDereg
starMIPFARegDenHATotal
starMIPFARegDenHAInitial
starMIPFARegDenHARenewal
starMIPFARegDenHADereg
starMIPFARegDenPDSNUnspec
starMIPFARegDenPDSNTimeout
starMIPFARegDenPDSNAdmin
starMIPFARegDenPDSNResources
starMIPFARegDenPDSNMnAuth
starMIPFARegDenPDSNHAAuth
starMIPFARegDenPDSNTooLong
starMIPFARegDenPDSNBadReq
starMIPFARegDenPDSNEncapUnav
starMIPFARegDenPDSNRevTunUnav
starMIPFARegDenPDSNRevTunMand
starMIPFARegDenHAFAAuth
starMIPFARegDenHABadReq
starMIPFARegDenHAMismatchID
starMIPFARegDenHASimulBind
starMIPFARegDenHAUnknownHA
starMIPFARegDenHARevRunUnavail
starMIPFARegRplRcvTotal
starMIPFARegRplRcvTotalRly
starMIPFARegRplRcvErrors
starMIPFARegRplRcvInitial
starMIPFARegRplRcvInitialRly
starMIPFARegRplRcvRenewal
starMIPFARegRplRcvRenewalRly
starMIPFARegRplRcvDereg
starMIPFARegRplRcvDeregRly
starMIPFARegRplSentTotal
starMIPFARegRplSentAcceptReg
starMIPFARegRplSentAcceptDereg
starMIPFARegRplSentBadReq
starMIPFARegRplSentTooLong
starMIPFARegRplSentMnAuthFail
starMIPFARegRplSentHAAuthFail
starMIPFARegRplSentAdminProhib
starMIPFARegRplSentNoResources
starMIPFARegRplSentRevTunUnavail
starMIPFARegRplSentRevTunMand
starMIPFARegRplSentSendErrors
starMIPFAStatRegDenPDSNBadReply
starMIPFAStatRegDenPDSNMissNAI
starMIPFAStatRegDenPDSNMissHomeAgent
starMIPFAStatRegDenPDSNMissHomeAddr
starMIPFAStatRegDenPDSNUnknrChallenge
starMIPFAStatRegDenPDSNMissChallenge
starMIPFAStatRegDenPDSNStaleChallenge
starMIPFAStatRegDenPDSNMTooDistant
starMIPFAStatRegDenPDSNSStyleUnavail
starMIPFAStatRegDenPDSNHANetUnreach
starMIPFAStatRegDenPDSNHOSTUnreach
starMIPFAStatRegDenPDSNAPortUnreach
starMIPFAStatRegDenPDSNHAUnreach
starMIPFAStatRegDenPDSNIInvCOA
starMIPFAStatRegReqSentInitTotal
starMIPFAStatRegReqSentInitResend
starMIPFAStatRegReqSentRenewTotal
starMIPFAStatRegReqSentRenewResend
starMIPFAStatRegReqSentDeregTotal
starMIPFAStatRegReqSentDeregResend
starMIPFAStatRegRplSentMNTooDistant
starMIPFAStatRegRplSentInvCOA
starMIPFAStatRegRplSentHANetUnreach
starMIPFAStatRegRplSentHAHostUnreach
starMIPFAStatRegRplSentHAPortUnreach
starMIPFAStatRegRplSentHAUnreach
starMIPFAStatRegRplSentRegTimeout
starMIPFAStatRegRplSentMissNAI
starMIPFAStatRegRplSentMissHomeAgent
starMIPFAStatRegRplSentMissHomeAddr
starMIPFAStatRegRplSentUnknChallenge
starMIPFAStatRegRplSentMissChallenge
starMIPFAStatRegRplSentStaleChallenge
starMIPFAStatRegRplSentBadReply

Object
starMIPFAStatVpnID

Object ID
textual_conventions
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
textual_conventions
enterprise.8164.1.23.1.1.2

SNMP MIB Reference, StarOS Release 17
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
terprise.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
terprise.8164.1.23.1.1.10

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

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatAuthFailure

Object ID
terprise.8164.1.23.1.1.11

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

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegRecvTotal
Object ID
enterprise.8164.1.23.1.1.12

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

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegRecvInitial

Object ID
enterprise.8164.1.23.1.1.13

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

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegRecvRenewal

Object ID
enterprise.8164.1.23.1.1.14

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

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegRecvDereg

Object ID
enterprise.8164.1.23.1.1.15

Description
The number of session deregistrations for the associated Mobile IP foreign agent VPN service.
Syntax
Counter32
Access
Read-only

Object
starMIPFAStatRegAcceptTotal

Object ID
enterprise.8164.1.23.1.1.16

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

Syntax
Counter32
Access
Read-only

Object
starMIPFAStatRegAcceptInitial

Object ID
enterprise.8164.1.23.1.1.17

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

Syntax
Counter32
Access
Read-only

Object
starMIPFAStatRegAcceptRenewal

Object ID
enterprise.8164.1.23.1.1.18

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

Object ID
enterprise.8164.1.23.1.1.19

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

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegDenTotal

Object ID
enterprise.8164.1.23.1.1.20

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

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegDenInitial

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
starMIPFASatRegDiscardRenewal

Object ID
text.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
starMIPFASatRegDiscardDereg

Object ID
text.8164.1.23.1.1.27

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

Syntax
Counter32

Access
Read-only

Object
starMIPFASatRegRelayedTotal

Object ID
text.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
starMIPFASatRegRelayedInitial
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
starMIPFAStatRegAuthFailDereg

Object ID
enterprise.8164.1.23.1.1.35

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

**Object ID**
enterprise.8164.1.23.1.1.36

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

**Syntax**
Counter32

**Access**
Read-only

### 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

### 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

### starMIPFASstatRegDenPDSNDereg

**Object ID**
enterprise.8164.1.23.1.1.39
Description
The number of PDSN session deregistrations denied for the associated Mobile IP foreign agent VPN service.

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegDenHATotal

Object ID
enterprise.8164.1.23.1.1.40

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

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegDenHAInitial

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  
starMIPFASatRegDenHADereg

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  
starMIPFASatRegDenPDSNUnspec

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  
starMIPFASatRegDenPDSNTimeout

Object ID  
enterprise.8164.1.23.1.1.45

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

Syntax  
Counter32
Access
Read-only

Object
starMIPFAStatRegDenPDSNAdmin

Object ID
enterprise.8164.1.23.1.1.46

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

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegDenPDSNResources

Object ID
enterprise.8164.1.23.1.1.47

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

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegDenPDSNMnAuth

Object ID
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
enterprise.8164.1.23.1.1.51

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

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegDenPDSNEncapUnav
Object ID  
enterprise.8164.1.23.1.1.52

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

Syntax  
Counter32

Access  
Read-only

Object  
starMIPFAStatRegDeniedPDSNRevTunUnav

Object ID  
enterprise.8164.1.23.1.1.53

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

Syntax  
Counter32

Access  
Read-only

Object  
starMIPFAStatRegDenPDSNRevTunMand

Object ID  
enterprise.8164.1.23.1.1.54

Description  
The number of PDSN session registration denied due to reverse tunneling being mandatory for the associated Mobile IP foreign agent VPN service.

Syntax  
Counter32

Access  
Read-only

Object  
starMIPFAStatRegDenHAFAAuth

Object ID  
enterprise.8164.1.23.1.1.55
Description
The number of session registrations denied by the home agent due to authentication failure for the associated Mobile IP foreign agent VPN service.

Syntax
Counter32

Access
Read-only

Object
starMIPFASatRegDenHABadReq

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
starMIPFASatRegDenHAMismatchID

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
starMIPFASatRegDenHASimulBind

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
starMIPFAStatRegDenHAUnknownHA

Object ID
test enterprise.8164.1.23.1.1.59

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

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegDenHARevRunUnavail

Object ID
test 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
starMIPFAStatRegRplRcvTotal

Object ID
test 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
starMIPFASatRegRplRcvTotalRly

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
starMIPFASatRegRplRcvErrors

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
starMIPFASatRegRplRcvInitial

Object ID
enterprise.8164.1.23.1.1.64

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

Syntax
Counter32
Access
Read-only

Object
starMIPFAStatRegRplRcvInitialRly

Object ID
enterprise.8164.1.23.1.1.65

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

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegRplRcvRenewal

Object ID
enterprise.8164.1.23.1.1.66

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

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegRplRcvRenewalRly

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
starMIPFAStatRegRplRcvDereg


SNMP MIB Reference, StarOS Release 17
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
enterprise.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
enterprise.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
enterprise.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
tenterprise.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
tenterprise.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
tenterprise.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
starMIPFAStatRegRplSentRevTunUnavail

Object ID
enterprise.8164.1.23.1.1.79

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

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegRplSentRevTunMand

Object ID
enterprise.8164.1.23.1.1.80
Description
The number of session registration replies which were sent indicating reverse tunneling was mandatory for the associated Mobile IP foreign agent VPN service.

Syntax
Counter32

Access
Read-only

Object
starMIPFAStratRegRplSentSendErrors

Object ID
terpri.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
starMIPFAStratRegDenPDSNBadReply

Object ID
terpri.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
starMIPFAStratRegDenPDSNMissNAI

Object ID
terpri.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
starMIPFAStatRegDenPDSNStyleUnavail

Object ID
table.8164.1.23.1.1.90

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

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegDenPDSNHANetUnreach

Object ID
table.8164.1.23.1.1.91

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

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegDenPDSNHAHostUnreach

Object ID
table.8164.1.23.1.1.92
Description
The number of session registrations denied by PDSN due to HA host unreachable for the associated Mobile IP foreign agent VPN service.

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegDenPDSNHAPortUnreach

Object ID
enterprise.8164.1.23.1.1.93

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

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegDenPDSNHAUnreach

Object ID
enterprise.8164.1.23.1.1.94

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

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegDenPDSNInvCOA

Object ID
enterprise.8164.1.23.1.1.95
Description
The number of session registrations denied by PDSN due to invalid COA for the associated Mobile IP foreign agent VPN service.

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegReqSentInitTotal

Object ID
enterprise.8164.1.23.1.1.96

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

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegReqSentInitResend

Object ID
enterprise.8164.1.23.1.1.97

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

Syntax
Counter32

Access
Read-only

Object
starMIPFAStatRegReqSentRenewTotal

Object ID
enterprise.8164.1.23.1.1.98

Description
The number of renewal session registrations for the associated Mobile IP foreign agent VPN service.
Syntax
Counter32

Access
Read-only

Object
starMIPFASStatRegReqSentRenewResend

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.

Syntax
Counter32

Access
Read-only

Object
starMIPFASStatRegReqSentDeregTotal

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
starMIPFASStatRegReqSentDeregResend

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
starMIPFASstatRegRplSentHAPortUnreach

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
starMIPFASstatRegRplSentHAUnreach

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
starMIPFASstatRegRplSentRegTimeout

Object ID
enterprise.8164.1.23.1.1.108
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

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

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.starrentRP(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
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
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
starRPRRegAcceptIntraPDSN

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
starRPRRegDeniedInitial

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
starRPRRegAcceptRenew

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 for the associated R-P VPN service.
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.
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.

Syntax
Counter32

Access
Read-only

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
ternprise.8164.1.24.1.1.31

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

Syntax
Counter32

Access
Read-only

Object
starRPRegUpdTotal

Object ID
ternprise.8164.1.24.1.1.32

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

Syntax
Counter32

Access
Read-only

Object
starRPRegUpdAccept

Object ID
ternprise.8164.1.24.1.1.33

Description
The number of session registration updates which were accepted for the associated R-P VPN service.
Syntax
Counter32

Access
Read-only

Object
starRPRegUpdDenied

Object ID
enterprise.8164.1.24.1.1.34

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

Syntax
Counter32

Access
Read-only

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.
### Object

**starRPRegUpdRetrans**

**Object ID**
enterprise.8164.1.24.1.1.37

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

**Syntax**
Counter32

**Access**
Read-only

---

### Object

**starRPRegUpdReceived**

**Object ID**
enterprise.8164.1.24.1.1.38

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

**Syntax**
Counter32

**Access**
Read-only

---

### Object

**starRPRegUpdDiscard**

**Object ID**
enterprise.8164.1.24.1.1.39

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

**Syntax**
Counter32

**Access**
Read-only

---

### Object

**starRPRegUpdSendError**

**Object ID**
enterprise.8164.1.24.1.1.40
Description
The number of session registration updates with errors in transmission for the associated R-P VPN service.

Syntax
Counter32

Access
Read-only

Object
starRPRegUpdUplyrInit

Object ID
enterprise.8164.1.24.1.1.41

Description
The number of session registration updates with up-link re-initializations.

Syntax
Counter32

Access
Read-only

Object
starRPRegUpdOther

Object ID
enterprise.8164.1.24.1.1.42

Description
The number of session registration updates with a reason of ‘other’ for the associated R-P VPN service.

Syntax
Counter32

Access
Read-only

Object
starRPRegUpdHandoff

Object ID
enterprise.8164.1.24.1.1.43

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

Syntax
Counter32
Access
Read-only

Object
starRPRegUpdDenyUnspec

Object ID
enterprise.8164.1.24.1.1.44

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

Syntax
Counter32

Access
Read-only

Object
starRPRegUpdDenyAdminProhib

Object ID
enterprise.8164.1.24.1.1.45

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

Syntax
Counter32

Access
Read-only

Object
starRPRegUpdDenyAuth

Object ID
enterprise.8164.1.24.1.1.46

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

Syntax
Counter32

Access
Read-only

Object
starRPRegUpdDenyMismatchID
Object ID
enterprise.8164.1.24.1.1.47

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

Syntax
Counter32

Access
Read-only

Object
starRPRegUpdDenyBadRequest

Object ID
enterprise.8164.1.24.1.1.48

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

Syntax
Counter32

Access
Read-only

Object
starRPSecViolations

Object ID
enterprise.8164.1.24.1.1.49

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

Syntax
Counter32

Access
Read-only

Object
starRPSecBadAuth

Object ID
enterprise.8164.1.24.1.1.50

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

Object ID enterprise.8164.1.24.1.1.51

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

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.

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.
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
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
starRPDiscSessAbsent

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  
starRPDiscNoMemory

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  
starRPDiscMalformed

Object ID  
enterprise.8164.1.24.1.1.65

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

Syntax  
Counter32

Access  
Read-only

Object  
starRPDiscAuthFail

Object ID  
enterprise.8164.1.24.1.1.66

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

Syntax  
Counter32

Access  
Read-only

Object  
starRPDiscInternalBounce
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<tr>
<th>Object ID</th>
<th>MIB Reference: enterprise.8164.1.24.1.1.67</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The number of registration request discarded because internal bounce for the associated R-P VPN service.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Counter32</td>
</tr>
<tr>
<td>Access</td>
<td>Read-only</td>
</tr>
<tr>
<td>Object</td>
<td>starRPDisclnpuQueueExceeded</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object ID</th>
<th>MIB Reference: enterprise.8164.1.24.1.1.68</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The number of registration request discarded because internal queue exceeded for the associated R-P VPN service.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Counter32</td>
</tr>
<tr>
<td>Access</td>
<td>Read-only</td>
</tr>
<tr>
<td>Object</td>
<td>starRPDiscmismatchedId</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object ID</th>
<th>MIB Reference: enterprise.8164.1.24.1.1.69</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The number of registration request discarded because mismatched ID for the associated R-P VPN service.</td>
</tr>
<tr>
<td>Syntax</td>
<td>Counter32</td>
</tr>
<tr>
<td>Access</td>
<td>Read-only</td>
</tr>
<tr>
<td>Object</td>
<td>starRPDisclnvpacketLen</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object ID</th>
<th>MIB Reference: enterprise.8164.1.24.1.1.70</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The number of registration request discarded because invalid packet length for the associated R-P VPN service.</td>
</tr>
</tbody>
</table>
Syntax
Counter32

Access
Read-only

Object
starRPDiscMisc

Object ID
enterprise.8164.1.24.1.1.71

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

Syntax
Counter32

Access
Read-only

Object
starRP1xTxBytes

Object ID
enterprise.8164.1.24.1.1.72

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

Syntax
Counter32

Access
Read-only

Object
starRPDiscMisc

Object ID
enterprise.8164.1.24.1.1.73

Description
The number of 1x bytes received, in megabytes.
Object
starRP1xTxPackets

Object ID
enterprise.8164.1.24.1.1.74

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

Syntax
Counter32

Access
Read-only

Object
starRP1xRxPackets

Object ID
enterprise.8164.1.24.1.1.75

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

Syntax
Counter32

Access
Read-only

Object
starRPDoTxBytes

Object ID
enterprise.8164.1.24.1.1.76

Description
The number of Do bytes transmitted, in megabytes.

Syntax
Counter32

Access
Read-only

Object
starRPDoRxBytes

Object ID
enterprise.8164.1.24.1.1.77
Description
The number of Do bytes received, in megabytes.

Syntax
Counter32

Access
Read-only

Object
starRPDoTxPackets

Object ID
enterprise.8164.1.24.1.1.78

Description
The number of Do packets transmitted, in thousands.

Syntax
Counter32

Access
Read-only

Object
starRPDoRxPackets

Object ID
enterprise.8164.1.24.1.1.79

Description
The number of Do packets received, in thousands.

Syntax
Counter32

Access
Read-only

enterprise.8164.1.starentSubscriber(26)

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

Object
starSubTable

Object ID
enterprise.8164.1.26.1
Description
A table containing subscriber information.

Syntax
SEQUENCE OF starSubEntry

Access
not-accessible

Object
starSubEntry

Object ID
enterprise.8164.1.26.1.1

Description
Information for a specific Subscriber.

Syntax
starSubEntry

Access
not-accessible

Sequence
starSubContext
starSubMSID  Index
starSubName  Index
starSubTimerDuration
starSubLongDurTimeoutAction
starSubSetupTime
starSubHomeAddr
starSubHomeAddrv6

Object
starSubContext

Object ID
enterprise.8164.1.26.1.1.1

Description
The context the subscriber is in.

Syntax
DisplayString

Access
-notify
Object
  starSubMSID

Object ID
t
enterprise.8164.1.26.1.1.2

Description
The MSID of the subscriber.

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

Access
accessible-for-notify

Object
  starSubName

Object ID
t
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
t
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
t
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
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
cstarThreshMeasuredMB

Object ID
enterprise.8164.1.28.5

Description
The measured value of a thresholded parameter.

Syntax
Guard32

Units
Megabytes

Access
accessible-for-notify

Object
cstarThreshMB

Object ID
enterprise.8164.1.28.6

Description
The configured value of a thresholded parameter.

Syntax
Unsigned32

Units
Megabytes

Access
accessible-for-notify

Object
cstarThreshMeasuredGB

Object ID
enterprise.8164.1.28.7

Description
The configured value of a thresholded parameter.

Syntax
Gauge32
### 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

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
### Starent Chassis Objects

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<thead>
<tr>
<th>Object</th>
<th>Type</th>
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</thead>
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<td>starPortLinkState</td>
<td>INTEGER</td>
</tr>
<tr>
<td>starRedundantPortSlot</td>
<td>integer32</td>
</tr>
<tr>
<td>starRedundantPortNum</td>
<td>integer32</td>
</tr>
<tr>
<td>starPortRXByte</td>
<td>Counter32</td>
</tr>
<tr>
<td>starPortTXByte</td>
<td>Counter32</td>
</tr>
<tr>
<td>starPortRXFrames</td>
<td>Counter32</td>
</tr>
<tr>
<td>starPortTXFrames</td>
<td>Counter32</td>
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<td>starPortRxDiscards</td>
<td>Counter32</td>
</tr>
<tr>
<td>starPortTxDiscards</td>
<td>Counter32</td>
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<tr>
<td>starPortRxErrors</td>
<td>Counter32</td>
</tr>
<tr>
<td>starPortTxErrors</td>
<td>Counter32</td>
</tr>
</tbody>
</table>

#### 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**
ablessible-for-notify

#### Object: starPortType

SNMP MIB Reference, StarOS Release 17
Object ID
enterprise.8164.1.29.1.1.3

Description
The port type.

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

Access
Read-only

Object
starPortTypeDescr

Object ID
enterprise.8164.1.29.1.1.4

Description
A textual representation of the starPortType attribute

Syntax
DisplayString

Access
Read-only

Object
starPortAdminState

Object ID
enterprise.8164.1.29.1.1.5
Description

The administrative start of the port

Syntax

INTEGER

Access

Read-only

Enumeration

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

Object

starPortOperState

Object ID

enterprise.8164.1.29.1.1.6

Description

The operation status of the port

Syntax

INTEGER

Access

Read-only

Enumeration

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

Object

starPortOperMode

Object ID

enterprise.8164.1.29.1.1.7

Description

The operation mode of the port

Syntax

INTEGER
Starent Chassis Objects

Access
Read-only

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

Object
starPortLinkState

Object ID
enterprise.8164.1.29.1.1.8

Description
The link status of the port

Syntax
INTEGER

Access
Read-only

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

Object
starRedundantPortSlot

Object ID
enterprise.8164.1.29.1.1.9

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

Syntax
Integer32(1..48)

Access
Read-only

Object
starRedundantPortNum

Object ID
enterprise.8164.1.29.1.1.10
**Starent Chassis Objects**

**MIB Textual Conventions**

**SNMP MIB Reference, StarOS Release 17**

---

**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.

Syntax
Counter32

Access
Read-only

Object
starPortRxDiscards

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
starPortTxDiscards

Object ID
enterprise.8164.1.29.1.1.16
The number of outbound packets which were chosen to be discarded even though no errors had been detected to prevent their being transmitted. One possible reason for discarding such a packet could be to free up buffer space.

**Syntax**
Counter32

**Access**
read-only

**Object**
starPortRxErrors

**Object ID**
enterprise.8164.1.29.1.1.17

The number of inbound packets that contained errors preventing them from being deliverable to a higher-layer protocol.

**Syntax**
Counter32

**Access**
read-only

**Object**
starPortTxErrors

**Object ID**
enterprise.8164.1.29.1.1.18

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
enterprise.8164.1.30.1

Description
A table containing IP Pool information.

Syntax
SEQUENCE OF StarIPPoolEntry

Access
not-accessible

Object
starIPPoolEntry
Object ID

enterprise.8164.1.30.1.1

Description

Information for a specific IP Pool

Syntax

StarIPPoolEntry

Access

not-accessible

Sequence

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

Object

starIPPoolVpnID

Object ID

enterprise.8164.1.30.1.1.1

Description

The context ID for this pool.

Syntax

Gauge32

Access

Read-only

Object

starIPPoolID
Object ID
enterprise.8164.1.30.1.1.2

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

Syntax
StarMediumID

Access
not-accessible

Object
starIPPoolContext

Object ID
enterprise.8164.1.30.1.1.3

Description
The context for this pool.

Syntax
DisplayString

Access
not-accessible

Object
starIPPoolGroup

Object ID
enterprise.8164.1.30.1.1.4

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

Syntax
DisplayString

Access
not-accessible

Object
starIPPoolName

Object ID
enterprise.8164.1.30.1.1.5

Description
The name of the IP pool.
Syntax
OCTET STRING (SIZE (1..32))

Access
not-accessible

Object
starIPPoolType

Object ID
enterprise.8164.1.30.1.1.6

Description
The type of the pool.

Syntax
INTEGER

Access
Read-only

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

Object
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

Object

starIPPoolMaskorEndAddr

Object ID
enterprise.8164.1.30.1.1.9

Description
The mask or end IP address of the pool.

Syntax
IpAddress

Access
Read-only

Object

starIPPoolPriority

Object ID
enterprise.8164.1.30.1.1.10

Description
The priority of the pool.

Syntax
Integer32

Access
Read-only
Starent Chassis Objects

MIB Textual Conventions

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

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

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

starIPPoolFree

Object ID
enterprise.8164.1.30.1.1.14

SNMP MIB Reference, StarOS Release 17

222
**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)
queuesize(4)
queuedelay(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
accessible-for-notify

Object
starPTACActive

Object ID
enterprise.8164.1.31.4

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

Syntax
Integer32(0..14)

Access
accessible-for-notify

Object
starContextName

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

Syntax
DisplayString

Access
accessible-for-notify

Object
starInterfaceName

Object ID
terprise.8164.1.31.6

Description
The name of an interface.

Syntax
DisplayString

Access
accessible-for-notify

Object
starPCFAddress

Object ID
terprise.8164.1.31.7

Description
The IP address of a PCF.

Syntax
IpAddress

Access
accessible-for-notify

Object
starPeerAddress

Object ID
terprise.8164.1.31.8

Description
Peer Address

Syntax
IpAddress
### starLicensedSessions

- **Object ID**: enterprise.8164.1.31.9
- **Description**: The number of sessions enabled by the software license.
- **Syntax**: Unsigned32
- **Access**: accessible-for-notify

### 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

### starL3Address

- **Object ID**: enterprise.8164.1.31.11
- **Description**: L3 Address
- **Syntax**: IpAddress
- **Access**: accessible-for-notify
Object ID
enterprise.8164.1.31.12

Description
UDP Port Number

Syntax
Integer32(1..65535)

Access
accessible-for-notify

Object
cstarSRPIPAddress

Object ID
enterprise.8164.1.31.13

Description
SRP IP Address

Syntax
IpAddress

Access
accessible-for-notify

Object
cstarBGPPeerIPAddress

Object ID
enterprise.8164.1.31.14

Description
BGP Peer IP Address

Syntax
IpAddress

Access
accessible-for-notify

Object
cstarContFiltCFFilename

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
enterprise.8164.1.31.17

Description
The total number of calls fetched from AAA Manager

Syntax
Integer32

Access
accessible-for-notify

Object
starPriorToAudit

Object ID
enterprise.8164.1.31.18

Description
The number calls prior to audit

Syntax
Integer32

Access
accessible-for-notify
<table>
<thead>
<tr>
<th><strong>Object</strong></th>
<th>starPassedAudits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.31.19</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The number calls passed audit</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Integer32</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>accessible-for-notify</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Object</strong></th>
<th>starCallsRecovered</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.31.20</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The number of calls recovered</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Integer32</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>accessible-for-notify</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Object</strong></th>
<th>starA11CallLines</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.31.21</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The number of A11 call lines</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Integer32</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>accessible-for-notify</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th><strong>Object</strong></th>
<th>starElapsedTime</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.31.22</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Access</th>
<th>accessible-for-notify</th>
</tr>
</thead>
</table>

**Object**

starDiameterEndpointName

**Object ID**

enterprise.8164.1.31.26

**Description**

Diameter Endpoint Name

**Syntax**

DisplayString

---

Access

<table>
<thead>
<tr>
<th>Access</th>
<th>accessible-for-notify</th>
</tr>
</thead>
</table>

**Object**

starInterfaceIPAddress

**Object ID**

enterprise.8164.1.31.27

**Description**

Interface IP Address

**Syntax**

IpAddress

---

Access

<table>
<thead>
<tr>
<th>Access</th>
<th>accessible-for-notify</th>
</tr>
</thead>
</table>

**Object**

starOSPFNeighborRouterId

**Object ID**

enterprise.8164.1.31.28

**Description**

Interface IP Address

**Syntax**

IpAddress

---

Access

<table>
<thead>
<tr>
<th>Access</th>
<th>accessible-for-notify</th>
</tr>
</thead>
</table>

**Object**

starOSPFFromState

---
Object ID
enterprise.8164.1.31.29

Description
FROM state for OSPF Neighbor

Syntax
StarOSPFNeighborState

Access
accessible-for-notify

Object
starOSPFToState

Object ID
enterprise.8164.1.31.30

Description
TO state for OSPF Neighbor

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
DisplayString

Access
accessible-for-notify

Object
starDiameterECode

Object ID
enterprise.8164.1.31.33

Description
Diameter Cause code

Syntax
Integer

Access
accessible-for-notify

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

Object
starDiameterPeerAddrIpv6
Object ID
enterprise.8164.1.31.34

Description
Diameter Peer Address

Syntax
Ipv6Address

Access
accessible-for-notify

Object
starContFiltCFUpgradeFilename

Object ID
enterprise.8164.1.31.35

Description
File name for the Full or Incremental OPTCMDB

Syntax
DisplayString

Access
accessible-for-notify

Object
starContFiltCFUpgradeErrorCode

Object ID
enterprise.8164.1.31.36

Description
Error code

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

Access
accessible-for-notify

Object
starBLUpgradeFilename

Object ID
enterprise.8164.1.31.37
File name for the Full OPTBLDB

DisplayString

accessible-for-notify

starBLUpgradeErrorCode

tele.8164.1.31.38

Error code

unknownerror(1)

upgradefullfailure(2)

accessible-for-notify

starDynPkgFilename

tele.8164.1.31.39

File name for the DynPkg

DisplayString

accessible-for-notify

starDynCFErrorCode

tele.8164.1.31.40

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

Object
starEGTPVpnName

Object ID
enterprise.8164.1.31.45

Description
The name of this VPN (context)

Syntax
DisplayString

Access
accessible-for-notify

Object
starEGTPServName

Object ID
enterprise.8164.1.31.46

Description
The name of this service

Syntax
DisplayString
Access accessible-for-notify

Object
starEGTPInterfaceType

Object ID
tenterprise.8164.1.31.47

Description
Egtp interface type

Syntax
INTEGER

Access accessible-for-notify

Object
starEGTPSelfPort

Object ID
enterprise.8164.1.31.48

Description
The Port number of the EGTP

Syntax
Gauge32

Access accessible-for-notify

Object
starEGTPSelfAddr

Object ID
enterprise.8164.1.31.49

Description
The IP Address of the EGTP

Syntax
IpAddress

Access accessible-for-notify

Object
starEGTPPeerPort
<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.1.31.50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Port number of the PeerNode</td>
</tr>
<tr>
<td>Syntax</td>
<td>Gauge32</td>
</tr>
<tr>
<td>Access</td>
<td>accessible-for-notify</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.1.31.51</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The IP Address of the PeerNode</td>
</tr>
<tr>
<td>Syntax</td>
<td>IpAddress</td>
</tr>
<tr>
<td>Access</td>
<td>accessible-for-notify</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.1.31.52</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>EGTP peer old restart counter</td>
</tr>
<tr>
<td>Syntax</td>
<td>Gauge32</td>
</tr>
<tr>
<td>Access</td>
<td>accessible-for-notify</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.1.31.53</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>EGTP peer new restart counter</td>
</tr>
</tbody>
</table>
Syntax
Gauge32

Access
accessible-for-notify

Object
starEGTPPeerSessCnt

Object ID
enterprise.8164.1.31.54

Description
EGTP peer session count

Syntax
Gauge32

Access
accessible-for-notify

Object
starEGTPFailureReason

Object ID
enterprise.8164.1.31.55

Description
Egtp path failure reason

Syntax
INTEGER

Access
accessible-for-notify

Object
starGSSCDRLossConfigured

Object ID
enterprise.8164.1.31.56

Description
The configured value of threshold CDR Loss at GSS

Syntax
Unsigned32

Access
accessible-for-notify
Object
  starGSSCDRLossMeasured

Object ID
  enterprise.8164.1.31.57

Description
  The Measured value of CDR Loss at GSS

Syntax
  Unsigned32

Access
  accessible-for-notify

Object
  starLicenseKey

Object ID
  enterprise.8164.1.31.58

Description
  The license key

Syntax
  Unsigned32

Access
  accessible-for-notify

Object
  starLicenseExpiryDate

Object ID
  enterprise.8164.1.31.59

Description
  The license expiration date/time

Syntax
  DateAndTime

Access
  accessible-for-notify

Object
  starLicenseDaysRemaining

Object ID
  enterprise.8164.1.31.60
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
<table>
<thead>
<tr>
<th>Object Name</th>
<th>Object ID</th>
<th>Description</th>
<th>Syntax</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>starMVGEndpointName</td>
<td>enterprise.8164.1.31.66</td>
<td>MVG Endpoint Name.</td>
<td>DisplayString</td>
<td>accessible-for-notify</td>
</tr>
<tr>
<td>starMVGProtocolType</td>
<td>enterprise.8164.1.31.68</td>
<td>MVG Protocol Types.</td>
<td>INTEGER { protocolhttp(1), protocoltcp(2), protocolicmp(3) }</td>
<td>accessible-for-notify</td>
</tr>
<tr>
<td>starMVGCauseCode</td>
<td>enterprise.8164.1.31.69</td>
<td>MVG Cause Code.</td>
<td>INTEGER { servernotreachable(1), servicereachable(2) }</td>
<td>accessible-for-notify</td>
</tr>
<tr>
<td>Access</td>
<td>accessible-for-notify</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------------</td>
<td>-----------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Object</strong></td>
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</tr>
<tr>
<td>starPCCNtfyIntfPeerName</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.31.73</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>Description</strong></td>
<td>IPCF Event Notification Interface Peer Name</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>DisplayString</td>
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<table>
<thead>
<tr>
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<th>accessible-for-notify</th>
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<tbody>
<tr>
<td><strong>Object</strong></td>
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</tr>
<tr>
<td>starECSTotalDNSLearntIPThresholdInstance</td>
<td></td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.31.74</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>ACSMgr Instance Id</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Integer32(1..65535)</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Access</th>
<th>accessible-for-notify</th>
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<tr>
<td>starECSTotalDNSLearntIPThresholdconfigured</td>
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<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.31.75</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Configured Threshold value in Percentage</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Integer32 (1..100)</td>
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<td><strong>Object</strong></td>
<td></td>
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<tr>
<td>starECSTotalDNSLearntIPThresholdmeasured</td>
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<tr>
<td><strong>Object ID</strong></td>
<td></td>
</tr>
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</table>
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
<table>
<thead>
<tr>
<th>Access</th>
<th>accessible-for-notify</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object</strong></td>
<td>starHENBGWServiceServName</td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.31.93</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>HENBGW Service Name.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>DisplayString</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>accessible-for-notify</td>
</tr>
<tr>
<td><strong>Object</strong></td>
<td>starHENBGWServiceLogicalENBId</td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.31.94</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>HENBGW Service Logical Enodb ID.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>DisplayString</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>accessible-for-notify</td>
</tr>
<tr>
<td><strong>Object</strong></td>
<td>starHENBGWServiceMMEServName</td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.31.95</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>HENBGW Service MME Name.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>DisplayString</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>accessible-for-notify</td>
</tr>
<tr>
<td><strong>Object</strong></td>
<td>starHENBGWServiceSelfAddr</td>
</tr>
</tbody>
</table>
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

Access
accessible-for-notify

Object
starHENBGWServiceSelfPort

Object ID
enterprise.8164.1.31.98

Description
HENBGW Service Self Port Number.

Syntax
Integer32(1..65535)

Access
not-accessible

Object
starHENBGWServicePeerPort

Object ID
enterprise.8164.1.31.99

Description
HENBGW Service Peer Port Number.
Syntax
Integer32(1..65535)

Access
accessible-for-notify

Object
starNPUSlotNumber

Object ID
enterprise.8164.1.31.100

Description
NPU Slot Number.

Syntax
Integer32(1..65535)

Access
accessible-for-notify

Object
starNPUCPUNumber

Object ID
enterprise.8164.1.31.101

Description
NPU CPU Number.

Syntax
Integer32(1..65535)

Access
accessible-for-notify

Object
starNPUNPUNumber

Object ID
enterprise.8164.1.31.102

Description
NPU's NPU Number.

Syntax
Integer32(1..65535)

Access
accessible-for-notify
Object
starChassisCrashList

Description
Chassis Crash List Full

Syntax
TruthValue

Access
accessible-for-notify

Object
starLIRcvryErrType

Object ID
enterprise.8164.1.31.104

Description
LI Recovery Error Types

Syntax
INTEGER

Access
accessible-for-notify

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

Object
starLIRcvryErrString

Object ID
enterprise.8164.1.31.105

Description
LI Recovery Error String

Syntax
DisplayString

Access
accessible-for-notify
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 enterprise.8164.1.31.105

Description The IP Address of the PMIP

Syntax_INET_ADDRESS_TYPE

Access accessible-for-notify

Object starPMIPSelfAddr

Object ID enterprise.8164.1.31.105
Description
The IP Address of the PMIP

Syntax
InetAddress

Access
accessible-for-notify

Object
starPMIPPeerAddrType

Object ID
enterprise.8164.1.31.105

Description
The IP Address of the PMIP

Syntax
InetAddressType

Access
accessible-for-notify

Object
starPMIPPeerAddr

Object ID
enterprise.8164.1.31.105

Description
The IP Address of the PMIP

Syntax
InetAddress

Access
accessible-for-notify

Object
starPMIPPeerOldRstCnt

Object ID
enterprise.8164.1.31.105

Description
PMIP peer old restart counter

Syntax
Counter32
Access
accessible-for-notify

Object
starPMIPPeerNewRstCnt

Object ID
enterprise.8164.1.31.105

Description
PMIP peer new restart counter

Syntax
Counter32

Access
accessible-for-notify

Object
starPMIPPeerSessCnt

Object ID
enterprise.8164.1.31.105

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

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

Object ID
enterprise.8164.1.31.127

Description
Peer Port Number

Syntax
Integer32(1..65535)

Access
accessible-for-notify

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

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

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

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.8164.1.3.130

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

Object

starBfdDstAddress

Object ID

enterprise.8164.1.3.131

Description

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

Syntax

InetAddress

Access

accessible-for-notify

Object

starBfdLocalDisc

Object ID

enterprise.8164.1.3.132

Description

This object specifies the local discriminator for this BFD session used to uniquely identify it.
Starent Chassis Objects

Access
accessible-for-notify

Object
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

Object
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)
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), egqcFailure(12)}

Access

accessible-for-notify

Object

starHENBGWServiceTLRI

Object ID

timeOut.8164.1.31.136

Description

HENBGW Service Overload Traffic load reduction indication percentage.

Syntax

Unsigned32

Access

accessible-for-notify

Object

starCBSServiceVpnName

Object ID

timeOut.8164.1.31.139

Description

CBS service context name

Syntax

DisplayString
Starent Chassis Objects

MIB Textual Conventions

SNMP MIB Reference, StarOS Release 17

Access accessible-for-notify

Object
starluBcSelfPortNum

Object ID
termplate.8164.1.31.140

Description
IuBc Self Port Number

Syntax
Integer32(1..65535)

Access accessible-for-notify

Object
starluBcSelfIpAddr

Object ID
termplate.8164.1.31.141

Description
IuBc Self IP Address

Syntax
IpAddress

Access accessible-for-notify

Object
starluBcPeerPortNum

Object ID
termplate.8164.1.31.142

Description
Peer Port Number

Syntax
Integer32(1..65535)

Access accessible-for-notify

Object
starluBcPeerIpAddr
**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

**Access**
accessible-for-notify

**Object**
starPhyPortId

**Object ID**
enterprise.8164.1.31.145

**Description**
Physical Port Id as IfIndex.

**Syntax**
Integer32

**Access**
accessible-for-notify

**Object**
starGTPCRLFSessMgrInst

**Object ID**
enterprise.8164.1.31.146

**Description**
Session Manager Instance
Starent Chassis Objects

MIB Textual Conventions

Syntax
Integer32

Access
accessible-for-notify

Object
starGTPCRLFVPNName

Object ID
enterprise.8164.1.31.147

Description
Context name of VPN

Syntax
DisplayString

Access
accessible-for-notify

Object
starGTPCRLFVPNId

Object ID
enterprise.8164.1.31.148

Description
Context Id of VPN

Syntax
Integer32

Access
accessible-for-notify

Object
starGTPCRLFContextName

Object ID
enterprise.8164.1.31.149

Description
Name of Context

Syntax
DisplayString

Access
accessible-for-notify
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<tr>
<th>Object</th>
<th>starGTPCRLFCurrAppTPS</th>
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<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.31.150</td>
</tr>
<tr>
<td>Description</td>
<td>Current applied TPS value</td>
</tr>
<tr>
<td>Syntax</td>
<td>Integer32</td>
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<tr>
<td>Access</td>
<td>accessible-for-notify</td>
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<table>
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<tr>
<th>Object</th>
<th>starGTPCRLFCurrAppDelayTol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.31.151</td>
</tr>
<tr>
<td>Description</td>
<td>Current applied delay Tolerance value</td>
</tr>
<tr>
<td>Syntax</td>
<td>Integer32</td>
</tr>
<tr>
<td>Access</td>
<td>accessible-for-notify</td>
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<table>
<thead>
<tr>
<th>Object</th>
<th>starBGPPeerIpv6Address</th>
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</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.31.152</td>
</tr>
<tr>
<td>Description</td>
<td>Diameter Peer Address in IPv6</td>
</tr>
<tr>
<td>Syntax</td>
<td>Ipv6Address</td>
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<tr>
<td>Access</td>
<td>accessible-for-notify</td>
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</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starMMEEMBMSsServiceVpnName</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.1.31.153</td>
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</tbody>
</table>
Description
MME-EMBMS service context name

Syntax
DisplayString

Access
accessible-for-notify

Object
starMMEEMBMSServiceServName

Object ID
enterprise.8164.1.31.154

Description
MME-EMBMS service name

Syntax
DisplayString

Access
accessible-for-notify

enterprise.8164.1.starentGGSNService(32)

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

Object
starGGSNSerTable

Object ID
enterprise.8164.1.32.1

Description
A table containing GGSN related information

Syntax
SEQUENCE OF StarGGSNSerEntry

Access
not-accessible

Object
starGGSNSerEntry

Object ID
enterprise.8164.1.32.1.1
Description
The statistics for a specific GGSN service

Syntax
StarGGSNSerEntry

Access
not-accessible

Sequence
starGGSNSerVpnID
starGGSNSerSvcID
starSessGGSNVpnName
starSessGGSNServName
starSessGGSNPeerPort
starSessGGSNPeerAddr
starSessGGSNImsi
starSessGGSNSubsName
starSessGGSNAPNName
starSessGTPPGroupName

Object
starGGSNSerVpnID

Object ID
enterprise.8164.1.32.1.1.1

Description
The internal identification of the VPN (context)

Syntax
Gauge32

Access
not-accessible

Object
starGGSNSerSvcID

Object ID
enterprise.8164.1.32.1.1.2

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

Syntax
Gauge32
<table>
<thead>
<tr>
<th>Object</th>
<th>starSessGGSNVpnName</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.32.1.1.3</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The name of this VPN (context)</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>DisplayString</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>Read-only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starSessGGSNServName</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.32.1.1.4</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The name of this service</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>DisplayString</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>Read-only</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starSessGGSNPeerPort</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.32.1.1.5</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The Peer Port for which PATH Failure has occurred</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Gauge32</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>accessible-for-notify</td>
</tr>
</tbody>
</table>

| 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
tn.8164.1.33.1.1.4

Description
The name of the service

Syntax
DisplayString

Access
accessible-for-notify

Object
starL2TPServiceTypeName

Object ID
tn.8164.1.33.1.1.5

Description
The name of the service type

Syntax
DisplayString

Access
accessible-for-notify

Object
starL2TPLocalAddress

Object ID
tn.8164.1.33.1.1.6

Description
The local address of the service

Syntax
IpAddress
Access
accessible-for-notify

Object
starL2TPPeerAddress

Object ID
traversal.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 pd to provide the keys to lookup. Set one or more of the fields starSessSub1Context, starSessSub1NAI, starSessSub1MSID, starSessSub1IpAddr.

The SET pd 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 pd to retrieve the data.

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

Object
starSessSub1Context

Object ID
traversal.8164.1.34.1

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

Syntax
DisplayString

Access
Read-write

Object
starSessSub1NAI
Object ID
enterprise.8164.1.34.2

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

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

Access
Read-write

Object
starSessSub1MSID

Object ID
enterprise.8164.1.34.3

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

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

Access
Read-write

Object
starSessSub1IpAddr

Object ID
enterprise.8164.1.34.4

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

Syntax
IpAddress

Access
Read-write

Object
starSessSub1LastResult

Object ID
enterprise.8164.1.34.5
Description
The result of the last search. A value of unknown(0) means that the query wasn't created properly, or that no query has been performed; error(1) indicates an internal error performing the query, this is an abnormal condition that shouldn't normally be seen; nomatch(2) means that the query did not find a matching subscriber; onematch(3) means that 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
target.8164.1.34.6

Description
The service name of the subscriber.

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

Access
Read-only

Object
starSessSub1HAIpAddr

Object ID
target.8164.1.34.7

Description
The HA IP address for FA MIP connections

Syntax
IpAddress

Access
Read-only
Object
tarSessSub1PeerIpAddr

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>
<tr>
<td>LAC</td>
<td>LNS</td>
</tr>
<tr>
<td>LNS</td>
<td>LAC</td>
</tr>
</tbody>
</table>

Syntax
IpAddress

Access
Read-only

Object
tarSessSub1InPackets

Object ID
enterprise.8164.1.34.9

Description
The number of incoming packets for the subscriber

Syntax
Counter32

Access
Read-only

Object
tarSessSub1InPacketsDropped

Object ID
enterprise.8164.1.34.10

Description
The number of incoming packets dropped for the subscriber
Syntax
Counter32

Access
Read-only

Object
starSessSub1InBytes

Object ID
enterprise.8164.1.34.11

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

Syntax
Counter32

Units
KB

Access
Read-only

Object
starSessSub1OutPackets

Object ID
enterprise.8164.1.34.12

Description
The number of outgoing packets for the subscriber

Syntax
Counter32

Access
Read-only

Object
starSessSub1OutPacketsDropped

Object ID
enterprise.8164.1.34.13

Description
The number of outgoing packets dropped for the subscriber

Syntax
Counter32
Access
  Read-only

Object
  starSessSub1OutBytes

Object ID
  enterprise.8164.1.34.14

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

Syntax
  Counter32

Units
  KB

Access
  Read-only

Object
  starSessSub1Activity

Object ID
  enterprise.8164.1.34.15

Description
  TBD

Syntax
  Gauge32

Units
  %

Access
  Read-only

Object
  starSessSub1State

Object ID
  enterprise.8164.1.34.16

Description
  The state of the subscriber

Syntax
  INTEGER
Access
Read-only

Enumeration
Unknown(0)
Connecting(1)
Connected(2)
Disconnecting(3)

Object
starSessSub1CallID

Object ID
enterprise.8164.1.34.17

Description
The internal call ID of the subscriber

Syntax
Integer32

Access
Read-only

Object
starSessSub1ConnectTime

Object ID
enterprise.8164.1.34.18

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

Syntax
DateAndTime

Access
Read-only

Object
starSessSub1CallDuration

Object ID
enterprise.8164.1.34.19

Description
The duration of the call, in seconds
Syntax
Counter32

Units
Seconds

Access
Read-only

Object
starSessSub1TimIdle

Object ID
tool.8164.1.34.20

Description
The idle time of the call, in seconds

Syntax
Gauge32

Units
Seconds

Access
Read-only

Object
starSessSub1AccessType

Object ID
tool.8164.1.34.21

Description
The access type for the subscriber.

Syntax
INTEGER

Access
Read-only

Enumeration
unknown(0)
pdsmobileip(1)
pdnbia(2)
hamobileip(3)
ggsnpdptypeipv4(4)
ggsnpdptypeppp(5)
ggsnpdptypeipv6(6)
lnsl2tp(7)
haipsec(8)
ips(9)
pdsnspmip(10)
mipproxyfa(11)
imsa(12)
bcmcs(13)
ggsnmp(14)
ipprobe(15)
ansgw(16)

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)
gprsgeron(5)
gprsother(6)
wirelesslan(7)
ips(8)
wimax(9)
sip(10)
other(11)
cdmaevdoreva(12)
Object
  starSessSub1LinkStatus

Object ID
  enterprise.8164.1.34.23

Description
  The link status for the subscriber.

Syntax
  INTEGER

Enumeration
  Read-only

Sequence
  unknown(0)
  active(1)
  dormant(2)

Object
  starSessSub1NetworkType

Object ID
  enterprise.8164.1.34.24

Description
  The network type for the subscriber.

Syntax
  INTEGER

Access
  Read-only

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

**Object**
starSessSub1CarrierID

**Object ID**
enterprise.8164.1.34.25

**Description**
Carrier ID

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

**Access**
Read-only

**Object**
starSessSub1ESN

**Object ID**
enterprise.8164.1.34.26

**Description**
Electronic Serial Number

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

**Access**
Read-only

**Object**
starSessSub1GMTTimezoneOffset

**Object ID**
enterprise.8164.1.34.27

**Description**
Timezone offset from GMT, in seconds. This is a signed value

**Syntax**
Integer32

**Units**
Seconds
<table>
<thead>
<tr>
<th>Access</th>
<th>Read-only</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object</strong></td>
<td>starSessSub1SessMgr</td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.34.28</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The instance number of the session manager for this subscriber.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Unsigned32</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>Read-only</td>
</tr>
<tr>
<td><strong>Object</strong></td>
<td>starSessSub1RemoteIPAddr</td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.34.29</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Remote 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>
<tr>
<td><strong>Object</strong></td>
<td>starSessSub1Card</td>
</tr>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.34.30</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The card holding the session manager for this session. Use in combination</td>
</tr>
<tr>
<td></td>
<td>with starSessSub1CPU.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Integer32(1..16)</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>Read-only</td>
</tr>
<tr>
<td><strong>Object</strong></td>
<td>starSessSub1CPU</td>
</tr>
</tbody>
</table>

---

**SNMP MIB Reference, StarOS Release 17**
Object ID
enterprise.8164.1.34.31

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

Syntax
Integer32(0..3)

Access
Read-only

Object
starSessSub1TimeIdleLeft

Object ID
enterprise.8164.1.34.32

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

Syntax
Gauge32

Units
Seconds

Access
Read-only

Object
starSessSub1TimeLeft

Object ID
enterprise.8164.1.34.33

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

Syntax
Gauge32

Units
Seconds

Access
Read-only

Object
starSessSub1TimeLongDurLeft

Object ID
enterprise.8164.1.34.34

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

Syntax
Gauge32

Units
Seconds

Access
Read-only

Object
starSessSub1LongDurAction

Object ID
enterprise.8164.1.34.35

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

Syntax
StarLongDurTimeoutAction

Access
Read-only

Object
starSessSub1AlwaysOn

Object ID
enterprise.8164.1.34.36

Syntax
INTEGER

Access
Read-only

Enumeration
unknown(0)
enabled(1)
disabled(2)
Object
starSessSub1IPPoolName

Object ID
enterprise.8164.1.34.37

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

Access
Read-only

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

Syntax
INTEGER

Access
Read-only

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

Object
starSessSub1HomeAgentIpAddr

Object ID
enterprise.8164.1.34.42

Description
The IP address of the Home Agent. This value is applicable only if one of the following is true:
- The value of starSessSub1AccessType is pdsnmobileip(2)
- The value of starSessSub1ProxyMIP is enabled(1)
- The value of starSessSub1GGSNMIP is enabled(1)
If not applicable, a value of 0.0.0.0 will be returned

Syntax
IpAddress

Access
Read-only

Object
starSessSub1LocalIPAddr
Object ID

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

If not applicable, a value of 0.0.0.0 will be returned.

Syntax

IpAddress

Access

Read-only

Object

starSessSub1FAServiceName

Object ID

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
textual.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
time.8164.1.34.50

Syntax
Counter32

Access
Read-only

Object
time.8164.1.34.51

Access
Read-only

Object
time.8164.1.34.52

Access
Read-only

Object
time.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
enterprise.8164.1.34.59

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

Access
Read-only

Object
starSessSub1ActiveOutACL

Object ID
enterprise.8164.1.34.60

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

Access
Read-only

Object
starSessSub1ECSRulebase

Object ID
enterprise.8164.1.34.61

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

Access
Read-only
Object
starSessSub1InPlcyGrp

Object ID
enterprise.8164.1.34.62

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

Access
Read-only

Object
starSessSub1OutPlcyGrp

Object ID
enterprise.8164.1.34.63

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

Access
Read-only

Object
starSessSub1DownTrafPolState

Object ID
enterprise.8164.1.34.64

Syntax
INTEGER

Access
Read-only

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

Object
starSessSub1DownCommDataRate

Object ID
enterprise.8164.1.34.65

Description
Downlink committed data rate, in bps. This value is only valid if starSessSub1DownTrafPolState is enabled(1)
**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)

**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)
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
StarQOSTPAction

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

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

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
terprise.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
terprise.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
terprise.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)

Syntax
   StarQOSTPAction

Access
   Read-only

   Object
      starSessSub1UpExceed

Object ID
   enterprise.8164.1.34.78

Description
   Uplink packets exceeded bandwidth parameters

Syntax
   Counter32

Units
   packets

Access
   Read-only

   Object
      starSessSub1UpViolate

Object ID
   enterprise.8164.1.34.79

Description
   Uplink packets violated bandwidth parameters
### Starent Chassis Objects

<table>
<thead>
<tr>
<th>Syntax</th>
<th>Counter32</th>
</tr>
</thead>
<tbody>
<tr>
<td>Units</td>
<td>packets</td>
</tr>
<tr>
<td>Access</td>
<td>Read-only</td>
</tr>
</tbody>
</table>

**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

Syntax
Integer

Access
Read-only

Object
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
starSessSub1ExtInlSrvrProc

Object ID
enterprise.8164.1.34.89

Description
The state of external inline server processing

Syntax
Integer
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Access
Read-only

Object
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
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<th>enterprise.8164.1.34.93</th>
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</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The external inline server egress VLAN tag. This value is only valid if starSessSub1ExtInlSrvrProc is enabled(1)</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Unsigned32</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>Read-only</td>
</tr>
</tbody>
</table>

**Object**

starSessSub1ExtInlSrvrVPNName

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<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The external inline server context (VPN). This value is only valid if starSessSub1ExtInlSrvrProc is enabled(1)</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>

**Object**

starSessSub1RadAcctMode

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<th>enterprise.8164.1.34.95</th>
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</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Radius Accounting Mode</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Integer</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>Read-only</td>
</tr>
</tbody>
</table>

**Object**

starSessSub1InBytesDropped

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<tr>
<th>Object ID</th>
<th>enterprise.8164.1.34.96</th>
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</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The count of incoming bytes dropped for the subscriber, in kilobytes, rounded down (i.e. 1023 bytes = 0 kilobytes)</td>
</tr>
</tbody>
</table>
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

Access
Read-only

Object
starSessSub1PeakBPSTx

Object ID
enterprise.8164.1.34.98

Description
Peak rate from user, in bytes per second.

Syntax
Gauge32

Access
Read-only

Object
starSessSub1PeakBPSRx

Object ID
enterprise.8164.1.34.99

Description
Peak rate to user, in bytes per second.

Syntax
Gauge32

Access
Read-only
Object
  starSessSub1AveBPSTx

Object ID
  enterprise.8164.1.34.100

Description
  Average rate from user, in bytes per second.

Syntax
  Gauge32

Access
  Read-only

Object
  starSessSub1AveBPSRx

Object ID
  enterprise.8164.1.34.101

Description
  Average rate to user, in bytes per second.

Syntax
  Gauge32

Access
  Read-only

Object
  starSessSub1SustBPSTx

Object ID
  enterprise.8164.1.34.102

Description
  Sustained rate from user, in bytes per second.

Syntax
  Gauge32

Access
  Read-only

Object
  starSessSub1SustBPSRx

Object ID
  enterprise.8164.1.34.103
Description
   Sustained rate to user, in bytes per second.

Syntax
   Gauge32

Access
   Read-only

Object
   starSessSub1PeakPPSTx

Object ID
   enterprise.8164.1.34.104

Description
   Peak rate from user, in packets per second.

Syntax
   Gauge32

Access
   Read-only

Object
   starSessSub1PeakPPSRx

Object ID
   enterprise.8164.1.34.105

Description
   Peak rate to user, in packets per second.

Syntax
   Gauge32

Access
   Read-only

Object
   starSessSub1AvePPSTx

Object ID
   enterprise.8164.1.34.106

Description
   Average rate from user, in packets per second.

Syntax
   Gauge32
Access
Read-only

Object
starSessSub1AvePPSRx

Object ID
textual.8164.1.34.107

Description
Average rate to user, in packets per second.

Syntax
Gauge32

Access
Read-only

Object
starSessSub1SustPPSTx

Object ID
textual.8164.1.34.108

Description
Sustained rate from user, in packets per second.

Syntax
Gauge32

Access
Read-only

Object
starSessSub1SustPPSRx

Object ID
textual.8164.1.34.109

Description
Sustained rate to user, in packets per second

Syntax
Gauge32

Access
Read-only

Object
starSessSub1ActivePct
Object ID
enterprise.8164.1.34.110

Description
Link online/active percentage.

Syntax
Integer32(0..100)

Access
Read-only

Object
starSessSub1IPv4BadHdr

Object ID
enterprise.8164.1.34.111

Description
IPv4 Bad Headers

Syntax
Counter32

Access
Read-only

Object
starSessSub1IPv4TtlExceeded

Object ID
enterprise.8164.1.34.112

Description
IPv4 Total Exceeded

Syntax
Counter32

Access
Read-only

Object
starSessSub1IPv4FragSent

Object ID
enterprise.8164.1.34.113

Description
IPv4 Fragments sent
Syntax
Counter32

Access
Read-only

Object
starSessSub1IPv4FragFail

Object ID
enterprise.8164.1.34.114

Description
IPv4 Could Not Fragment errors

Syntax
Counter32

Access
Read-only

Object
starSessSub1IPv4InACLDrop

Object ID
enterprise.8164.1.34.115

Description
IPv4 Input ACL Drops

Syntax
Counter32

Access
Read-only

Object
starSessSub1IPv4OutACLDrop

Object ID
enterprise.8164.1.34.116

Description
IPv5 Output ACL Drops

Syntax
Counter32

Access
Read-only
Object
starSessSub1IPv4InCSSDownDrop

Object ID
enterprise.8164.1.34.117

Description
IPv4 Input CSS Down Drops

Syntax
Counter32

Access
Read-only

Object
starSessSub1IPv4OutCSSDownDrop

Object ID
enterprise.8164.1.34.118

Description
IPv4 Output CSS Down Drops

Syntax
Counter-32

Access
Read-only

Object
starSessSub1IPv4OutXOFFDropPkt

Object ID
enterprise.8164.1.34.119

Description
IPv4 Output XOFF Packets Drop

Syntax
Counter32

Access
Read-only

Object
starSessSub1IPv4OutXOFFDropByte

Object ID
enterprise.8164.1.34.120
Description
IPv4 Output XOFF Bytes Drop

Syntax
Counter-32

Access
Read-only

Object
starSessSub1IPv4SrcViol

Object ID
enterprise.8164.1.34.121

Description
IPv4 Source Violations

Syntax
Counter32

Access
Read-only

Object
starSessSub1IPv4ProxyDNSRedir

Object ID
enterprise.8164.1.34.122

Description
IPv4 Proxy-DNS Redirect

Syntax
Counter32

Access
Read-only

Object
starSessSub1IPv4SrcProxyDNSPThru

Object ID
enterprise.8164.1.34.123

Description
IPv4 Proxy-DNS Pass-Thru

Syntax
Counter32
Access  Read-only

Object  starSessSub1IPv4ProxyDNSDrop

Object ID  enterprise.8164.1.34.124

Description  IPv4 Proxy-DNS Drop

Syntax  Counter32

Access  Read-only

Object  starSessSub1IPv4SrcViolNoAcct

Object ID  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
enterprise.8164.1.34.129

Description
IPv4 ICMP Packets dropped

Syntax
Counter32

Access
Read-only

Object
starSessSub1TunnelType

Object ID
enterprise.8164.1.34.130

Description
Tunnel Type
Syntax  
Integer

Access  
Read-only

Object  
starSessSub1IPSECTunDownDropPkt

Object ID  
enterprise.8164.1.34.131

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

Syntax  
Counter32

Access  
Read-only

Object  
starSessSub1IPSECFlowID

Object ID  
enterprise.8164.1.34.132

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

Syntax  
Integer32

Access  
Read-only

Object  
starSessSub1DormancyTotal

Object ID  
enterprise.8164.1.34.133

Description  
Dormancy total. This value is not valid if the value of starSessSub1AccessType is ggsnpdptypeipv4(4) or ggsnpdptypeppp(5)

Syntax  
Counter32
Access
Read-only

Object
starSessSub1HandoffTotal

Object ID
tertiary.8164.1.34.134

Description
Handoff total. This value is not valid if the value of starSessSub1AccessType is ggsnpdtypeipv4(4) or
ggsnpdtypetpp(5)

Syntax
Counter32

Access
Read-only

Object
starSessSub1AccessFlows

Object ID
tertiary.8164.1.34.135

Description
Access flows

Syntax
Gauge32

Access
Read-only

Object
starSessSub1TFT

Object ID
tertiary.8164.1.34.136

Description
Number of TFTs

Syntax
Gauge32

Access
Read-only
starSessSub1NASPort

Object ID
enterprise.8164.1.34.137

Description
NAS port

Syntax
Integer32

Access
Read-only

starSessSub1CorrID

Object ID
enterprise.8164.1.34.139

Description
ThreeGPP2-correlation-id (C2)

Syntax
Octet String

Access
Read-only

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

starSessSub1IPv4EarlyPDURecv

Object ID
enterprise.8164.1.34.141
Description
IPv4 early PDU received

Syntax
Counter32

Access
Read-only

enterprise.8164.1.starentNwReachServer(35)

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

Object
starNwReachTable

Object ID
enterprise.8164.1.35.1

Description
A table containing Network Reachable Server information

Syntax
SEQUENCE OF StarNwReachEntry

Access
not-accessible

Object
starNwReachEntry

Object ID
enterprise.8164.1.35.1.1

Description
Information for a specific Ntw Reachable Server

Syntax
StarNwReachEntry

Access
not-accessible

Sequence
starNwReachName
starNwReachSrvrAddr

Object
starNwReachName
Object ID
enterprise.8164.1.35.1.1.1

Description
The Name for this Network Reachable Server

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

Access
accessible-for-notify

Object
starNwReachSrvrAddr

Object ID
enterprise.8164.1.35.1.1.2

Description
The IP Address for the Network Reachable Server

Syntax
IpAddress

Access
accessible-for-notify

enterprise.8164.1.starentIPSEC(36)

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

Object
starIPSECCofigContextName

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

Description
The local IP Address for an IPSEC tunnel

Syntax
DisplayString

Access
accessible-for-notify

Object
starIPSECTunRemoteIPAddr

Object ID
enterprise.8164.1.36.4

Description
The local IP Address for an IPSEC tunnel

Syntax
DisplayString

Access
accessible-for-notify

Object
starIPSECPolicyName

Object ID
enterprise.8164.1.36.5

Description
An IPSEC policy name
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Syntax
DisplayString

Access
accessible-for-notify

Object
starIPSECDynPolicyType

Object ID
test(5)

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

Enumeration
unknown(0)
manual(1)

isakmp(2)

subscribertemplate(3)

subscribertunnel(4)

test(5)
dynamic(6)

Object
starIPSECDynPolicyPayloadType

Object ID
test(5)

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

Description
IP address of IPSec remote gateway

Syntax
IpAddress

Access
accessible-for-notify

enterprise.8164.1.starentSIPRoute(37)

Object
starSIPRouteTable

Object ID
enterprise.8164.1.37.1

Description
A table containing SIPRoute related information

Syntax
SEQUENCE OF StarSIPRouteEntry

Access
not-accessible

Object
starSIPRouteEntry

Object ID
enterprise.8164.1.37.1.1
Description
The statistics for a specific SIPRoute service

Syntax
StarSIPRouteEntry

Access
not-accessible

Sequence
starSIPRouteVpnID       Index
starSIPRouteVpnName     Index
starSIPRouteVmgName
starSIPRouteAsName
starSIPRouteDestPartyNum
starSIPRouteReqNum

Object
starSIPRouteVpnID

Object ID
enterprise.8164.1.37.1.1.1

Description
The internal identification of the VPN (context)

Syntax
Gauge32

Access
not-accessible

Object
starSIPRouteVpnName

Object ID
enterprise.8164.1.37.1.1.2

Description
The name of this VPN (context)

Syntax
DisplayString

Access
Read-only

Object
starSIPRouteVmgName

Object ID
enterprise.8164.1.37.1.1.3

Description
The name of this VMG (context)

Syntax
DisplayString

Access
Read-only

Object
starSIPRouteAsName

Object ID
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
enterprise.8164.1.38.1.1

Syntax
StarRPServiceOptionEntry

Access
not-accessible

Sequence
starRPServiceOptionNum
starRPServiceOptionCalls

Object
starRPServiceOptionNum

Object ID
enterprise.8164.1.38.1.1.1

Syntax
Integer32(1..255)
Access
not-accessible

Object
starRPServiceOptionCalls

Object ID
enterprise.8164.1.38.1.1.2

Syntax
Gauge32

Access
Read-only

enterprise.8164.1.starentPCFStats(39)

Object
starPCFStatTable

Object ID
enterprise.8164.1.39.1

Description
A table containing per-PCF statistics.

Syntax
SEQUENCE OF StarPCFStatEntry

Access
not-accessible

Object
starPCFStatEntry

Object ID
enterprise.8164.1.39.1.1

Description
The statistics for a specific PCF.

Syntax
StarPCFStatsEntry

Access
not-accessible

Sequence
starPCFStatVpnID Index
starPCFStatIpAddr
starPCFStatVpnName
starPCFStatRxPkts
starPCFStatTxPkts
starPCFStatRxBytes
starPCFStatTxBytes
starPCFStatTotalSessions
starPCFStatCurrentSessions
starPCFStatCurrentActiveSessions
starPCFStatCurrentDormantSessions
starPCFStatCurrentSIPConnected
starPCFStatCurrentMIPConnected
starPCFStatCurrentPMIPConnected
starPCFStatCurrentL2TPLACConnected
starPCFStatCurrentOtherConnected

Object
starPCFStatVpnID

Object ID
enterprise.8164.1.39.1.1.1

Description
The internal identification of the VPN (context).

Syntax
Gauge32

Access
not-accessible

Object
starPCFStatIpAddr

Object ID
enterprise.8164.1.39.1.1.2

Description
The IP address of the specific PCF.

Syntax
IpAddress

Access
not-accessible
<table>
<thead>
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<th>Object</th>
<th>starPCFStatVpnName</th>
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</thead>
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<td><strong>Object ID</strong></td>
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</tr>
<tr>
<td><strong>Description</strong></td>
<td>The name of the VPN (context).</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>DisplayString</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>Read-only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starPCFStatRxPkts</th>
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</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.39.1.1.4</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Total packets received.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Counter32</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td>Millions</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>Read-only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starPCFStatTxPkts</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.1.39.1.1.5</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>total packets transferred.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Counter32</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td>Millions</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>Read-only</td>
</tr>
</tbody>
</table>
Object
starPCFStatRxBytes

Object ID
terprise.8164.1.39.1.1.6

Description
Total bytes received.

Syntax
Counter32

Units
Megabytes

Access
Read-only

Object
starPCFStatTxBytes

Object ID
terprise.8164.1.39.1.1.7

Description
Total bytes send.

Syntax
Counter32

Units
Megabytes

Access
Read-only

Object
starPCFStatTotalSessions

Object ID
terprise.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

enterprise.8164.1.39.2

Description

A table of per service PCF statistics

Syntax

Gauge32

Access

Read-only

Object

starPCFEntry

Object ID

enterprise.8164.1.39.2.1

Description

The statistics for a specific PCF per service

Syntax

StarPCFEntry

Access

not-accessible

Object

starPCFSvcID
Object ID
enterprise.8164.1.39.2.1.1

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

Syntax
StarShortID

Access
Read-only

Object
cstarPCFIpAddr

Object ID
enterprise.8164.1.39.2.1.2

Description
The PCF IP address

Syntax
IpAddress

Access
Read-only

Object
cstarPCFVpnID

Object ID
enterprise.8164.1.39.2.1.3

Description
The internal identification of the VPN (context)

Syntax
Gauge32

Access
Read-only

Object
cstarPCFVpnName

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
text.8164.1.39.2.1.8

Description
Number of rrq denied.

Syntax
Counter32

Access
Read-only

Object
starPCFRrqDiscarded

Object ID
text.8164.1.39.2.1.9

Description
Number of rrq discarded.

Syntax
Counter32

Access
Read-only

Object
starPCFInitialRrqRcvd

Object ID
text.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
starPCFIntraPDSNActiveHORrqAccepted

Object ID
enterprise.8164.1.39.2.1.12

Description
Intra PDSN active handoff rrq accepted.

Syntax
Counter32

Access
Read-only

Object
starPCFIntraPDSNDormantHORrqAccepted

Object ID
enterprise.8164.1.39.2.1.13

Description
Intra PDSN dormant handoff rrq accepted.

Syntax
Counter32

Access
Read-only

Object
starPCFInterPDSNHORrqAccepted

Object ID
enterprise.8164.1.39.2.1.14

Description
Inter PDSN handoff rrq accepted.
Syntax
Counter32

Access
Read-only

Object
starPCFInitialRrqDenied

Object ID
enterprise.8164.1.39.2.1.15

Description
Initial rrq denied.

Syntax
Counter32

Access
Read-only

Object
starPCFInitialRrqDiscarded

Object ID
enterprise.8164.1.39.2.1.16

Description
Initial rrq discarded.

Syntax
Counter32

Access
Read-only

Object
starPCFRenewRrqRcvd

Object ID
enterprise.8164.1.39.2.1.17

Description
Renew rrq received.
Object
starPCFRenewRrqAccepted

Object ID
enterprise.8164.1.39.2.1.18

Description
Renew rq accepted.

Syntax
Counter32

Access
Read-only

Object
starPCFRenewActiveRrqAccepted

Object ID
enterprise.8164.1.39.2.1.19

Description
Renew active rq accepted.

Syntax
Counter32

Access
Read-only

Object
starPCFRenewDormantRrqAccepted

Object ID
enterprise.8164.1.39.2.1.20

Description
Renew dormant rq accepted.

Syntax
Counter32

Access
Read-only

Object
starPCFRenewRrqDenied

Object ID
enterprise.8164.1.39.2.1.21
Description
Renew rq denied.

Syntax
Counter32

Access
Read-only

Object
starPCFRenewRrqDiscarded

Object ID
enterprise.8164.1.39.2.1.22

Description
Renew rq discarded.

Syntax
Counter32

Access
Read-only

Object
starPCFDeregRrqRcvd

Object ID
enterprise.8164.1.39.2.1.23

Description
Deregistration rq received.

Syntax
Counter32

Access
Read-only

Object
starPCFDeregRrqAccepted

Object ID
enterprise.8164.1.39.2.1.24

Description
Deregistration rq accepted.
Access
Read-only

Object
starPCFDeregDormantRrqAccepted

Object ID
enterprise.8164.1.39.2.1.25

Description
Deregistration dormant rq accepted.

Syntax
Counter32

Access
Read-only

Object
starPCFDeregRrqDenied

Object ID
enterprise.8164.1.39.2.1.26

Description
Deregistration rq denied.

Syntax
Counter32

Access
Read-only

Object
starPCFDeregRrqDiscarded

Object ID
enterprise.8164.1.39.2.1.27

Description
Deregistration rq discarded.

Syntax
Counter32

Access
Read-only

Object
starPCFIntraPDSNAcactiveAnidHORrqAccepted
Object ID
enterprise.8164.1.39.2.1.28

Description
Intra PDSN active anid handoff rrq accepted.

Syntax
Counter32

Access
Read-only

Object
starPCFIntraPDSNDormantAnidHORrqAccepted

Object ID
enterprise.8164.1.39.2.1.29

Description
Intra PDSN dormant anidhandoff rrq 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.
<table>
<thead>
<tr>
<th>Object</th>
<th>Description</th>
<th>Syntax</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>starPCFDeniedAdmProh</td>
<td>Denied insufficient resources.</td>
<td>Counter32</td>
<td>Read-only</td>
</tr>
<tr>
<td>starPCFDeniedMobNodeAuthFail</td>
<td>Denied mobile node authentication failure.</td>
<td>Counter32</td>
<td>Read-only</td>
</tr>
<tr>
<td>starPCFDeniedIdentMismatch</td>
<td>Denied identification mismatch.</td>
<td>Counter32</td>
<td>Read-only</td>
</tr>
</tbody>
</table>
Object

starPCFDeniedPoorFormedReq

Object ID
enterprise.8164.1.39.2.1.35

Description
Denied poor formed request.

Syntax
Counter32

Access
Read-only

Object

starPCFDeniedUnknownPDSNAddr

Object ID
enterprise.8164.1.39.2.1.36

Description
Denied unknown PDSN address.

Syntax
Counter32

Access
Read-only

Object

starPCFDeniedRevTunnelUnavail

Object ID
enterprise.8164.1.39.2.1.37

Description
Denied rev tunnel unavailable.

Syntax
Counter32

Access
Read-only

Object

starPCFDeniedRevTunnelRequire

Object ID
enterprise.8164.1.39.2.1.38
**Description**  
Denied rev tunnel required.

**Syntax**  
Counter32

**Access**  
Read-only

**Object**  
starPCFDeniedUnrecogVendorId

**Object ID**  
enterprise.8164.1.39.2.1.39

**Description**  
Denied unrecognized vendor id.

**Syntax**  
Counter32

**Access**  
Read-only

**Object**  
starPCFDeniedSessionClosed

**Object ID**  
enterprise.8164.1.39.2.1.40

**Description**  
Denied session closed.

**Syntax**  
Counter32

**Access**  
Read-only

**Object**  
starPCFDeniedBsnSessionInfoUnavail

**Object ID**  
enterprise.8164.1.39.2.1.41

**Description**  
Denied bsn session information unavailable.
Access
Read-only

Object
starPCFRegUpdTransmitted

Object ID
enterprise.8164.1.39.2.1.42

Description
Registration updates transmitted.

Syntax
Counter32

Access
Read-only

Object
starPCFRegUpdAccepted

Object ID
enterprise.8164.1.39.2.1.43

Description
Registration updates accepted.

Syntax
Counter32

Access
Read-only

Object
starPCFRegUpdateRpLifetimeExpiry

Object ID
enterprise.8164.1.39.2.1.44

Description
Registration update rp life time expiry.

Syntax
Counter32

Access
Read-only

Object
starPCFRegUpdateUpperLayerInitiated
Object ID
enterprise.8164.1.39.2.1.45

Description
Registration update upper layer initiated

Syntax
Counter32

Access
Read-only

Object
starPCFRegUpdateOtherReason

Object ID
enterprise.8164.1.39.2.1.46

Description
Registration update other reason.

Syntax
Counter32

Access
Read-only

Object
starPCFRegUpdateHORelease

Object ID
enterprise.8164.1.39.2.1.47

Description
Registration update handoff release.

Syntax
Counter32

Access
Read-only

Object
starPCFRegUpdateSessmgrDied

Object ID
enterprise.8164.1.39.2.1.48

Description
Registration update sessmgr denied.
Syntax  
Counter32

Access  
Read-only

Object
starPCFAuxA10ConnectionsSetup

Object ID
enterprise.8164.1.39.2.1.49

Description
Aux a10 connections setup.

Syntax  
Counter32

Access  
Read-only

Object
starPCFSessionsDenied

Object ID
enterprise.8164.1.39.2.1.50

Description
Number of sessions denied.

Syntax  
Counter32

Access  
Read-only

Object
starPCFSessionsInit

Object ID
enterprise.8164.1.39.2.1.51

Description
Number of sessions initiated.
Object

starPCFSessionsReneg

Object ID

enterprise.8164.1.39.2.1.52

Description

Number of PCF sessions renegotiated.

Syntax

Counter32

Access

Read-only

Object

starPCFDiscLcpRemote

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.

**Syntax**
Counter32

**Access**
Read-only

**Object**
starPCFDiscMaxIpv6cpRetr

**Object ID**
enterprise.8164.1.39.2.1.57

**Description**
Disconnect reason max ipv6cp retries.

**Syntax**
Counter32

**Access**
Read-only

**Object**
starPCFDiscMaxLcpRetr

**Object ID**
enterprise.8164.1.39.2.1.58

**Description**
Disconnect reason max lcp retries.

**Syntax**
Counter32
**Access**
Read-only

**Object**
starPCFDiscAuthFail

**Object ID**
enterprise.8164.1.39.2.1.59

**Description**
Disconnect reason authentication failure.

**Syntax**
Counter32

**Access**
Read-only

**Object**
starPCFDiscSessSetupTimeout

**Object ID**
enterprise.8164.1.39.2.1.60

**Description**
Disconnect reason session setup timeout.

**Syntax**
Counter32

**Access**
Read-only

**Object**
starPCFDiscFlowAddFail

**Object ID**
enterprise.8164.1.39.2.1.61

**Description**
Disconnect reason flow add failure.

**Syntax**
Counter32

**Access**
Read-only

**Object**
starPCFDiscInvDestContext
Object ID
enterprise.8164.1.39.2.1.62

Description
Disconnect reason invalid destination context.

Syntax
Counter32

Access
Read-only

Object
starPCFDiscLcpOptFail

Object ID
enterprise.8164.1.39.2.1.63

Description
Disconnect reason lcp option failure.

Syntax
Counter32

Access
Read-only

Object
starPCFDiscLcpOptFail

Object ID
enterprise.8164.1.39.2.1.64

Description
Disconnect reason lcp option failure.

Syntax
Counter32

Access
Read-only

Object
starPCFDiscLpv6cpOptFail

Object ID
enterprise.8164.1.39.2.1.65

Description
Disconnect reason ipv6cp option failure.
Syntax
Counter32

Access
Read-only

Object
starPCFDiscNoRemIpAddr

Object ID
enterprise.8164.1.39.2.1.66

Description
Disconnect reason no ip remote ip address.

Syntax
Counter32

Access
Read-only

Object
starPCFDiscDetectionFail

Object ID
enterprise.8164.1.39.2.1.67

Description
Disconnect reason detection failure.

Syntax
Counter32

Access
Read-only

Object
starPCFDiscMisc

Object ID
enterprise.8164.1.39.2.1.68

Description
Disconnect reason miscellaneous.
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
starPCFSessionsRelsese

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
Starent Chassis Objects

**enterprise.8164.1.39.2.1.73**

**Description**
Current reva sessions.

**Syntax**
Counter32

**Access**
Read-only

**Object**
starPCFRevaSessionsSetup

**Object ID**
enterprise.8164.1.39.2.1.73

**Description**
Reva session setup.

**Syntax**
Counter32

**Access**
Read-only

**Object**
starPCFRevaSessionsRelasee

**Object ID**
enterprise.8164.1.39.2.1.74

**Description**
Reva session release

**Syntax**
Counter32

**Access**
Read-only

**enterprise.8164.1.starentSIPRouteServer(40)**

**Object**
starSIPRouteServerTable

**Object ID**
enterprise.8164.1.40.1

**Description**
A table containing SIPRouteServer related information
Syntax
SEQUENCE OF StarSIPRouteServerEntry

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
starSIPRouteServerVpnName
starSIPRouteServerVmgName
starSIPRouteServerAsName
starSIPRouteServerIpAddr

Object
starSIPRouteServerVpnID

Object ID
enterprise.8164.1.40.1.1.1

Description
The internal identification of the VPN (context).

Syntax
Gauge32

Access
not-accessible

Object
starSIPRouteServerVpnName

Object ID
enterprise.8164.1.40.1.1.2
Description
The name of the VPN (context).

Syntax
DisplayString

Access
Read-only

Object
starSIPRouteServerVmgName

Object ID
enterprise.8164.1.40.1.1.3

Description
The name of the VMG (context).

Syntax
DisplayString

Access
Read-only

Object
starSIPRouteServerAsName

Object ID
enterprise.8164.1.40.1.1.4

Description
The name of the AS (context).

Syntax
DisplayString

Access
Read-only

Object
starSIPRouteServerIpAddr

Object ID
enterprise.8164.1.40.1.1.5

Description
The SIP Route Server IP address.

Syntax
IP Address in dotted decimal notation
Access
Read-only

enterprise.8164.1.starentVIMService(41)

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

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
timeout.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
timeout.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.8164.1.41.1.1.3

Description
The VIM Instance ID

Syntax
Unsigned32

Access
accessible-for-notify

Object
starVIMServiceFMDMaxCallRate

Object ID
enterprise.8164.1.41.1.1.4

Description
Configured FMD max call rate

Syntax
Unsigned32
Units
Calls per Minute

Access
Read-only

Object
starVIMServiceFMDContinuousLoadCount

Object ID
enterprise.8164.1.41.1.1.5

Description
Configured FMD continuous load count

Syntax
Unsigned32

Access
Read-only

enterprise.8164.1.starentGSS(42)

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

Object
starGSSClusterName

Object ID
enterprise.8164.1.42.1

Description
The name of the Storage Server Cluster

Syntax
DisplayString

Access
accessible-for-notify

Object
starGSSClusterNodeName

Object ID
enterprise.8164.1.42.2

Description
The name of a node within a Storage Server Cluster
Syntax
DisplayString

Access
accessible-for-notify

Object
cstarGSSClusterRgName

Object ID
enterprise.8164.1.42.3

Description
The name of the Storage Server Cluster Resource Group

Syntax
DisplayString

Access
accessible-for-notify

Object
cstarGSSClusterRsName

Object ID
enterprise.8164.1.42.4

Description
The name of the Storage Server Cluster Resource

Syntax
DisplayString

Access
accessible-for-notify

Object
cstarGSSClusterNodeState

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

Object  
starPDIFSysSessCurrActive

Object ID  
enterprise.8164.1.43.4

Description  
The number of currently active PDIF sessions for this chassis

Syntax  
Gauge32

Access  
Read-only

Object  
starPDIFSysSessCurrDormant

Object ID  
enterprise.8164.1.43.5

Description  
The number of currently dormant PDIF sessions for this chassis

Syntax  
Gauge32

Access  
Read-only

Object  
starPDIFSysSessTtlSetup

Object ID  
enterprise.8164.1.43.6
Description
The cumulative total number of PDIF sessions that have been setup.

Syntax
Counter32

Access
Read-only

Object
starPDIFSysChildSACurrent

Object ID
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
starPDIFStatus   INTEGER
starPDIFSessCurrent Gauge32
starPDIFSessRemain Gauge32
starPDIFSessCurrentActive Gauge32
starPDIFSessCurrentDormant Gauge32
starPDIFSessCurrentIpv6Active Gauge32
starPDIFSessCurrentIpv6Dormant Gauge32
starPDIFSessCurrentIpv4Active Gauge32
starPDIFSessCurrentIpv4Dormant Gauge32
starPDIFBindIpAddress IpAddress
starPDIFBindIpPort  Integer32
starPDIFBindSlot    Integer32
starPDIFBindPort    Integer32

Object
starPDIFSvcID

Object ID
enterprise.8164.1.44.1.1.1

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

Syntax
StarShortID

Access
not-accessible

Object
starPDIFVpnID
Object ID
enterprise.8164.1.44.1.1.2

Description
The internal VPN (context) ID.

Syntax
Gauge32

Access
Read-only

Object
starPDIFVpnName

Object ID
enterprise.8164.1.44.1.1.3

Description
The VPN (context) name.

Syntax
DisplayString

Access
Read-only

Object
starPDIFServName

Object ID
enterprise.8164.1.44.1.1.4

Description
The name of this service

Syntax
DisplayString

Access
Read-only

Object
starPDIFStatus

Object ID
enterprise.8164.1.44.1.1.5
Description
The state of this PDIF service. The value unknown(0) indicates that the system is unable to determine the status; inservice(1) indicates that the service is available for processing sessions; outofservice(2) indicates that the service is configured, but unavailable, either due to operator action or due to a fault.

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

Access
Read-only

Object
starPDIFSessCurrent

Object ID
enterprise.8164.1.44.1.1.6

Description
The number of current sessions for this PDIF service.

Syntax
Gauge32

Access
Read-only

Object
starPDIFSessRemain

Object ID
enterprise.8164.1.44.1.1.7

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

Syntax
Gauge32

Access
Read-only

Object
starPDIFSessCurrentActive

Object ID
enterprise.8164.1.44.1.1.8

Description
The number of currently active sessions for this PDIF service

Syntax
Gauge32

Access
Read-only

Object
starPDIFSessCurrentDormant

Object ID
enterprise.8164.1.44.1.1.9

Description
The number of currently dormant sessions for this PDIF service

Syntax
Gauge32

Access
Read-only

Object
starPDIFSessCurrentIpv6Active

Object ID
enterprise.8164.1.44.1.1.10

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

Syntax
Gauge32

Access
Read-only

Object
starPDIFSessCurrentIpv6Dormant

Object ID
enterprise.8164.1.44.1.1.11
Description
The number of currently dormant IPv6 sessions for this PDIF service.

Syntax
Gauge32

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.

Syntax
Gauge32

Access
Read-only

Object
starPDIFSessCurrentIpv4Dormant

Object ID
enterprise.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
enterprise.8164.1.44.1.1.14

Description
The bind IP address for this PDIF service

Syntax
IpAddress
Access
Read-only

Object
starPDIFBindIpPort

Object ID
enterprise.8164.1.44.1.1.15

Description
The bind IP port for this PDIF service

Syntax
Integer32

Access
Read-only

Object
starPDIFBindSlot

Object ID
enterprise.8164.1.44.1.1.16

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

Syntax
Integer32

Access
Read-only

Object
starPDIFBindPort

Object ID
enterprise.8164.1.44.1.1.17

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

Syntax
SYNTAX Integer32

Access
Read-only
enterprise.8164.1.starentSGNSerService(45)

Object
starSGNSerTable

Object ID
enterprise.8164.1.45.1

Description
A table containing SGSN related information.

Syntax
SEQUENCE OF StarSGNSerEntry

Access
not-accessible

Object
starSGNSerEntry

Object ID
enterprise.8164.1.45.1.1

Description
The statistics for a specific SGSN service.

Syntax
StarSGNSerEntry

Access
not-accessible

Sequence
starSGNSerVpnID Gauge32
starSGNSerSvcID Gauge32
starSessSGSNVpnName DisplayString
starSessSGNServName DisplayString
starLinkM3UAS7rdId Gauge32
starSS7Pc Gauge32
starLinkM3UAAPsId Gauge32

Object
starSGNSerVpnID

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
tenterprise.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
tenterprise.8164.1.45.1.1.3

Description
The name of this VPN (context).

Syntax
DisplayString

Access
read-only

Object
starSessSGSNServName

Object ID
tenterprise.8164.1.45.1.1.4

Description
The name of this service.

Syntax
DisplayString
Access
read-only

Object
starSessSGSNMcc

Object ID
enterprise.8164.1.45.1.1.5

Description
Mobile country code

Syntax
Octet String (size1..3))

Access
Read-only

Object
starSessSGSNMnc

Object ID
enterprise.8164.1.45.1.1.6

Description
Mobile network code

Syntax
Octet String (size1..3))

Access
Read-only

Object
starSessSGSNRncId

Object ID
enterprise.8164.1.45.1.1.7

Description
The RNC id

Syntax
Gauge32

Access
Read-only

Object
starSessSGSNHlrNum
Object ID
enterprise.8164.1.45.1.1.8

Description
The HLR id

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

Access
Read-only

enterprise.8164.1.starentSS7Rd(46)

Object
starSS7RdTable

Object ID
enterprise.8164.1.46.1

Description
Table containing SS7Rd-related information

Syntax
Sequence of StarSS7RdEntry

Access
not-accessible

Object
starSS7RdEntry

Object ID
enterprise.8164.1.46.1.1

Description
The statistics for a specific ss7rd

Syntax
StarSS7RdEntry

Access
not-accessible

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

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

**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
MIB Textual Conventions

## Starent Chassis Objects

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<th>Read-only</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object</strong></td>
<td>starSS7SCTPSelfAddr</td>
</tr>
</tbody>
</table>

### Object ID
enterprise.8164.1.46.1.1.7

### Description
Self-End-Point IP Address

### Syntax
IpAddress

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<tbody>
<tr>
<td><strong>Object</strong></td>
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</tr>
</tbody>
</table>

### Object ID
enterprise.8164.1.46.1.1.8

### Description
Peer Node IP Address

### Syntax
IpAddress

<table>
<thead>
<tr>
<th>Access</th>
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</thead>
<tbody>
<tr>
<td><strong>Object</strong></td>
<td>starSS7SCTPSelfPort</td>
</tr>
</tbody>
</table>

### Object ID
enterprise.8164.1.46.1.1.9

### Description
Self end-point sctp port

### Syntax
Gauge32

<table>
<thead>
<tr>
<th>Access</th>
<th>Read-Only</th>
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</thead>
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<tr>
<td><strong>Object</strong></td>
<td>starSS7SCTPPeerPort</td>
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<td>Object ID</td>
<td>enterprise.8164.1.46.1.1.10</td>
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<tr>
<td>-------------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>Description</td>
<td>Peer end-point SCTP Port</td>
</tr>
<tr>
<td>Syntax</td>
<td>Gauge32</td>
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<td>Access</td>
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<td></td>
<td>Object</td>
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<tr>
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<tbody>
<tr>
<td>Description</td>
<td>Congestion Level Value</td>
</tr>
<tr>
<td>Syntax</td>
<td>Gauge32</td>
</tr>
<tr>
<td>Access</td>
<td>Read-Only</td>
</tr>
<tr>
<td></td>
<td>Object</td>
</tr>
<tr>
<td></td>
<td>starSS7LocalCong</td>
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<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.1.46.1.1.12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Local Congestion Value</td>
</tr>
<tr>
<td>Syntax</td>
<td>Gauge32</td>
</tr>
<tr>
<td>Access</td>
<td>Read-Only</td>
</tr>
<tr>
<td></td>
<td>Object</td>
</tr>
<tr>
<td></td>
<td>starSS7CauseString</td>
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<table>
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<tr>
<th>Object ID</th>
<th>enterprise.8164.1.46.1.1.13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Cause string for failure</td>
</tr>
</tbody>
</table>
Starent Chassis Objects

MIB Textual Conventions

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
starSccpNwId Gauge32
starSccpSsn Gauge32

Object
starSccpNwId

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

Syntax
Gauge32

Access
Read-only

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
Starent Chassis Objects

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Access
not-accessible

Sequence
starIPMServerVpnID Gauge32
starIPMServerAddr IPAddress
starIPMServerVpnName DisplayString

Object
starIPMServerEntry

Object ID
enterprise.8164.1.49.1.1

Description
Information about a particular IPMS Server.

Syntax
Sequence of StarIPMServerEntry

Access
not-accessible

Sequence
starIPMServerVpnID Gauge32
starIPMServerAddr Address
starIPMServerVpnName DisplayString

Object
starIPMServerVpnID

Object ID
enterprise.8164.1.49.1.1.1

Description
The internal identification of the VPN (context)

Syntax
Gauge32

Access
not-accessible

Object
starIPMServerAddr

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
tenterprise.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
tenterprise.8164.1.50.1

Description
Table containing information on X.509 certificates

Syntax
Sequence of StarCertEntry

Access
not-accessible

Object
starCertEntry

Object ID
tenterprise.8164.1.50.1.1

Description
Information on a particular X.509 Certificate
Syntax
StarCertEntry

Access
not-accessible

Sequence
starCertSerialNumber    Display-String
starCertExpireTime      DateAndTime
starCertIssuer          Display-String

Object
starCertSerialNumber

Object ID
enterprise.8164.1.50.1.1.1

Description
Certificate serial number

Syntax
DisplayString

Access
accessible-for-notify

Object
starCertExpireTime

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
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
table.8164.1.51.1.1.2

Description
The application that owns this file

Syntax
Integer

Access
Read-only

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

enterprise.8164.1.starentFTPServ(52)
The objects in this table are not accessible via SNMP. They are intended for use within traps.

Object
starFTPServTable

Object ID
enterprise.8164.1.52.1

Description
A table of FTP servers configured

Syntax
SEQUENCE OF StarFTPServEntry

Access
not-accessible
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)
**Object**

starSDHPort

**Object ID**

enterprise.8164.1.54.1.1.2

**Description**

The port number within this slot

**Syntax**

Integer32(1..8)

**Access**

accessible-for-notify

---

**Object**

starSDHOperState

**Object ID**

enterprise.8164.1.54.1.1.3

**Description**

A bitmask indicating the state of SDH layer SCT.

- 0x0000  Good
- 0x0001  lais
- 0x0002  linesd
- 0x0004  linesf
- 0x0010  lof
- 0x0020  los
- 0x0040  msrdi

**Syntax**

Integer32

**Access**

Read-Only

---

**enterprise.8164.1.starentSDHPath(55)**

**Object**

starSDHPathTable
Object ID
enterprise.8164.1.55.1

Description
Table for SDH Path data

Syntax
SEQUENCE OF starSDHPathEntry

Access
Not Accessible

Object
starSDHPathEntry

Object ID
enterprise.8164.1.55.1.1

Description
Table statistical data

Syntax
starSDHPathEntry

Access
Not Accessible

Sequence
starSDHPathSlot Integer32
starSDHPathPort Integer32
starSDHPathNum Integer32
starSDHPathOperState Integer32

Object
starSDHPathSlot

Object ID
enterprise.8164.1.55.1.1.1

Description
Slot number for this port

Syntax
Integer32(17..48)

Access
accessible-for-notify

Object
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 hopathsd
0x0002 hopathsf
0x0020 ppdi
0x0040 prdi
0x0080 perdi
0x0100 perdival
0x0200 perdivaloff
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SNMP MIB Reference, StarOS Release 17

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

Object
starE1TribPath

Object ID
enterprise.8164.1.56.1.1.3

Description
Not shown

Syntax
Integer32(1..3)

Access
accessible-for-notify

Object
starE1TribTug2

Object ID
enterprise.8164.1.56.1.1.4
Description
Not shown

Syntax
Integer32(1..7)

Access
accessible-for-notify

Object
starE1TribTu12

Object ID
enterprise.8164.1.56.1.1.5

Description
Not shown

Syntax
Integer32(1..3)

Access
accessible-for-notify

Object
starE1TribOperStateLOP

Object ID
enterprise.8164.1.56.1.1.6

Description
A bitmask indicating the 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

Object
starE1TribOperState

Object ID
enterprise.8164.1.56.1.1.7

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

Syntax
Integer32

Access
Read Only

enterprise.8164.1.starentGPRSLink(57)

Object
cstarGPRSLinkTable

Object ID
enterprise.8164.1.57.1

Description
A table containing GPRS Service Link related information.

Syntax
SEQUENCE of StarGPRSLinkEntry

Access
Not Accessible
starGPRSLinkEntry

Object ID
enterprise.8164.1.57.1.1

Description
The link statistics for a specific GPRS service.

Syntax
StarGPRSLinkEntry

Sequence
starGPRSNei   Gauge32,
starGPRSNSvci Gauge32,
starGPRSBvci  Gauge32,

Object
starGPRSNei

Object ID
enterprise.8164.1.57.1.1.1

Description
Network Service Entity Identifier

Syntax
Gauge32

Access
accessible-for-notify

Object
starGPRSNei

Object ID
enterprise.8164.1.57.1.1.2

Description
Network Service Virtual Circuit Identifier

Syntax
Gauge32

Access
Read-Only

Object
starGPRSBvci
Object ID

enterprise.8164.1.57.1.1.3

Description

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

Syntax

Gauge32

Access

Read-Only

enterprise.8164.1.starentFractE1Trib(58)

Object

starFractE1TribTable

Object ID

enterprise.8164.1.58.1

Description

A table...

Syntax

SEQUENCE of StarFractTribEntry

Access

Not Accessible

Object

starFractE1TribEntry

Object ID

enterprise.8164.1.58.1.1

Description

Information about a specific Entry

Syntax

starFractE1TribEntry

Sequence

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

Object
starFractE1TribSlot

Object ID
enterprise.8164.1.58.1.1.1

Description
Slot number for this port

Syntax
Integer32(17..48)

Access
accessible-for-notify

Object
starFractE1TribPort

Object ID
enterprise.8164.1.58.1.1.2

Description
Port number within slot

Syntax
Integer32(1..8)

Access
accessible-for-notify

Object
starFractE1TribPath

Object ID
enterprise.8164.1.58.1.1.3

Description
Not shown

Syntax
Integer32(1..3)

Access
accessible-for-notify

Object
starFractE1TribTug2
Object ID
enterprise.8164.1.58.1.1.4

Description
Not shown

Syntax
Integer32(1..84)

Access
accessible-for-notify

Object
starFractE1TribTu12

Object ID
enterprise.8164.1.58.1.1.5

Description
Not Given

Syntax
Integer32(1..3)

Access
accessible-for-notify

Object
starFractE1TribBundNum

Object ID
enterprise.8164.1.58.1.1.6

Description
Not Given

Syntax
Integer32(0..31)

Access
Not Accessible

Object
starFractE1TribTimeslots

Object ID
enterprise.8164.1.58.1.1.7

Description
Not Given
enterprise.8164.1.starentStorage(59)

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

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

Sequence

<table>
<thead>
<tr>
<th>starStorageSlot Integer32, starStorageName DisplayString, starStorageDeviceType INTEGER</th>
<th>starStorageSlot</th>
</tr>
</thead>
</table>

Object

starStorageSlot
Object ID
enterprise.8164.1.59.1.1.1

Description
The slot number of the card holding this storage device

Syntax
Integer32(1..16)

Access
accessible-for-notify

Object
starStorageName

Object ID
enterprise.8164.1.59.1.1.2

Description
The name of the storage device

Syntax
DisplayString

Access
accessible-for-notify

Object
starStorageDeviceType

Object ID
enterprise.8164.1.59.1.1.3

Description
The storage device type. A value of independent(1) means that the device can be accessed as a standalone device, and is not part of a raid array. A value of raid(2) means that this device is a raid array. A value of raidmember(3) means the device is part of a raid array, and thus cannot be read/written to outside of the raid array

Syntax
INTEGER

Access
Not Accessible

Enumeration
unknown(0),
independent(1),
raid(2),
raidmember(3)
enterprise.8164.1.FNGSys(60)

Object

starFNGSysStatus

Object ID
8164.1.60.1

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

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

Access
read-only

Object

starFNGSysNumService

Object ID
8164.1.60.2

Description
The number of FNG services configured

Syntax
Gauge32

Access
read-only

Object

starFNGSysSessCurrent

Object ID
8164.1.60.3

Description
The number of current FNG sessions for this chassis
Syntax
  Gauge32

Access
  read-only

Object
  starFNGSysSessCurrActive

Object ID
  8164.1.60.4

Description
  The number of currently active FNG sessions for this chassis

Syntax
  current

Access
  read-only

Object
  starFNGSysSessCurrDormant

Object ID
  8164.1.60.5

Description
  The number of currently dormant FNG sessions for this chassis

Syntax
  Gauge32

Access
  read-only

Object
  starFNGSysSessTtlSetup

Object ID
  8164.1.60.6

Description
  The cumulative total number of FNG sessions that has been setup

Syntax
  Counter32

Access
  read-only
Object
starFNGSysChildSACurrent

Object ID
8164.1.60.7

Description
The number of current FNG child SAs for this chassis

Syntax
Gauge32

Access
read-only

enterprise.8164.1.starentFNGService(61)

Object
starFNGTable

Object ID
8164.1.61.1

Description
A table of per-service FNG information

Syntax
SEQUENCE OF StarFNGEntry

Access
not-accessible

Object
starFNGEntry

Object ID
8164.1.61.1.1

Description
The information for a FNG service

Syntax
StarFNGEntry

Access
not-accessible

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

---

**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
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
**MIB Textual Conventions**

- **Starent Chassis Objects**

  **Object ID**
  8164.1.61.1.1.15

  **Description**
  The bind IP port for this FNG service.

  **Syntax**
  Integer32

  **Access**
  read-only

  **Object**
  starFNGBindSlot

  **Object ID**
  8164.1.61.1.1.16

  **Description**
  The physical slot number for the physical port which holds the interface bound to the starFNGBindIpAddress address.

  **Syntax**
  Integer32

  **Access**
  read-only

  **Object**
  starFNGBindPort

  **Object ID**
  8164.1.61.1.1.17

  **Description**
  The physical port number for the physical port which holds the interface bound to the starFNGBindIpAddress address.

  **Syntax**
  Integer32

  **Access**
  read-only

  **Object**
  starPDGSysStatus

  **Object ID**
  8164.1.62.1

  **enterprise.8164.1.starentPDGSys(62)**
Description
The overall status of the chassis as a PDG service. A value of noservice(1) means that the chassis is not configured/licensed for PDG; active(2) indicates that at least one PDG service is available for processing sessions; temporary(3) indicates that PDG is running in a temporary capacity, such as running in standby mode during an online upgrade; outofservice(4) indicates that no PDG service is currently active, but one or more PDG services are configured.

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

Access
read-only

Object
starPDGSysNumService

Object ID
8164.1.62.2

Description
The number of PDG services configured

Syntax
Unsigned32

Access
read-only

Units
Services

Object
starPDGSysSessCurrent

Object ID
8164.1.62.3

Description
The number of current PDG sessions for this chassis

Syntax
Gauge32

Access
read-only
Object
starPDGSysSessCurrActive

Object ID
8164.1.62.4

Description
The number of currently active PDG sessions for this chassis.

Syntax
Gauge32

Access
read-only

Object
starPDGSysSessCurrDormant

Object ID
8164.1.62.5

Description
The number of currently dormant PDG sessions for this chassis

Syntax
Gauge32

Access
read-only

Object
starPDGSysSessTtlSetup

Object ID
8164.1.62.6

Description
The cumulative total number of PDG sessions that has been setup

Syntax
Counter32

Access
read-only

Object
starPDGSysChildSACurrent

Object ID
8164.1.62.7

SNMP MIB Reference, StarOS Release 17
Description
The number of current PDG child SAs for this chassis

Syntax
Gauge32

Access
read-only

enterprise.8164.1.starentPDGService(63)

Object
starPDGTable

Object ID
8164.1.63.1

Description
A table of per-service PDG information

Syntax
SEQUENCE OF StarPDGEntry

Access
not-accessible

Object
starPDGEntry

Object ID
8164.1.63.1.1

Description
The information for a PDG service

Syntax
StarPDGEntry

Access
not-accessible

Sequence
starPDGSvcID
starPDGVpnID
starPDGVpnName
starPDGServName
starPDGStatus
starPDGSessCurrent
starPDGSessRemain
starPDGSessCurrentActive
starPDGSessCurrentDormant
starPDGSessCurrentIpv6Active
starPDGSessCurrentIpv6Dormant
starPDGSessCurrentIpv4Active
starPDGSessCurrentIpv4Dormant
starPDGBindIpAddress
starPDGBindIpPort

Object 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
test-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
<table>
<thead>
<tr>
<th>Object ID</th>
<th>Description</th>
<th>Syntax</th>
<th>Access</th>
<th>Object</th>
</tr>
</thead>
<tbody>
<tr>
<td>8164.1.63.1.1.9</td>
<td>The number of currently dormant sessions for this PDG service</td>
<td>Gauge32</td>
<td>read-only</td>
<td>starPDGSessCurrentIpv6Active</td>
</tr>
<tr>
<td>8164.1.63.1.1.10</td>
<td>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.</td>
<td>Gauge32</td>
<td>read-only</td>
<td>starPDGSessCurrentIpv6Dormant</td>
</tr>
<tr>
<td>8164.1.63.1.1.11</td>
<td>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.</td>
<td>Gauge32</td>
<td>read-only</td>
<td>starPDGSessCurrentIpv4Active</td>
</tr>
<tr>
<td>8164.1.63.1.1.12</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Description
The number of currently active IPv4 sessions for this PDG service. Note that all PDG sessions are currently identified as 'active', and the value for starPDGSessCurrentIPv4Dormant will always be zero.

Syntax
Gauge32

Access
read-only

Object
starPDGSessCurrentIPv4Dormant

Object ID
8164.1.63.1.1.13

Description
The number of currently dormant IPv4 sessions for this PDG service. Note that all PDG sessions are currently identified as 'active', so the value for starPDGSessCurrentIPv4Dormant will always be zero.

Syntax
Gauge32

Access
read-only

Object
starPDGBindIpAddress

Object ID
8164.1.63.1.1.14

Description
The bind IP address for this PDG service

Syntax
IpAddress

Access
read-only

Object
starPDGBindIpPort

Object ID
8164.1.63.1.1.15

Description
The bind IP port for this PDG service
Syntax
   Integer32

Access
   read-only

Object
   starPDGBindSlot

Object ID
   8164.1.63.1.1.16

Description
   The bind IP port for this PDG service

Syntax
   Integer32

Access
   read-only

Object
   starPDGBindPort

Object ID
   8164.1.63.1.1.17

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

Syntax
   Integer32

Access
   read-only

**enterprise.8164.1.starentIPPoolGroup(64)**

Object
   starIPPoolGroupTable

Object ID
   8164.1.64.1

Description
   A table containing IP Pool Group information

Syntax
   SEQUENCE OF StarIPPoolGroupEntry
Access
not-accessible

Object
starIPPoolGroupEntry

Object ID
8164.1.64.1.1

Description
Information for a specific IP Pool Group

Syntax
StarIPPoolGroupEntry

Access
not-accessible

Object
starIPPoolGroupVpnID

Object ID
8164.1.63.1.1.1

Description
The context ID for this pool group

Syntax
Gauge32

Access
not-accessible

Object
starIPPoolGroupID

Object ID
8164.1.64.1.1.2

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

Syntax
StarMediumID

Access
not-accessible

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

Object ID
8164.1.64.1.1.10

Description
The context name string for this pool group

Syntax
Gauge32

Access
read-only

enterprise.8164.1.starentHNBGWService(65)

Object
starHNBGWServTable

Object ID
8164.1.65.1

Description
The statistics for a specific HNBGW service

Syntax
StarHNBGWSerEntry

Access
not-accessible

Object
starHNBGWSerEntry

Object ID
8164.1.65.1.1

Description
The statistics for a specific HNBGW service

Syntax
StarHNBGWSerEntry

Access
not-accessible
**Object**

starHNBGWSerVpnID

**Object ID**

8164.1.65.1.1.1

**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**

starSessHNBGWpName

**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

Access
read-only

Object
starSessHNBGWCSNsWName

Object ID
8164.1.65.1.1.5

Description
The name of the CS NW

Syntax
DisplayString

Access
read-only

Object
starSessHNBGWPsNsWName

Object ID
8164.1.65.1.1.6

Description
The name of the PS NW

Syntax
DisplayString

Access
read-only

Object
starSessHNBGWSGSNsPnTCD

Object ID
8164.1.65.1.1.7

Description
SGSN Point Code

Syntax
Integer32
Access
read-only

Object
starSessHNBGWMScPtCd

Object ID
8164.1.65.1.1.8

Description
MSC Point Code

Syntax
Integer32

Access
read-only

enterprise.8164.1.starentALCAPService(66)

Object
starALCAPServTable

Object ID
8164.1.66.1

Description
A table containing ALCAP relate information.

Syntax
StarALCAPSerEntry

Access
not-accessible

Object
starALCAPSerEntry

Object ID
8164.1.66.1.1

Description
The statistics for a specific ALCAP service

Syntax
StarALCAPSerEntry

Access
not-accessible
<table>
<thead>
<tr>
<th>Object</th>
<th>Description</th>
<th>Syntax</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>starALCAPSerVpnID</td>
<td>The internal identification of the VPN (context)</td>
<td>Gauge32</td>
<td>not-accessible</td>
</tr>
<tr>
<td>starALCAPSerSvcID</td>
<td>The internal identification of this service; unique within a specific context.</td>
<td>Gauge32</td>
<td>not-accessible</td>
</tr>
<tr>
<td>starSessALCAPVpnName</td>
<td>The name of this VPN (context).</td>
<td>DisplayString</td>
<td>read-only</td>
</tr>
<tr>
<td>starSessALCAPServName</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Object ID

8164.1.66.1.1.1

8164.1.66.1.1.2

8164.1.66.1.1.3

8164.1.66.1.1.4
Description
The name of this Service.

Syntax
DisplayString

Access
read-only

Object
starSessALCAPAAL2NodeName

Object ID
8164.1.66.1.1.5

Description
The name of the AAL2 Node.

Syntax
DisplayString

Access
read-only

Object
starSessALCAPPathId

Object ID
8164.1.66.1.1.6

Description
The path id of AAL2 path.

Syntax
Integer32

Access
read-only

enterprise.8164.1.starentMMES1Assoc(67)

Object
starMMES1AssocTable

Object ID
8164.1.67.1

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

Access
not-accessible

Object
starMMES1AssocEntry

Object ID
8164.1.67.1.1

Description
Information about a particular MME S1 Association.

Syntax
StarMMES1AssocEntry

Access
not-accessible

Object
starMMES1AssocSvcID

Object ID
8164.1.67.1.1.1

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

Syntax
StarMediumID

Access
not-accessible

Object
starMMES1AssocENBID

Object ID
8164.1.67.1.1.2

Description
The identification of the eNodeB.

Syntax
StarENBID
Access
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

Access
accessible-for-notify

Object
starMMES1PathVpnName

Object ID
8164.1.70.1.1.3

Description
The name of this VPN (context).

Syntax
DisplayString

Access
Read-only

Object
starMMES1PathServName

Object ID
8164.1.70.1.1.4

Description
The name of this MME Service

Syntax
DisplayString

Access
Read-only

Object
starMMES1PathSelfAddr

Object ID
8164.1.70.1.1.5

Description
Interface IP Address.

Syntax
IpAddress
Access  
Read-only

Object

starMMES1PathSelfPort

Object ID
8164.1.70.1.1.6

Description
Self port number.

Syntax
Gauge32

Access  
Read-only

Object

starMMES1PathPeerAddr

Object ID
8164.1.70.1.1.7

Description
Interface IP Address.

Syntax
IpAddress

Access  
Read-only

Object

starMMES1PathPeerPort

Object ID
8164.1.70.1.1.8

Description
Peer port number.

Syntax
Gauge32

Access  
Read-only
Chapter 2
Starent Chassis Traps

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

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

enterprise.8164.starentTraps(2)

Object
starCardTempOverheat

Object ID
enterprise.8164.2.1

Description
The card has reached a temperature beyond its safe operating range.

Probable Cause: External temperature is too high; one or more fan failures; blockages that prevent fan air inflow/outflow.

Action to be Taken: Inspect chassis for any item that may be blocking chassis air flow. Verify adjacent equipment is not obstructing air flow. Verify that the fans are running via the CLI/Web Element Manager. Check air filters. Check the chassis maintenance schedule to see if chassis needs routine air filter replacement. Verify room temperature is within acceptable operating conditions.

Clear Condition: This condition is cleared when the card reaches its operating temperature range or is removed from the system.

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

Objects
starSlotNum
starCardTemperature

Object
starCardTempOK

Object ID
enterprise.8164.2.2

Description
The temperature of the card is now within its safe operating range. This notification is only generated if the card has previously generated a starCardTempOverheat notification.

Action to be Taken: No action required. The cause for the card overheat condition should be investigated.

Objects
starSlotNum
starCardTemperature
Object
starCardReset

**Important:** This trap is obsolete.

Object ID
enterprise.8164.2.3

Description
A reset operation has been invoked on the card.

Objects
starSlotNum
starCardType

Object
starCardRebootRequest

Object ID
enterprise.8164.2.4

Description
A reboot operation has been invoked on this card by an administrator. If successful, a subsequent starCardDown trap is typically generated.

**Action to be Taken:** No action required. If the reboot was not scheduled, the admin logs can be examined to determine who invoked the reboot operation.

Objects
starSlotNum
starCardType

Object
starCardUp

Object ID
enterprise.8164.2.5

Description
The card is up (operational).

Objects
starSlotNum
starCardType

Object
starCardVoltageFailure
Object ID
enterprise.8164.2.6

Description
A voltage regulation failure has been detected this card.

Probable Cause: Problem with incoming power; failure of power filters; hardware issue with card. Note that this is an extremely abnormal condition.

Action to be Taken: Verify that the power supplied to the chassis is operating correctly; use the CLI/Web Element Manager to check the state of the chassis power filters; replace the card.

Clear Condition: This is not a recoverable error except via restarting the card, so the condition is only cleared via a starCardUp or starCardActive notification.

Objects
starSlotNum
starCardType

Object
starCardRemoved

Object ID
enterprise.8164.2.7

Description
A card has been removed from the chassis.

Probable Cause: An operator has physically unlocked and removed a card from the chassis.

Action to be Taken: No action is required. If the card removal was unplanned, the admin logs can identify the time when the card was initially unlocked.

Objects
starSlotNum
starCardType

Object
starCardInserted

Object ID
enterprise.8164.2.8

Description
A card has been inserted into the chassis.

Objects
starSlotNum
starCardType

Object
starCardBootFailed
Starent Chassis Traps

MIB Textual Conventions

SNMP MIB Reference, StarOS Release 17

447

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
time enterprise.8164.2.13

Description
The card does not match its configuration, or the card does not match the slot it was inserted into, or the card is of an unsupported type.

Probable Cause: A card was inserted into a slot which was configured for a different type of card. For example, a Gigabit Ethernet card was inserted into a slot configured for a Fast Ethernet card.

Clear Condition: A starCardUp or starCardActive notification is issued to confirm that this condition has been cleared.

Objects
starSlotNum
starCardType

Object
starCardFailureLEDOn

Important: This trap is obsolete.

Object ID
enterprise.8164.2.14

Description
The failure LED is illuminated on the card.

Objects
starSlotNum
starCardType

Object
starCardFailureLEDOff

Important: This trap is obsolete.
Object ID
enterprise.8164.2.15

Description
The failure LED is no longer illuminated on the card. This notification is only generated if the card has previously generated a starCardFailureLEDOn notification.

Objects
starSlotNum
starCardType

Object
starCardPACMigrateStart

Important: This trap is obsolete.

Object ID
enterprise.8164.2.16

Description
A packet processing card migration operation has begun. The first varbind identifies the packet processing card being migrated away from; the second varbind identifies the card being migrated to.

Probable Cause: This is typically caused by an operator action; it can also represent the system recovering from a software or hardware fault.

Clear Condition: A starCardPACMigrateComplete notification is generated when the migration is complete.

Objects
starSlotNum
starSlotNum

Object
starCardPACMigrateComplete

Important: This trap is obsolete.

Object ID
enterprise.8164.2.17

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

Objects
starSlotNum
starSlotNum

Object
starCardPACMigrateFailed

**Important:**

**Object ID**
enterprise.8164.2.18

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

**Probable Cause:** The packet processing card being migrated to was removed or reset before the migration completed; the migration operation was terminated by an operator; or a software or hardware failure on either packet processing card involved in the migration operation.

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

**Objects**
- 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

Object
starFanRemoved

Object ID
enterprise.8164.2.23

Description
A fan tray has been removed.

Action to be Taken: Replace the fan tray.

Clear Condition: Verify both fan trays are present and operational.

Condition Clear Alarm: A starFanInserted notification will be generated when the fan tray is replaced.

Objects
starFanNum

Object
starFanInserted

Object ID
enterprise.8164.2.24

Description
A fan tray has been inserted.

Objects
starFanNum

Object
starLogThreshold

Important: This trap is obsolete.

Object ID
enterprise.8164.2.25

Description
A system log has reached its maximum size.
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
starCPUFailed

Object

starCPUMemoryFailed

Object ID

enterprise.8164.2.28

Description

The memory on this CPU has failed.

Proable 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
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
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
starPowerFilterUnitAvail

Object ID
enterprise.8164.2.34

Description
A Power Filter Unit (PFU) is available. This typically means that a PFU has been inserted into the chassis or has its power source restored.

Action to be Taken: No action required.

Objects
starPowerNumber

Object
starAlertsDisabled

Object ID
enterprise.8164.2.37

Description
The sending of SNMP traps has been disabled because too many alerts were generated within the defined window type.

Probable Cause: Either a large number of SNMP notifications are being generated, or the configured threshold which limits the number of notifications is set too aggressively.

Actions to be Taken: Examine the admin logs and the SNMP trap logs to determine the source of the large number of traps and take appropriate actions; verify that the configured limit for the rate at which traps will be sent is appropriate for your environment.

Clear Condition Alarm: When the rate of SNMP notifications goes down, a starAlertsEnabled notification is generated.

Objects
starMaxAlertsPerTime
starWindowTime

Object
starAlertsEnabled

Object ID
terprise.8164.2.38

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

Object
starAAAAuthServerUnreachable

Object ID
terprise.8164.2.39

Description
The Authentication, Authorization and Accounting (AAA) server cannot be reached.

Probable Cause: The AAA server is down, or there is a network issue preventing communication with the AAA server.

Actions to be Taken: Restore the AAA server to an operational status. Verify that the AAA server is reachable by performing a 'ping' operation from the CLI in the appropriate context. Check the admin logs for notification of communication problems.

Clear Condition: Verify that communication to the AAA authentication server has been restored.

Condition Clear Alarm: When this condition clears, a starAAAAuthServerReachable notification will be generated. Note that if in a AAA group all the configured RADIUS servers are detected as down, their state is brought back to Active before the deadtime expiry period so that call setup signaling with AAA can proceed for subsequent requests. Therefore, when the last active authentication server in the group is detected as being down, a starAAAAuthServerUnreachable notification is generated. When the server state changes to Active, a starAAAAuthServerReachable notification is generated. This behavior is the same when there is only one RADIUS server configured.

Objects
radiusAuthServerIndex
radiusAuthServerAddress

Object
starAAAAuthServerReachable

Object ID
terprise.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

**Object**
- starCardActive

**Object ID**
enterprise.8164.2.55

**Description**
The card is now active.

**Objects**
- starSlotNum
- starCardType

**Object**
- starLACServiceStart

**Object ID**
enterprise.8164.2.56

**Description**
A LAC service has started.

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

**Objects**
- starServiceVpnName
- starServiceServName

**Object**
- starLACServiceStop

**Object ID**
enterprise.8164.2.57

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

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

Clear Condition: Verify that the LAC service is operational.

Condition Clear Alarm: A starLACServiceStart notification will be generated when the service restarts.

Objects
starServiceVpnName
starServiceServName

Object
starLNSServiceStart

Object ID
enterprise.8164.2.58

Description
A LNS service has started.

Action to be Taken: No action required.

Objects
starServiceVpnName
starServiceServName

Object
starLNSServiceStop

Object ID
enterprise.8164.2.59

Description
A LNS service has stopped.

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

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

Clear Condition: Verify that the LNS service is operational.

Condition Clear Alarm: A starLNSServiceStart notification will be generated when the service restarts.
starCardDown

Object ID
terprise.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
terprise.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
terprise.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

**Objects**
- 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

**Objects**
- starSessionRejectNoResource

**Object ID**
enterprise.8164.2.67

**Description**
A session setup was rejected because of a lack of available resources.

**Probable Cause:** The system has reached its maximum capacity based on the number of available packet processing cards/CPUs/memory.

**Actions to be Taken:** Examine the system CPU table to determine if there is abnormal system usage or if the system is reaching its capacity. If this condition persists, additional processing cards or memory may be required. Note that there is a configuration threshold which can be setup to monitor the number of NORESOURCE rejects.

**Objects**
- starServiceType
- starServiceVpnName
Object
starLongDurTimerExpiry

Object ID
enterprise.8164.2.68

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

Action to be Taken: No action is typically required. If an abnormal number of expiries occur, verify that the configuration expiry time is correct.

Objects
starSubContext
starSubMSID
starSubName
starSubTimerDuration
starSubLongDurTimeoutAction
starSubSetupTime
starSubHomeAddr
starSubHomeAddrv6

Object
starClosedRPServiceStart

Object ID
enterprise.8164.2.69

Description
Closed RP Service has started.

Action to be Taken: No action required.

Objects
starServiceVpnName
starServiceServName

Object
starClosedRPServiceStop

Object ID
enterprise.8164.2.70

Description
Closed RP Service has stopped.

Probable Cause: This is typically caused by operator intervention. In unusual cases it can be caused by the loss of hardware resources (packet processing cards) to support the running configuration.
**Action to be Taken**: If the Closed RP service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured packet processing cards are present and running in the system. Check the crash logs for an indication of a software failure.

**Clear Condition**: Verify that the Closed RP service is operational.

**Condition Clear Alarm**: A starClosedRPServiceStart notification will be generated when the service restarts.

**Objects**
- starServiceVpnName
- starServiceServName

**Object**
- starGtpcPathFailure

**Object ID**
enterprise.8164.2.71

**Description**
GTP Control Path Failure.

**Objects**
- starSessGGSNVpnName
- starSessGGSNServName
- starSessGGSNPeerAddr

**Object**
- starGtpuPathFailure

**Object ID**
enterprise.8164.2.72

**Description**
GTP Data Path Failure.

**Objects**
- starSessGGSNVpnName
- starSessGGSNServName
- starSessGGSNPeerAddr

**Object**
- starManagerFailure

**Object ID**
enterprise.8164.2.73

**Description**
Software manager failure.

**Probable Cause**: A software failure. The failing manager will be restarted.
Action to be Taken: Examine the admin and crash logs for more information about the failure.

Objects
starTaskFacilityName
starTaskInstance
starTaskCard
starTaskCPU

Object
starEISServerAlive

Object ID
enterprise.8164.2.74

Description
EIS Server alive.

Objects
starEISServerVPNName
starEISServerAddr

Object
starEISServerDead

Object ID
enterprise.8164.2.75

Description
EIS Server down.

Probable Cause: The remote EIS server is down or there is a network error making it unreachable.

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

Objects
starEISServerVPNName
starEISServerAddr

Object
starCgfAlive

Object ID
enterprise.8164.2.76

Description
GTPP CGF Server is alive.

Objects
starSessGGSNVpnName
StarSessGGSNPeerPort
StarSessGGSNPeerAddr

**Object**

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
table.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
table.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
tenterprise.8164.2.82

Description
A congestion condition has cleared.

Objects
starServiceType

Object
starServiceLossPTACs

Object ID
tenterprise.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
tenterprise.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**
- enterprise.8164.2.85

**Description**
A service loss condition has occurred due to SPIO failure or removal. Since the SPIO contains the ports used for SNMP access, this notification cannot normally be delivered as an SNMP trap. The notification will be logged and stored in the historical trap list, and if the system is configured to send INFORM PDUs the notification might be delivered at a later time.

**Probable Cause:** Both SPIOs are no longer available due to failure, removal, or operator action.

**Action to be Taken:** Bring at least one SPIO online.

**Clear Condition:** This condition is cleared when a SPIO is made active.

---

**Object**
- starIPSPAllAddrsFree

**Object ID**
- enterprise.8164.2.86

**Description**
All IP addresses are now free on the IP Pool Sharing Protocol (IPSP) primary HA.

**Probable Cause:** IP Pool Sharing Protocol (IPSP) is running between two HAs (a primary and a secondary). The primary HA has now released the last address that was in use. This presumably is done in preparation for taking the primary HA out of service.

**Action to be Taken:** Perform the desired maintenance on the primary HA that required taking the device out of service.

**Objects**
- starContextName
- starInterfaceName

**Object**
- starPCFUnreachable

**Object ID**
- enterprise.8164.2.87
Description
A PCF that the system communicates with is no longer reachable.

Probable Cause: The PCF has failed or is otherwise unavailable, or a network connectivity problem makes it unreachable.

Action to be Taken: If the PCF outage was unplanned, restart/reset the PCF, and verify network connectivity.

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

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

Objects
- starContextName
- starPCFAddress
- starDhcpAlive

Object ID
enterprise.8164.2.88

Description
DHCP server alive.

Objects
- starSessGGSNVpnName
- starSessGGSNPeerPort
- starSessGGSNPeerAddr
- starDhcpDead

Object ID
enterprise.8164.2.89

Description
DHCP server dead.

Probable Cause: The remote DHCP server is down or there is a network error making it unreachable.

Action to be Taken: Verify that the DHCP server is functioning properly; verify network connectivity to the DHCP server.

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

Condition Clear Alarm: A starDhcpAlive notification is generated when the server becomes reachable.
Object
starNTPPeerUnreachable

Object ID
enterprise.8164.2.90

Description
NTP peer unreachable.

Probable Cause: The NTP server is down or unavailable, or there is a network connectivity issue that prevents access to the NTP server.

Action to be Taken: Verify that the NTP server is running properly; verify that the connection to the NTP server is functioning.

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

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

Objects
starPeerAddress

Object
starNTPSyncLost

Object ID
enterprise.8164.2.91

Description
NTP synchronization lost.

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

Action to be Taken: Verify that the NTP server(s) are running properly and that the network connections to the NTP servers are available. Check the configured of the NTP servers for correctness. If needed, configure additional NTP servers.

Clear Condition: This condition is cleared when any (one) NTP server becomes reachable.

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

Object
starL2TPTunnelDownPeerUnreachable

Object ID
enterprise.8164.2.92

Description
L2TP tunnel down due to peer unreachable.

Probable Cause: Misconfiguration of the peer router address or inability to route to the peer.

Action to be Taken: Verify the peer address is correct; verify that the peer is operational; verify network connectivity to the peer.
Objects

starL2TPLocalTunnelID
starL2TPPeerTunnelID
starL2TPContextName
starL2TPServiceName
starL2TPServiceTypeName
starL2TPLocalAddress
starL2TPPeerAddress

Object

starCardStandby

Object ID
enterprise.8164.2.93

Description
The card is now in standby mode.

Objects

starSlotNum
starCardType

Object

starLicenseUnderLimit

Object ID
enterprise.8164.2.94

Description
Usage is now under the licensed session limit.

Objects

starLicensedSessions
starCurrentSessions
starServiceType

Object

starIPSECPriTunDown

Object ID
enterprise.8164.2.95

Description
IPSEC primary tunnel is down

Objects

starIPSECCContextName
starIPSECGroupName
starIPSECTunLocalIPAddr
starIPSECTunRemoteIPAddr

Object
starIPSECPriTunUp

Object ID
testraent.8164.2.96

Description
IPSEC primary tunnel is up

Objects
starIPSECCContextName
starIPSECGroupName
starIPSECTunLocalIPAddr
starIPSECTunRemoteIPAddr

Object
starIPSECSecTunDown

Object ID
testraent.8164.2.97

Description
IPSEC secondary tunnel down

Objects
starIPSECCContextName
starIPSECGroupName
starIPSECTunLocalIPAddr
starIPSECTunRemoteIPAddr

Object
starIPSECSecTunUp

Object ID
testraent.8164.2.98

Description
IPSEC secondary tunnel is up

Objects
starIPSECCContextName
starIPSECGroupName
starIPSECTunLocalIPAddr
starIPSECTunRemoteIPAddr

Object
starIPSECTunSwitchFail

Object ID
enterprise.8164.2.99

Description
IPSEC tunnel switchover failed or unable to be attempted.

Objects
starIPSECContextName
starIPSECGroupName

starIPSECTunSwitchComplete

Object

Object ID
enterprise.8164.2.100

Description
IPSEC tunnel switchover complete

Objects
starIPSECContextName
starIPSECGroupName
starIPSECTunLocalIPAddr
starIPSECTunRemoteIPAddr

starNwReachServerAlive

Object

Object ID
enterprise.8164.2.101

Description
Nw reachable server alive

Objects
starNwReachName
starNwReachSrvrAddr

starNwReachServerDead

Object

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
- starNTPSyncEstablished

Object ID
enterprise.8164.2.106

Description
NTP Synchronization Established.

**Probable Cause:** An NTP server is available when previously no server was available. This could indicate a newly configured NTP server (including an initial configuration on system startup) or could indicate that one or more previously unreachable server(s) has become reachable.

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

**Object**
- starSIPServiceStart

Object ID
enterprise.8164.2.107

Description
A SIP service has started.

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

**Objects**
- starServiceVpnName
- starServiceServName

Object ID
enterprise.8164.2.108

Description
A SIP service has stopped.

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

**Object ID**
enterprise.8164.2.109

**Description**
A VIM service has started.

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

**Syntax**
- starServiceVpnName
- starServiceServName

### starVIMServiceStop

**Object ID**
enterprise.8164.2.110

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

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

**Objects**
- starServiceVpnName
- starServiceServName

### starCHATCONFServiceStart

**Object ID**
enterprise.8164.2.111

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

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

**Objects**
- starServiceVpnName
- starServiceServName

### starCHATCONFServiceStop
A CHAT/CONF service has stopped. This is because of application out-of-service or if chatconf is down or no app. server.

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

**Objects**
- starServiceVpnName
- starServiceServName

**Object ID**
enterprise.8164.2.113

A 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

An L3 address is unreachable through the specific slot and port.

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

**Objects**
- starL3Address
- starPortSlot
- starPortNum

**Object**
starSWUpgradeStart
Object ID
enterprise.8164.2.115

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

Object
starSWUpgradeComplete

Object ID
enterprise.8164.2.116

Description
An operator-initiated software upgrade has been completed.

Object
starSWUpgradeAborted

Object ID
enterprise.8164.2.117

Description
An operator-initiated software upgrade has been aborted.

Object
starBGPPeerSessionUp

Object ID
enterprise.8164.2.118

Description
The BGP peer session to the specified IP address is operational. This may indicate the initial configuration of a new peer, the initial connectivity after a system restart, or the restoration of connectivity after a starBGPPeerSessionDown event.

Action to be Taken: No action required.

Objects
starContextName
starBGPPeerIPAddress

Object
starBGPPeerSessionDown

Object ID
enterprise.8164.2.119

Description
The BGP peer session to the specified IP address is no longer operational.
Probable Cause: The BGP peer is not-operational; the network between the chassis and the BGP peer is experiencing an outage; or LC failure(s) on the chassis.

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

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

Objects

starContextName
starBGPPeerIPAddress

Object

starSRPActive

Object ID
enterprise.8164.2.120

Description
The SRP chassis status is now active.

Action to be Taken: No action is required.

Objects

starContextName
starSRPIPAddress

Object

starSRPStandby

Object ID
enterprise.8164.2.121

Description
The SRP chassis status is now Standby.

Action to be Taken: No action is required.

Objects

starContextName
starSRPIPAddress

Object

starBGPPeerReachable

Object ID
enterprise.8164.2.122

Description
The monitored BGP peer is now reachable. This notification can represent the initial detection of the peer's state, or the re-connection to a peer after a starBGPPeerDown notification.

Action to be Taken: No action is required.
Objects
starContextName
starSRPIPAddress
starUDPPortNum
starBGPPeerIPAddress

Object
starBGPPeerUnreachable

Object ID
enterprise.8164.2.123

Description
The monitored BGP peer is now unreachable.

Action to be Taken: Verify that the BGP Peer is running and is properly configured. Verify the network link to the BGP Peer.

Clear Condition: This condition is cleared when communication with the BGP peer is reestablished.

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

Objects
starContextName
starSRPIPAddress
starUDPPortNum
starBGPPeerIPAddress

Object
starSRPAAAReachable

Object ID
enterprise.8164.2.124

Description
The SRP AAA monitor has found a reachable AAA server. This notification can represent the initial detection of an AAA server, or the restoration of reachability after a starSRPAAAUnreachable notification. This notification is only generated if there was previously no reachable AAA server.

Action to be Taken: No action required.

Objects
starContextName
starSRPIPAddress
starUDPPortNum

Object
starSRPAAAUnreachable
Object ID
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 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 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 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 takeover.

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

  **Probable Cause:** No action has been taken long for the GCVD 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
starServiceFAIpAddr
starServiceHAIpAddr

Object

starHAReachable

Object ID

enterprise.8164.2.147
Description
A monitored HA is now reachable. A starHAReachable notification is only generated for monitored HA's which previously were marked unreachable.

Objects
starServiceVPNName
starServiceServName
starServiceFAIpAddr
starServiceHAIpAddr

Object
starASNGWServiceStart

Object ID
telepresence.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
telepresence.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
starCSCFSERVICEStart

Object ID
enterprise.8164.2.152

Description
A CSCF Service has started.

Action to be Taken: No action required.

Objects
starServiceVpnName
starServiceServName
Object
starCSCFServiceStop

Object ID
enterprise.8164.2.153

Description
A CSCF Service has stopped.

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

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

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

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

Objects
starServiceVpnName
starServiceServName

Object
starDhcpServiceStarted

Object ID
enterprise.8164.2.154

Description
A DHCP Service has started.

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

Objects
starSessGGSNVpnName
starSessGGSNPeerPort
starSessGGSNPeerAddr

Object
starDhcpServiceStopped

Object ID
enterprise.8164.2.155

Description
A DHCP Service has stopped.

**Probable Cause:** This is typically caused by operator intervention. In unusual cases it can be caused by the loss of hardware resources to support the running configuration.
**Action to be Taken:** If the DHCP service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured packet processing cards are present and running in the system. Check the crash logs for an indication of a software failure.

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

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

### Objects

- starSessGGSNVpnName
- starSessGGSNPeerPort
- starSessGGSNPeerAddr

**Object**

- starContFiltDBError

**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**

- starContFiltDBErrorClear

**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**

- starBLDBError

**Object ID**

enterprise.8164.2.158
Description

The Blacklisting OPTBLDB file error displayed with an error code.

**Action to be Taken:** If there is no or there is an invalid OPTBLDB file in the specified directory then place a OPTBLDB_FULL file in the directory and give an upgrade command.

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

**Objects**

- starBLFilename
- starBLErrorCode
- starBLDBErrorClear

**Object ID**
enterprise.8164.2.159

Description

The Blacklisting OPTBLDB file error removed

**Objects**

- starBLFilename
- starBLErrorCode
- starContFiltDBUpgradeError

**Object ID**
enterprise.8164.2.160

Description

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

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

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

**Objects**

- starContFiltCFUpgradeFilename
- starContFiltCFUpgradeErrorCode
- 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
top.8164.2.165

Description
    IPSEC dynamic tunnel down.

Objects
    starIPSECContextName
    starIPSECPolicyName
    starIPSECDynPolicyType
    starIPSECDynPolicyPayloadType
    starIPSECLocalGateway
    starIPSECRemoteGateway

Object
    starHeartbeat

Object ID
top.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
top.8164.2.167

Description
    A system-wide congestion overload condition has occurred.

    **Probable Cause:** This is the result of an operator-configured congestion overload value reached. This notification indicated a chassis-wide overload condition, typically overall system usage reaching some fraction of capacity. Once this limit is reached, the configured behavior is taken. This will cause certain older and/or dormant calls to be dropped.
in favor of newer calls. Note that this is similar to, but different from, the starCongestion notification. Typically the 'overload' condition will be configured to trigger at an earlier point.

**Actions to be Taken:** Verify that the congestion overload thresholds are correct; if the congested state is seen repeatedly, or for sustained periods of time, additional system capacity may need to be brought online.

**Clear Condition:** This system is cleared when the use of the specific resource falls below the configured limit.

**Condition Clear Alarm:** A starOverloadSystemClear notification is sent when the system overload condition is clear.

**Objects**

**starCongestionResourceType**

**Object**

- starOverloadSystemClear

**Object ID**

enterprise.8164.2.168

**Description**

A system-wide congestion overload condition has cleared

**Object**

- starOverloadService

**Object ID**

enterprise.8164.2.169

**Description**

A service-specific congestion overload condition has occurred.

**Probable Cause:** This is the result of an operator-configured congestion overload value reached. This notification indicated a service-specific overload condition, typically the use of the service reaching some fraction of capacity. Once this limit is reached, the configured behavior is taken. This will cause certain older and/or dormant calls to be dropped in favor of newer calls. Note that this is similar to, but different than, the starCongestion notification. Typically the 'overload' condition will be configured to trigger at an earlier point. Since this is a service-specific notification, it is possible to receive multiple notifications for different services.

**Action to be Taken:** Verify that the congestion overload thresholds are correct; if the congested state is seen repeatedly, or for sustained periods of time, additional system capacity may need to be brought online.

**Clear Condition:** This system is cleared when the use of the specific resource falls below the configured limit.

**Condition Clear Alarm:** A starOverloadServiceClear notification is sent when the service-specific overload condition is clear.

**Objects**

**starCongestionResourceType**

**Object**

- starOverloadServiceVpnName
- starServiceServName

**Object**

- starOverloadServiceClear
Object ID
enterprise.8164.2.170

Description
A service-specific congestion overload condition has cleared

Objects
starServiceVpnName
starServiceServName

Object
starStorageServerClusterStateChange

Object ID
enterprise.8164.2.171

Description
GTPP Storage Server cluster state has been changed. GTPP Storage Server may have gone offline from all the nodes or switchover has been occurred. Note that this is an external server.

Probable Cause: GTPP Storage Server cluster hardware/software component failure, or maintenance of GTPP Storage Server is in progress.

Objects
starSessGGSNVpnName
starSessGGSNPeerAddr
starGSSClusterName
starGSSClusterRgName
starGSSClusterRsName
starGSSClusterNodeState
starGSSClusterPrevOnlineNode

Object
starStorageServerClusterswitchOver

Object ID
enterprise.8164.2.172

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

Probable Cause: GTPP storage server cluster hardware/software component failure or maintenance of GTPP storage server is in progress.

Objects
starSessGGSNVpnName
starSessGGSNPeerAddr
starGSSClusterName
starGSSClusterRgName
starGSSClusterFromNode
starGSSClusterToNode

Object
starStorageServerClusPathFail

Object ID
enterprise.8164.2.173

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

Probable Cause: Fiber-optic cable may have been damaged or pulled out or disk fault may have been occurred.

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

Objects
starSessGGSNVpnName
starSessGGSNPeerAddr
starGSSDiskPath
starGSSClusterName
starGSSClusterNodeName

Object
starStorageServerClusPathOK

Object ID
enterprise.8164.2.174

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

Objects
starSessGGSNVpnName
starSessGGSNPeerAddr
starGSSDiskPath
starGSSClusterName
starGSSClusterNodeName

Object
starStorageServerClusInterCFail

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

Probable Cause: Interconnect interface may have been failed, or interconnect interface cable may have been pulled out.

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

Objects
starSessGGSNVpnName
starSessGGSNPeerAddr
starGSSTransportPath
starGSSClusterName
starGSSClusterNodeName

Object
starStorageServerClusInterCOK

Object ID
t 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
t 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

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

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 ID**

- enterprise.8164.2.181

**Description**

A PDIF Service has started.

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

**Objects**

- starServiceVpnName
- starServiceServName

**Object ID**

- enterprise.8164.2.182

**Description**

A PDIF Service has stopped.

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

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

**Clear Condition:** Verify that the PDIF Service is operational.

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

**Objects**

- starServiceVpnName
- starServiceServName
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
terprise.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
terprise.8164.2.196

Description
M3UA route to the point code becomes unavailable.

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

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

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

Objects
starSS7rdId
starSS7Pc
starSS7M3UAPsId
starSS7CauseString

Object
starM3UAPCAvailable
**Object ID**
enterprise.8164.2.197

**Description**
M3UA route to the point code becomes available.

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

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

**Objects**
starSS7M3UAPsId
starSS7Pc
starSS7rdId
starSS7CauseString

**Object**
starThreshCPUUtilization

---

**Object ID**
enterprise.8164.2.200

**Description**
The overall CPU utilization for the identified processor has exceeded its configured threshold value for the current monitoring period.

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

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

**Objects**
starCPUSlot
starCPUNumber
starThreshPct
starThreshMeasuredPct

**Object**
starThreshClearCPUUtilization

---

**Object ID**
enterprise.8164.2.201

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

**Objects**
starCPUSlot
starCPUNumber
starThreshPct
starThreshMeasuredPct

Object

starThreshCPUMemory

Object ID

enterprise.8164.2.202

Description
The amount of available memory for the identified processor has fallen below the configured threshold value.

Probable Cause: This is a user configurable threshold.

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

Objects

starCPUSlot
starCPUNumber
starThreshInt
starThreshMeasuredInt

Object

starThreshClearCPUMemory

Object ID

enterprise.8164.2.203

Description
The threshold condition is now clear.

Objects

starCPUSlot
starCPUNumber
starThreshInt
starThreshMeasuredInt

Object

starThreshLicense

Object ID

enterprise.8164.2.204

Description
The percentage available, licensed subscribers has fallen below the configured threshold value.

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

**Objects**
- starThreshPct
- starThreshMeasuredPct
- starServiceType

**Object**
- starThreshClearLicense

**Object ID**
enterprise.8164.2.205

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

**Objects**
- starThreshInt
- starThreshMeasuredInt
- starServiceType

**Object**
- starThreshSubscriberTotal

**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.

Objects

starPortSlot
starPortNum
starThreshPct
starThreshMeasuredPct

Object
starThreshClearPortRxUtil

Object ID
enterprise.8164.2.211

Description
The threshold condition is now clear.

Objects
starPortSlot
starPortNum
starThreshPct
starThreshMeasuredPct

Object
starThreshPortTxUtil

Object ID
enterprise.8164.2.212

Description
The Tx utilization of the port has exceeded the configured threshold value during the current monitoring period.

Probable Cause: This is a user-configurable threshold.

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

Objects
starPortSlot
starPortNum
starThreshPct
starThreshMeasuredPct

Object
starThreshClearPortTxUtil

Object ID
enterprise.8164.2.213

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

Object
starThreshPortHighActivity

Object ID
terprise.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
starThreshAAAAacctFail

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

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearAAAAacctFail

Object ID
enterprise.8164.2.221

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshAAAAacctFailRate

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

Objects
starThreshPct
starThreshMeasuredPct

**Object**

starThreshClearAAAAcctFailRate

**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.

**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**
- 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**
- starThreshPacketsForwarded

**Object ID**
enterprise.8164.2.235

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

Object
   starThreshSessCPUThroughput

Object ID
terprise.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
terprise.8164.2.237

Description
The threshold condition is now clear.

Objects
starCPUSlot
starCPUNumber
starThreshMB
starThreshMeasuredMB

Object
   starThreshIPPoolAvail

Object ID
terprise.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 for configured threshold value for the current monitoring period.

Objects
starCPUSlot
starCPUNumberOf
starThreshPct
starThreshMeasuredPct

Object
starThreshClearCPUUtilization10Sec

Object ID
enterprise.8164.2.241

Description
The threshold condition is now clear.
Objects

cstarCPUSlot
cstarCPUNumber
cstarThreshPct
cstarThreshMeasuredPct

cObject
cstarThreshCPULoad

cObject ID
centerprise.8164.2.242

cDescription
nThe CPU load for the identified processor has exceeded for configured threshold value for the current monitoring period.

Objects

cstarCPUSlot
cstarCPUNumber
cstarThreshInt
cstarThreshMeasuredInt

cObject
cstarThreshClearCPUload

cObject ID
centerprise.8164.2.243

cDescription
nThe threshold condition is now clear.

Objects

cstarCPUSlot
cstarCPUNumber
cstarThreshInt
cstarThreshMeasuredInt

cObject
cstarThreshCPUMemUsage

cObject ID
centerprise.8164.2.244

cDescription
nThe 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

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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

Object
starThreshPortSpecRxUtil

Important: This alarm is obsolete.

Object ID
enterprise.8164.2.272

Description
The Rx utilization of the port has exceeded the configured threshold value during the current monitoring period.

Probable Cause: This is a user configurable threshold.

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

Objects
starPortSlot
starPortNum
starThreshPct
starThreshMeasuredPct

Object
starThreshClearPortSpecRxUtil

Important: This alarm is obsolete.

Object ID
enterprise.8164.2.273

Description
The threshold condition is now clear.

Objects
starPortSlot
starPortNum
starThreshPct
starThreshMeasuredPct

Object
starThreshPortSpecTxUtil

Important: This alarm is obsolete.

Object ID
enterprise.8164.2.274

Description
The Tx utilization of the port has exceeded the configured threshold value during the current monitoring period.

Probable Cause: This is a user-configurable threshold.

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

Objects
starPortSlot
starPortNum
starThreshPct
starThreshMeasuredPct

Object
starThreshClearPortSpecTxUtil

Important: This trap is obsolete.

Object ID
enterprise.8164.2.275

Description
The threshold condition is now clear.

Objects
starPortSlot
starPortNum
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
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshClearHASvcCallSetupRate

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

Object
starThreshClearHASvcReregReplyError

Object ID
enterprise.8164.2.283

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshHASvcDeregReplyError

Object ID
enterprise.8164.2.284

Description
The per-service HA Dereg Reply Error count has gone above the configured threshold

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

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
  starThreshClearHASvcDeregReplyError

Object ID
  enterprise.8164.2.285

Description
  The threshold condition is now clear.

Objects
  starServiceVpnName
  starServiceServName
  starThreshInt
  starThreshMeasuredInt

Object
  starThreshClearFASvcRegReplyError

Object ID
  enterprise.8164.2.286

Description
  The Per-Service FA Reg Reply Error count has gone above the configured threshold

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

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

Objects
  starServiceVpnName
  starServiceServName
  starThreshInt
  starThreshMeasuredInt

Object
  starThreshClearFASvcRegReplyError

Object ID
  enterprise.8164.2.287

Description
  The threshold condition is now clear.
Objects

starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object

starThreshPDSNCallSetupRate

Object ID
t

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
t

enterprise.8164.2.289

Description
The threshold condition is now clear.

Objects

starServiceVpnName
starThreshInt
starThreshMeasuredInt

Object

starThreshPDSNSvcCallSetupRate

Object ID
t

enterprise.8164.2.290

Description
The Per-Service PDSN Call Setup Rate (calls per second) has gone above the configured threshold

Probable Cause: This is a user configurable threshold.
Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearPDSNSvcCallSetupRate notification is generated when the measured value falls below the threshold.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshClearPDSNSvcCallSetupRate

Object ID
enterprise.8164.2.291

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshPDSNSvcA11RRPFailure

Object ID
enterprise.8164.2.292

Description
The Per-Service PDSN A11 RRP Failure count has gone above the configured threshold

Probable Cause: This is a user-configurable threshold.

Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearPDSNSvcA11RRPFailure notification is generated when the measured value falls below the threshold.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshClearPDSNSvcA11RRPFailure
Object ID
enterprise.8164.2.293

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshPDSNSvcA11RRQMsgDiscard

Object ID
enterprise.8164.2.294

Description
The Per-Service PDSN A11 RRQ Msg Discard count has gone above the configured threshold.

Probable Cause: This is a user-configurable threshold.

Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode a starThreshClearPDSNSvcA11RRQMsgDiscard notification is generated when the measured value falls below the threshold.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshClearPDSNSvcA11RRQMsgDiscard

Object ID
enterprise.8164.2.295

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshPDSNSvcA11RACMsgDiscard

**Object ID**
enterprise.8164.2.296

**Description**
The Per-Service PDSN A11 RAC Msg Discard count has gone above the configured threshold.

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

*Condition Clear Alarm:* If the thresholding subsystem is configured to run in alarm mode a starThreshClearPDSNSvcA11RACMsgDiscard notification is generated when the measured value falls below the threshold.

**Objects**
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

---

starThreshClearPDSNSvcA11RACMsgDiscard

**Object ID**
enterprise.8164.2.297

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

**Objects**
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

---

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
text.8164.2.299

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshAAAMgrQueue

Object ID
text.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
text.8164.2.301

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

Object
starThreshCPUOrbsWarn

Object ID
enterprise.8164.2.302

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

Objects
starCPUSlot,
starCPUNumber
starThreshPct
starThreshMeasuredPct

Object
starThreshClearCPUOrbsWarn

Object ID
enterprise.8164.2.303

Description
The threshold condition is now clear.

Objects
starCPUSlot,
starCPUNumber
starThreshPct
starThreshMeasuredPct

Object
starThreshCPUOrbsCritical

Object ID
enterprise.8164.2.304

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

Objects
starCPUSlot,
starCPUNumber
starThreshPct
starThreshMeasuredPct

Object
starThreshClearCPUOrbsCritical

Object ID
text.8164.2.305

Description
The threshold condition is now clear

Objects
starCPUSlot,
starCPUNumber
starThreshPct
starThreshMeasuredPct

Object
starThreshRPSetupFailRate

Object ID
text.8164.2.306

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

Objects
starThreshPct
starThreshMeasuredPct

Object
starThreshClearRPSetupFailRate

Object ID
text.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
enterprise.8164.2.312

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

Object
starThreshClearDCCAProtocolErrors

Object ID
enterprise.8164.2.313

Description
The threshold condition is now clear.

Object
starThreshDCCABadAnswers

Object ID
enterprise.8164.2.314

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

Object
starThreshClearDCCABadAnswers
Object ID
enterprise.8164.2.315

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshDCCAUnknownRatingGroup

Object ID
enterprise.8164.2.316

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

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearDCCAUnknownRatingGroup

Object ID
enterprise.8164.2.317

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshDCCARatingFailed

Object ID
enterprise.8164.2.318

Description
The number of DCCA RatingFailed has exceeded the configured threshold

Objects
starThreshInt
starThreshMeasuredInt
Object

starThreshClearDCCARatingFailed

Object ID

enterprise.8164.2.319

Description

The threshold condition is now clear.

Objects

starThreshInt
starThreshMeasuredInt

Object

starThreshIPSECIKERequests

Object ID

enterprise.8164.2.320

Description

The number of IPSEC IKE requests seen for this HA service has exceeded the configured threshold.

Probable Cause: This is a user configurable threshold.

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

Objects

starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object

starThreshClearIPSECIKERequests

Object ID

enterprise.8164.2.321

Description

The threshold condition is now clear.

Objects

starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt
starThresholdIPSECIKEFailures

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

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThresholdClearIPSECIKEFailures

Object ID
enterprise.8164.2.323

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThresholdIPSECIKEFailRate

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

Objects
starServiceVpnName
starServiceServName
starThreshPct
starThreshMeasuredPct

Object

cstarThreshClearIPSECIKEFailRate

Object ID
enterprise.8164.2.325

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object

cstarThreshIPSECTunSetup

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

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object

cstarThreshClearIPSECTunSetup

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
  - starThreshClearIPSECTunnelsTotal

Object ID
enterprise.8164.2.331

Description
The threshold condition is now clear.

Objects
- starServiceVpnName
- starServiceServName
- starThreshInt
- starThreshMeasuredInt
- Object
  - starThreshClearCSCFSvcRouteFailure

Object ID
enterprise.8164.2.332

Description
The Per-Service CSCF Route failure count has gone above the configured threshold.

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

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

Objects
- starServiceVpnName
- starServiceServName
- starThreshInt
- starThreshMeasuredInt
Object
starThreshClearCSCFSvcRouteFailure

Object ID
enterprise.8164.2.333

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshContFiltRating

Object ID
enterprise.8164.2.334

Description
The number of Content Filtering Rating operations performed has gone above the configured threshold value.

Probable Cause: This is a user configurable threshold.

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

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearContFiltRating

Object ID
enterprise.8164.2.335

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshContFiltBlock
Object ID
enterprise.8164.2.336

Description
The number of Content Filtering Block operations performed has gone above the configured threshold.

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

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

**Objects**
- starThreshInt
- starThreshMeasuredInt

Object
- starThreshClearContFiltBlock

Object ID
enterprise.8164.2.337

Description
The threshold condition is now clear.

**Objects**
- starThreshInt
- starThreshMeasuredInt

Object
- starThreshClearCDRFileSpace

Object ID
enterprise.8164.2.338

Description
The CDR file space usage is above the configured threshold percentage.

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

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

**Objects**
- starThreshPct
- starThreshMeasuredPct

Object
- starThreshClearCDRFileSpace

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

Objects
starThreshPct
starThreshMeasuredPct

Object
starThreshEDRFileSpace

Object ID
enterprise.8164.2.340

Description
The EDR file space usage is above the configured threshold percentage.
Probable Cause: This is a user-configurable threshold.
Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearEDRFileSpaceOverLimit notification generated when the measured value falls below the threshold.

Objects
starThreshPct
starThreshMeasuredPct

Object
starThreshClearEDRFileSpace

Object ID
enterprise.8164.2.341

Description
The threshold condition is now clear.

Objects
starThreshPct
starThreshMeasuredPct

Object
starThreshPDIFCurrSess

Object ID
enterprise.8164.2.342

Description
The chassis-wide count of current PDIF sessions has gone above the configured threshold.
Probable Cause: This is a user-configurable threshold.
Condition Clear Alarm: If the thresholding subsystem is configured to run in alarm mode, a starThreshClearPDIFCurrSess notification will be generated when the measured value falls below the threshold.
Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearPDIFCurrSess

Object ID
terminal.8164.2.343

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshPDIFCurrActSess

Object ID
terminal.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
terminal.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`
Description
Threshold condition is now clear

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshASNGWMaxEAPRetry

Object ID
enterprise.8164.2.356

Description
Number of ASNGW EAP retries has exceeded the configured threshold during the current monitoring period.

Probable Cause: This is a user-configurable threshold.

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

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearASNGWMaxEAPRetry

Object ID
enterprise.8164.2.357

Description
Threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshASNGWNWEntryDenial

Object ID
enterprise.8164.2.358

Description
Number of ASNGW network entry denials has exceeded the configured threshold during the current monitoring period.

Probable Cause: This is a user-configurable threshold.

Condition Clear Alarm: If thresholding is configured to run in alarm mode, a starThreshASNGWNWEntryDenial notification is generated when the value falls below the threshold.
Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearASNGWNWEntryDenial

Object ID
enterprise.8164.2.359

Description
Threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshASNGWHandoffDenial

Object ID
enterprise.8164.2.360

Description
Number of ASNGW handoff denials has exceeded the configured threshold during the current monitoring period.

Probable Cause: This is a user-configurable threshold.

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

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearASNGWHandoffDenial

Object ID
enterprise.8164.2.361

Description
Threshold condition is now clear

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshSGSNSessions
Object ID
enterprise.8164.2.362

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

Probable Cause: This is a user-configurable threshold.

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

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearSGSNSessions

Object ID
enterprise.8164.2.363

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearPerServiceSGSNSessions

Object ID
enterprise.8164.2.364

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

Probable Cause: This is a user-configurable threshold.

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

 Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshClearPerServiceSGSNSessions
Object ID
enterprise.8164.2.365

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshSGSNPdpSessions

Object ID
enterprise.8164.2.366

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

Probable Cause: This is a user-configurable threshold.

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

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearSGSNPdpSessions

Object ID
enterprise.8164.2.367

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshPerServiceSGSNPdpSessions

Object ID
enterprise.8164.2.368
Description
The total number of SGSN PDP sessions in a service is above the configured threshold value.

Probable Cause: This is a user-configurable threshold.

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

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshClearPerServiceSGSNPdpSessions

Object ID
enterprise.8164.2.369

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshFWDosAttack

Object ID
enterprise.8164.2.370

Description
The cumulative number of FW Denial of Service attacks has exceeded the configured threshold during the current monitoring period.

Probable Cause: This is a user-configurable threshold.

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

Description
starThreshInt
starThreshMeasuredInt

Object
starThreshClearFWDoSAttack
<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.2.371</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Threshold condition is now clear.</td>
</tr>
<tr>
<td>Objects</td>
<td>starThreshInt</td>
</tr>
<tr>
<td></td>
<td>starThreshMeasuredInt</td>
</tr>
</tbody>
</table>

**Object**

starThreshFWDropPacket

<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.2.372</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The cumulative number of FW dropped packets has exceeded the configured threshold.</td>
</tr>
<tr>
<td>Probable Cause:</td>
<td>This is a user-configurable threshold.</td>
</tr>
<tr>
<td>Condition Clear Alarm:</td>
<td>If thresholding is configured to run in alarm mode, a starThreshClearFWDropPacket notification is generated when the value falls below the threshold.</td>
</tr>
<tr>
<td>Description</td>
<td>starThreshInt</td>
</tr>
<tr>
<td>Description</td>
<td>starThreshMeasuredInt</td>
</tr>
</tbody>
</table>

**Object**

starThreshClearFWDropPacket

<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.2.373</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The threshold condition is now clear.</td>
</tr>
<tr>
<td>Objects</td>
<td>starThreshInt</td>
</tr>
<tr>
<td></td>
<td>starThreshMeasuredInt</td>
</tr>
</tbody>
</table>

**Object**

starThreshFWDenyRule

<table>
<thead>
<tr>
<th>Object ID</th>
<th>enterprise.8164.2.374</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The cumulative number of FW Deny-Rules has exceeded the threshold.</td>
</tr>
<tr>
<td>Probable Cause:</td>
<td>This is a user-configurable threshold.</td>
</tr>
</tbody>
</table>
**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**

- starThreshClearFWDenyRule

**Object ID**

enterprise.8164.2.377

**Description**

The threshold condition is now clear.

**Objects**

- starThreshInt
- starThreshMeasuredInt
starThreshPHSGWSessTimeout [Deprecated]

Object ID
enterprise.8164.2.378

Object
starThreshClearPHSGWSessTimeout [Deprecated]

Object ID
enterprise.8164.2.379

Object
starThreshPHSGWSessSetupTimeout [Deprecated]

Object ID
enterprise.8164.2.380

Object
starThreshClearPHSGWSessSetupTimeout [Deprecated]

Object ID
enterprise.8164.2.381

Object
starThreshPHSGWAuthFail [Deprecated]

Object ID
enterprise.8164.2.382

Object
starThreshClearPHSGWAuthFail [Deprecated]

Object ID
enterprise.8164.2.383

Object
starThreshPHSGWMaxEAPRetry [Deprecated]

Object ID
enterprise.8164.2.384

Object
starThreshClearPHSGWMaxEAPRetry [Deprecated]

Object ID
enterprise.8164.2.385

Object
starThreshPHSGWNWEntryDenial [Deprecated]
Object ID
enterprise.8164.2.386

Object
starThreshClearPHSGWNWEntryDenial [Deprecated]

Object ID
enterprise.8164.2.387

Object
starThreshPHSGWHandoffDenial [Deprecated]

Object ID
enterprise.8164.2.388

Object
starThreshClearPHSGWHandoffDenial [Deprecated]

Object ID
enterprise.8164.2.389

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 [Deprecated]

Object ID
enterprise.8164.2.394

Object
starThreshClearPHSPCSessSetupTimeout [Deprecated]

Object ID
enterprise.8164.2.395

Object
starThreshPHSPCSleepModeTimeout [Deprecated]
Object ID: 
enterprise.8164.2.396

Object: 
starThreshClearPHSPCSleepModeTimeout [Deprecated]

Object ID: 
enterprise.8164.2.397

Object: 
starThreshPHSPCSmEntryDenial [Deprecated]

Object ID: 
enterprise.8164.2.398

Object: 
starThreshClearPHSPCSmEntryDenial [Deprecated]

Object ID: 
enterprise.8164.2.399

Object: 
starThreshSGWSessions

Object ID: 
enterprise.8164.2.408

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

Probable Cause: This is a user-configurable threshold.

Objects: 
starThreshInt 
starThreshMeasuredInt 

Object: 
starThreshClearSGWSessions

Object ID: 
enterprise.8164.2.409

Description: 
The threshold condition is now clear.

Objects: 
starThreshInt 
starThreshMeasuredInt 

Object: 

starThreshPGWSessions

Object ID
enterprise.8164.2.410

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

Probable Cause: This is a user-configurable threshold.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearPGWSessions

Object ID
enterprise.8164.2.411

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
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.
Objects

starThreshInt
starThreshMeasuredInt

Object

starThreshMAGSessions

Object ID

enterprise.8164.2.414

Description

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

Probable Cause: This is a user-configurable threshold.

Objects

starThreshInt
starThreshMeasuredInt

Object

starThreshClearMAGSessions

Object ID

enterprise.8164.2.415

Description

The threshold condition is now clear.

Objects

starThreshInt
starThreshMeasuredInt

Object

starThreshFNGCurrSess

Object ID

enterprise.8164.2.416

Description

The chassis-wide count of current FNG sessions has gone above the configured threshold.

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

Objects

starThreshInt
starThreshMeasuredInt
starThreshClearFNGCurrSess

Object ID
enterprise.8164.2.417

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

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

starThreshClearFNGCurrActSess

Object ID
enterprise.8164.2.419

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

starThreshPHSGWEAPOLAuthFailure [Deprecated]

Object ID
enterprise.8164.2.420

Object
starThreshClearPHSGWEAPOLAuthFailure [Deprecated]
Object ID
enterprise.8164.2.421

Object
starThreshPHSGWMaxEAPOLRetry [Deprecated]

Object ID
enterprise.8164.2.422

Object
starThreshClearPHSGWMaxEAPOLRetry [Deprecated]

Object ID
enterprise.8164.2.423

Object
starThreshHSGWSessions

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

Probable Cause: This is a user-configurable threshold.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshNATPortChunks

Object ID
enterprise.8164.2.425

Description
The NAT port chunks utilization of NAT pool is above the configured threshold value.

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

Objects
starIPPoolContext
starIPPoolName
starThreshInt
starThreshMeasuredInt

Object
starThreshPDGCurrSess
Object ID
enterprise.8164.2.426

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

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

Object ID
enterprise.8164.2.427

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshPDGCurrActSess

Object ID
enterprise.8164.2.428

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

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

Objects
starThreshInt
starThreshMeasuredInt

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

Object
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
terprise.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
terprise.8164.2.441

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshMMEAuthFail

Object ID
terprise.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
terprise.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
<table>
<thead>
<tr>
<th>starThreshInt</th>
</tr>
</thead>
<tbody>
<tr>
<td>starThreshMeasuredInt</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>starThreshClearCSCFSvcCallsPerInterval</th>
</tr>
</thead>
</table>

**Object ID**
enterprise.8164.2.451

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

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

<table>
<thead>
<tr>
<th>starThreshCSCFSvcTotalActiveCalls</th>
</tr>
</thead>
</table>

**Object ID**
enterprise.8164.2.452

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

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

**Objects**
- starServiceVpnName
- starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshClearCSCFSvcTotalActiveCalls

Object ID
enterprise.8164.2.453

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshCSCFSvcTotalCallFailure

Object ID
enterprise.8164.2.454

Description
The per-service CSCF Total Call Failure count has gone above the configured threshold.

Probable Cause: This is a user-configurable threshold.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshClearCSCFSvcTotalCallFailure

Object ID
enterprise.8164.2.455

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object

starThreshCSCFSvcErrorNoResource

Object ID

enterprise.8164.2.456

Description

The per-service CSCF No Resource Failure count has gone above the configured threshold.

Probable Cause: This is a user configurable threshold.

Objects

starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object

starThreshClearCSCFSvcErrorNoResource

Object ID

enterprise.8164.2.457

Description

The threshold condition is now clear.

Objects

starServiceVpnName
starServiceServName
starThreshInt
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

Object
starThreshCSCFSvcErrorPresence

Object ID
enterprise.8164.2.460

Description
The Per-Service CSCF Presence failure count has gone above the configured threshold. **Probable Cause:** This is a user-configurable threshold.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshClearCSCFSvcErrorPresence

Object ID
enterprise.8164.2.461

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt
Object

starThreshCSCFSvcErrorRegAuth

Object ID

enterprise.8164.2.462

Description

The Per-Service CSCF Reg-Auth failure count has gone above the configured threshold. **Probable Cause:** This is a user-configurable threshold.

Objects

starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object

starThreshClearCSCFSvcErrorRegAuth

Object ID

enterprise.8164.2.463

Description

The threshold condition is now clear.

Objects

starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object

starThreshBGPRoutes

Object ID

enterprise.8164.2.464

Description

The total number of BGP routes is above the configured threshold value. **Probable Cause:** This is a user-configurable threshold. If the thresholding subsystem is configured to run in alarm mode, a starThreshClearBGPNotifications notification will be generated when the measured value falls below the threshold.

Objects

starContextName
starThreshPct
starThreshMeasuredPct
**Object**

starThreshClearBGP Routes

**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
starThreshPerServicePCCQuotaSessions

Object ID
enterprise.8164.2.472

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

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshClearPerServicePCCQuotaSessions

Object ID
enterprise.8164.2.473

Description
The threshold condition is now clear.

Objects
starServiceVpnName
starServiceServName
starThreshInt
starThreshMeasuredInt

Object
starThreshPCCAFSessions

Object ID
enterprise.8164.2.474

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

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearPCCAFSessions

Object ID
enterprise.8164.2.475
Description
The total number of PCC-AF sessions in a service is above the configured threshold value.

Object IDs
- starServiceVpnName
- starServiceServName
- starThreshInt
- starThreshMeasuredInt
- starThreshPerServicePCCAFSessions

Object ID
enterprise.8164.2.476

Description
The threshold condition is now clear.

Objects
- starServiceVpnName
- starServiceServName
- starThreshInt
- starThreshMeasuredInt
- starThreshClearPerServicePCCAFSessions

Object ID
enterprise.8164.2.477

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**
- starThreshClearDnsLookupFailure

**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

<table>
<thead>
<tr>
<th>starContextName</th>
</tr>
</thead>
<tbody>
<tr>
<td>starThreshPct</td>
</tr>
<tr>
<td>starThreshMeasuredPct</td>
</tr>
</tbody>
</table>

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.
starThreshClearHNBGWHnbSess

Object ID
enterprise.8164.2.485

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshHNBGWUeSess

Object ID
enterprise.8164.2.486

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

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearHNBGWUeSess

Object ID
enterprise.8164.2.487

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshHNBGWluSess

Object ID
enterprise.8164.2.488

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

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshClearHNBGWlSess

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 [Deprecated]

Object ID
enterprise.8164.2.495

Object
starThreshHNBGWluSess

Object ID
enterprise.8164.2.496

Description
The threshold condition is now clear.

Objects
starThreshInt
starThreshMeasuredInt

Object
starThreshTpoDnsFailure [Deprecated]

Object ID
enterprise.8164.2.497

Object
starThreshClearTpoDnsFailure [Deprecated]

Object ID
enterprise.8164.2.498

Object
starThreshTpoLowCompressionGain [Deprecated]

Object ID
enterprise.8164.2.499

Object
starThreshClearTpoLowCompressionGain [Deprecated]

Object ID
enterprise.8164.2.500

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**

enterprise.8164.2.519

**Description**

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

**Objects**

- starThreshInt
- starThreshMeasuredInt

**Object**

starThreshClearPerServiceSAMOGSessions

**Object ID**

enterprise.8164.2.520

**Description**

The threshold condition is now clear.

**Objects**

- starThreshInt
- starThreshMeasuredInt
Object
starThreshNATPktDrop

Object ID
enterprise.8164.2.521

Description
The NAT packet droppeds from a NAT pool is above the configured threshold value.

Probable Cause: This is a user configurable threshold. If the thresholding subsystem is configured to run in an 'alarm' model, then a starThreshNATPktDrop notification will be generated when the measured value exceeds the threshold.

Objects
starIPPoolContext
starIPPoolName
starThreshPct
starThreshMeasuredPct

Object
starThreshClearNATPktDrop

Object ID
enterprise.8164.2.522

Description
The threshold condition is now clear.

Objects
starIPPoolContext
starIPPoolName
starThreshPct
starThreshMeasuredPct

Object
starThreshFabricEGQDiscards

Object ID
enterprise.8164.2.523

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
starGILANServiceStart

Object ID
enterprise.8164.2.525

Description
A GILAN Service has started

Objects
starServiceVpnName
starServiceServName

Object
starGILANServiceStop

Object ID
enterprise.8164.2.526

Description
A GILAN 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 GILAN service shutdown was not planned, then examine the admin logs for an indication of the failure. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the GILAN service is operational.

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

starServiceVpnName
starServiceServName

Object

starThreshAAAA acctArchiveQueue1

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 starThreshClearAAAA acctArchiveQueue1 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 starThreshClearAAAA acctArchiveQueue1 notification will be generated when the measured value falls below the threshold.

Objects

starThreshInt
starThreshMeasuredInt

Object

starThreshClearAAAA acctArchiveQueue1

Object ID

enterprise.8164.2.506

Description

The threshold condition is now clear.

Objects

starTaskInstance
starThreshPct
starThreshMeasuredPct

Object

starThreshAAAA acctArchiveQueue2

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 `starThreshClearAAACountArchiveQueue2` notification will be generated when the measured value falls below the threshold.

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

**Object**
- `starThreshClearAAACountArchiveQueue2`

**Object ID**
`enterprise.8164.2.508`

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

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

**Object**
- `starThreshClearAAACountArchiveQueue3`

**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 `starThreshClearAAACountArchiveQueue3` notification will be generated when the measured value falls below the threshold.

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

**Object**
- `starThreshClearAAACountArchiveQueue3`

**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
starOSPFFromState
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
starSS7CauseString

Object
starSCCPSspRcvd

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**
starSCCPSSspClear

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

Objects
starSGTPVpnName
starSGTPServName
starSGTPPeerAddr
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.

Objects
starSGTPVpnName
starSGTPServName
starSGTPPeerAddr

Object

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
- tarSGTPPeerPort
- 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
starSS7MP3LinkId

Object
starMTP3LinkSetUnAvailable

Object ID
enterprise.8164.2.1018

Description
MTP3 Linkset Unavailable message.

Probable Cause: All links in linkset are down or linkset was deactivated by operator.

Condition Clear Alarm: A starMTP3LinkSetAvailable message is generated when the previously down linkset is restored.

Objects
starSS7rdId
starSS7MTP3LinkSetId

Object
starMTP3LinkSetAvailable

Object ID
enterprise.8164.2.1019

Description
MTP3 linkset is now available

Objects
starSS7rdId
starSS7MTP3LinkSetId

Object
starSCTPAssociationFail

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

Probable Cause: Peer is down, or network is down, or the endpoint configuration is incorrect at our end.

Condition Clear Alarm: A starSCTPAssociationEstablished message is sent when a previously failed association is restored.

Objects
starSS7rdId
starSS7M3UAPspId
starSS7M3UAPsId

Object
starSCTPAssociationEstablished

Object ID
enterprise.8164.2.1021

Description
M3UA SCTP association established successfully. This message is only generated for peers which previously generated an Association Fail message.

Objects
starSS7rdId
starSS7M3UAPspId
starSS7M3UAPsId

Object
starSCTPPathDown

Object ID
enterprise.8164.2.1022

Description
SCTP path is down.

Probable Cause: Peer is down. Network to the remote server is down. The endpoint configuration is incorrect at our end.

Condition Clear Alarm: A starSCTPPathUp notification is generated when the path is restored.

Objects
starSS7rdId
starSS7M3UAPspId
starSS7M3UAPsId
starSS7SCTPPeerAddr
starSS7SCTPSelfAddr
starSS7SCTPPeerPort
starSS7SCTPSelfPort
starSS7CauseString

Object
starSCTPPathUp

Object ID
enterprise.8164.2.1023

Description
SCTP path up. This notification is only generated for peers which had previously generated an SCTP path down notification.

Objects
starSS7rdId
starSS7M3UAPspId
starSS7M3UAPsId
starSS7SCTPSelfAddr
starSS7SCTPSelfPort
starSS7SCTPPeerAddr
starSS7SCTPPeerPort
starSS7CauseString

starPort

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
target 8164.2.1026

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

Objects
starContextName
starASNGWSName
starBSAddress

Object
starBSUnreachable

Object ID
target 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
starASNGWSName
starBSAddress

Object
starSystemStartup

Object ID
target 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 starMTP3PCAvailable message is generated when the route to the point code is reestablished.

Objects
  starSS7rdId
  starSS7Pc
  starSS7MTP3LinkSetId

Object
  starMTP3PCAvailable

Object ID
  enterprise.8164.2.1030

Description
  MTP3 route to the point code available

Objects
  starSS7rdId
  starSS7Pc
  starSS7MTP3LinkSetId

Object
  starSS7PCUnavailable

Object ID
  enterprise.8164.2.1031

Description
  SS7 point code unavailable.
  Probable Cause: All MTP3 and M3UA routes to the point code are unavailable.
  Condition Clear Alarm: A starSS7PCAvailable message is generated when the route is reestablished.
Objects
starSS7rdId
starSS7Pc

Object
starSS7PCAvailable

Object ID
terprise.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
terprise.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
terprise.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

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.

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
starCertExpireTime

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
starCertExpireTime

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
enterprise.8164.2.1047
### Description
An FTP server switchover has been performed; that is, the system has determined that an external FTP server is unreachable, and is not using an alternate FTP server.

### Objects
- `starFTPServVpnName`
- `starFTPServIpAddr`
- `starFileApplication`

### Object ID
enterprise.8164.2.1048

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

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

### Objects
- `starSDHSlot`
- `starSDHPort`
- `starSDHOperState`

### Object ID
enterprise.8164.2.1049

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

### Objects
- `starSDHSlot`
- `starSDHPort`

### Object ID
enterprise.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

enterprise.8164.2.1051

Description

The identified SDH Path is up.

Objects

starSDHPathSlot
starSDHPathPort
starSDHPathNum

Object

starSDHLopDown

Object ID

enterprise.8164.2.1052

Description

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

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

Objects

starE1TribSlot
starE1TribPort
starE1TribPath
starE1TribTug2
starE1TribTu12
starE1TribOperStateLOP

Object

starSDHLopUp

Object ID

enterprise.8164.2.1053
Description
The identified E1 Tributary on this port is now up. A starE1TributaryUp notification is only generated if a starSDHLopDown was previously generated for this E1 tributary.

Objects
starE1TribSlot
starE1TribPort
starE1TribPath
starE1TribTug2
starE1TribTu12

Object
starSS7PCCongested

Object ID
enterprise.8164.2.1056

Description
SS7 point code is congested; all the routes to this point-code are congested.
Probable Cause: All the routes (both M3UA and MTP3) to this point code have become congested.
Condition Clear Alarm: A starSS7PCCongestionCleared notification will be generated when the congestion gets cleared for any one of the routes.

Objects
starSS7rdId
starSS7Pc
starSS7CongLevel
starSS7LocalCong

Object
starSS7PCCongestionCleared

Object ID
enterprise.8164.2.1057

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

Objects
starSS7rdId
starSS7Pc
starSS7CongLevel
starSS7LocalCong

Object ID
enterprise.8164.2.1058
Description
A PHS-GW Service has started [Deprecated]

Action to be Taken: No action required

Objects
starServiceVpnName
starServiceServName

Object
starPHSGWSERVICEStop [Deprecated]

Object ID
enterprise.8164.2.1059

Object
starGPRSSERVICEStart

Object ID
enterprise.8164.2.1060

Description
A GPRS Service has started

Action to be Taken: No action required

Objects
starServiceVpnName
starServiceServName

Object
starGPRSServiceStop

Object ID
enterprise.8164.2.1061

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

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

Clear Condition: Verify that the GPRS service is operational.

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

Objects
starServiceVpnName
starServiceServName
Object
starGPRSNseDown

Object ID
teleMIB.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

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
teleMIB.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
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 [Deprecated]

Object ID
enterprise.8164.2.1072

Object
starPHSPCServiceStop [Deprecated]

Object ID
enterprise.8164.2.1073

Object
starM3UAPSPCongested

Object ID
enterprise.8164.2.1074

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

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

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

Objects
starSS7rdId
starSS7M3UAPsId
starSS7M3UAPspId
**Object**

starSS7Pc

starSS7CongLevel

**Object ID**

enterprise.8164.2.1075

**Description**

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

**Objects**

starSS7rdId

starSS7M3UAPsId

starSS7M3UAPspId

starSS7Pc

starSS7CongLevel

---

**Object**

starStorageFailed

**Object ID**

enterprise.8164.2.1076

**Description**

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

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

**Action to be Taken:** Replace the card.

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

**Objects**

starStorageSlot

starStorageName

---

**Object**

starRaidFailed

**Object ID**

enterprise.8164.2.1077

**Description**

The specified raid array has failed. The raid array can no longer be used to store data.
Probable Cause: Hardware failure(s) on the devices within the raid array; or hardware failure(s) on the card(s) to which the devices are attached; or the removal of the cards containing devices in the array; or operator action which disabled the raid array.

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

Objects

<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>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>
</tbody>
</table>

Object

| starRaidRecovered |
Object ID
enterprise.8164.2.1080

Description
The specific raid array has been recovered and is running in its normal redundant state. This notification is only generated if a starRaidDegraded notification was previously generated for this array. As to the variable bindings, please refer to the trap starRaidDegraded.

Objects
starStorageName
starStorageSlot
starStorageName

Object
starRMCPUOver

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

Object ID
enterprise.8164.2.1219

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

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

Objects
starTaskFacilityName
starTaskInstance
starTaskCard
starTaskCPU
starThreshInt
starThreshMeasuredInt

Object
starRMCPUOverClear

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

Object ID
enterprise.8164.2.1220

Description
The CPU usage is back to normal level.
Objects

starTaskFacilityName
starTaskInstance
starTaskCard
starTaskCPU
starThreshInt
starThreshMeasuredInt

Object

starPGWServiceStart

Object ID

enterprise.8164.2.1081

Description

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

Action to be Taken: No action required.

Objects

starServiceVpnName
starServiceServName

Object

starPGWServiceStop

Object ID

enterprise.8164.2.1082

Description

A Packet Data Network Gateway (PGN) Service has stopped.

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

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

Clear Condition: Verify that the PGW service is operational.

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

Objects

starServiceVpnName
starServiceServName

Object

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
starSGWServiceStop

Object ID
enterprise.8164.2.1084

Description
A Serving Gateway (SGW) Service has stopped.
Probable Cause: This is typically caused by operator intervention. In rare cases it can be caused by the loss of hardware resources to support the running configuration.
Action to be Taken: If the SGW service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured packet processing cards are present and running in the system. Check the crash logs for an indication of a software failure.
Clear Condition: Verify that the SGW service is operational.
Condition Clear Alarm: A starSGWServiceStart notification will be generated when the service is restarted.

Objects
starServiceVpnName
starServiceServName

Object
starEGTPServiceStart

Object ID
enterprise.8164.2.1085

Description
An Evolved GPRS Tunneling Protocol (EGTP) Service has started.
Action to be Taken: No action required.

Objects
starServiceVpnName
starServiceServName

Object
starEGTPServiceStop
Object ID
enterprise.8164.2.1086

Description
An Evolved GPRS Tunneling Protocol (EGTP) Service has stopped.

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

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

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

Objects
starServiceVpnName
starServiceServName

Object
starLMAServiceStart

Object ID
enterprise.8164.2.1087

Description
A Local Mobility Anchor (LMA) Service has started.

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

Objects
starServiceVpnName
starServiceServName

Object
starLMAServiceStop

Object ID
enterprise.8164.2.1088

Description
A Local Mobility Anchor (LMA) service has stopped.

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

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

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

Objects
starServiceVpnName
starServiceUserName

Object
starMAGServiceStart

Object ID
enterprise.8164.2.1089

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

Action to be Taken: No action required.

Objects
starServiceVpnName
starServiceUserName

Object
starMAGServiceStop

Object ID
enterprise.8164.2.1090

Description
A MAG Service has stopped.

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

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

Clear Condition: Verify that the MAG service is operational.

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

Objects
starServiceVpnName
starServiceUserName

Object
starMMEServiceStart

Object ID
enterprise.8164.2.1091

Description
A Mobility Management Entity (MME) Service has started.

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

### starHSGWServiceStart

**Object ID**
enterprise.8164.2.1093

**Description**
A HRPD Serving Gateway (HSGW) Service has started.

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

### 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 starHSGWServiceStart notification will be generated when the service is restarted.

**Objects**

- starServiceVpnName
- starServiceServName

**Object**

- starCPUBusyClear

**Object ID**

enterprise.8164.2.1095

**Description**

The CPU is no longer busy.

**Objects**

- starCPUSlot
- starCPUNumber

**Object**

- starCPUMemoryLowClear

**Object ID**

enterprise.8164.2.1096

**Description**

The CPU is no longer experiencing a low memory condition.

**Objects**

- starCPUSlot
- starCPUNumber

**Object**

- starFNGServiceStart

**Object ID**

enterprise.8164.2.1097

**Description**

A FNG Service has started.

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

starServiceVpnName
starServiceServName

Object

starFNGServiceStop

Object ID
enterprise.8164.2.1098

Description

A FNG Service has stopped.

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

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

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

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

Objects

starServiceVpnName
starServiceServName

Object

starManagerRestart

Object ID
enterprise.8164.2.1099

Description

The identified manager task has been restarted.

Objects

starTaskFacilityName
starTaskInstance
starTaskCard
starTaskCPU

Object

starConfigurationUpdate

Object ID
enterprise.8164.2.1100
Description
The configuration of the chassis has been changed. This notification is generated based on a periodic polling of the chassis. It is not real-time generated based on individual changes. The configuration change could have been made via CLI sessions, CORBA management operations, or other methods. This notification is not generated by default; it is only generated if the configuration polling mechanism is specifically enabled.

Object
starPDGServiceStart

Object ID
enterprise.8164.2.1101

Description
A PDG Service has started

Action to be Taken: No action required.

Objects
starServiceVpnName
starServiceServName

Object
starPDGServiceStop

Object ID
enterprise.8164.2.1102

Description
A PDG Service has stopped.

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

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

Clear Condition: Verify that the PDG service is operational.

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

Objects
starServiceVpnName
starServiceServName

Object
starDynPkgLoadError

Object ID
enterprise.8164.2.1103

Description
The Dynamic rater package error displayed with an error code.
Condition Clear Alarm: This condition is cleared by a starDynPkgLoadErrorClear notification.

Objects
starDynPkgFilename
starDynCFErrorCode

Object
    starDynPkgLoadErrorClear

Object ID
enterprise.8164.2.1104

Description
The error condition was removed.

Objects
starDynPkgFilename
starDynCFErrorCode

Object
    starDynPkgUpgradeError

Object ID
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
enterprise.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
enterprise.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
enterprise.8164.2.1119

Description
No response received for GTP-U ECHO requests. Data path failure detected towards peer EPC Node. Check if the peer RNC or GSN is up.

Probable Cause: Remote EPC node is down.

Condition Clear Alarm: A starEgtpuPathFailureClear notification will be generated when the data path towards the peer node is available.

Objects
starEGTPVpnName
starEGTPServName
starEGTPSelfAddr
starEGTPPeerAddr
starEGTPSelfPort
starEGTPPeerPort
starEGTPPeerSessCnt

Object
starEgtpuPathFailureClear

Object ID
enterprise.8164.2.1120

Description
The data path to the peer EPC node which was down is now available. A starEgtpuPathFailureClear notification is only generated for nodes which had previously generated a starEgtpuPathFailure notification.

Objects
starEGTPVpnName
starEGTPServName
starEGTPSelfAddr
starEGTPPeerAddr
starEGTPSelfPort
starEGTPPeerPort

Object
starStorageServerCDRLoss

Object ID
enterprise.8164.2.1121

Description
GTPP Storage Server is experiencing CDR Loss greater than the configured threshold value at the GSS.
Objects  
starSessGGSNVpnName  
starSessGGSNPeerAddr  
starGSSCDRLossConfigured  
starGSSCDRLossMeasured  
starGSSClusterName  
starGSSClusterNodeName  

Object  
starHNBGWServiceStart  

Object ID  
enterprise.8164.2.1122  

Description  
A Home Node B Gateway (HNB GW) Service has started  

Action to be Taken: No action required  

Objects  
starServiceVpnName  
starServiceServName  

Object  
starHNBGWServiceStop  

Object ID  
enterprise.8164.2.1123  

Description  
A Home Node B Gateway (PGN) Service has stopped.  

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

Action to be Taken: If the HNB GW service shutdown was not planned, examine the 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.
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
starPortSlot
starIfIndex
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
starHNBGWSGSNRanapReset

Object ID
enterprise.8164.2.1155

Description
HNBGW has received RANAP Reset event from SGSN.

Objects
starSessHNBGWVpnName
starSessHNBGWServName
starSessHNBGWPsnWName
starSessHNBGWGsmPtCd

Object
starHNBGWMSGRanapReset

Object ID
enterprise.8164.2.1156

Description
HNBGW has received RANAP Reset event from MSC.

Objects
starServiceVpnName
starSessHNBGWGsmName
starSessHNBGWSnsWName
starSessHNBGWGsmPtCd

Object
starALCAPNodeReset

Object ID
enterprise.8164.2.1157
**Description**: HNBGW has received ALCAP Node Reset from MGW.

**Objects**
- starSessALCAPVpnName
- starSessALCAPServName
- starSessALCAPNodeName

**Object**
- starALCAPPPathReset

**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
- starSessALCAPPPathId

**Object**
- starALCAPPPathBlock

**Object ID**
- enterprise.8164.2.1159

**Description**: HNBGW has received ALCAP Path Block from MGW.

**Objects**
- starSessALCAPVpnName
- starSessALCAPServName
- starSessALCAPNodeName
- starSessALCAPPPathId

**Object**
- starALCAPPPathUnBlock

**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
timezone.

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
timezone.

Description
A BNG Service has started.

Action to be Taken: No action required

Objects
starServiceVpnName
starServiceServName

Object
starBNGServiceStop

Object ID
timezone.

Description
A BNG Service has stopped.
**Probable Cause**: This is typically caused by operator intervention. In unusual cases it can be caused by the loss of packet processing card resources to support the running configuration.

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

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

**Objects**

starServiceVpnName  
starServiceServName

---

**Object**

starMMES1AssocFail

**Object ID**

enterprise.8164.2.1167

**Description**

An S1 Association between an MME service and an eNodeB has failed.

**Action to be Taken**: If the shutdown of the eNodeB was not planned, determine the health/status of the eNodeB. If available, verify the health of the network between the two elements.

**Clear Condition**: The condition is cleared when the S1 Association is reestablished.

**Condition Clear Alarm**: A starMMES1AssocEstab notification will be generated when the S1 association is re-established.

**Objects**

starMMES1AssocVpnName  
starMMES1AssocServName  
starMMES1AssocENBID

---

**Object**

starMMES1AssocSetup

**Object ID**

enterprise.8164.2.1168

**Description**

An S1 Association between an MME service and an eNodeB has been established. Normally a starMMES1AssocSetup notification would be generated only for an associated which had previously failed, but optionally this notification can be generated for any association setup.

**Objects**

starMMES1AssocVpnName  
starMMES1AssocServName  
starMMES1AssocENBID
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
starSessGTPPGroupName

Object
starCdrHDDStart

Important: This trap has been deprecated.

Object ID
enterprise.8164.2.1239

Description
CDRs are being written to the HDD

Probable Cause: All CGF servers under mentioned gtpp 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 gtpp 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

---

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

---

starLocalUserAdded
Object ID
enterprise.8164.2.1180

Description
A local user was added to the system.

Probable Cause: A command was issued which resulted in a new user being added to the local user database. If this was not a planned action then further investigation is advised.

Objects
starCLIContext
starCLIUsername
starCLITtyname
starCLIRemoteIpAddrType.
starCLIRemoteIpAddr
starCLIDatabaseUsername
starCLIPrivs

Object
starLocalUserRemoved

Object ID
enterprise.8164.2.1181

Description
A local user was removed from the system.

Probable Cause: A command was issued which resulted in an existing user being removed from the local user database. If this was not a planned action then further investigation is advised.

Objects
starCLIContext
starCLIUsername
starCLITtyname
starCLIRemoteIpAddrType.
starCLIRemoteIpAddr
starCLIDatabaseUsername

Object
starLocalUserPrivilegeChanged

Object ID
enterprise.8164.2.1182

Description
A local user's privileges were modified.
**Probable Cause:** A command was issued which resulted in an existing user's privileges being modified. If this was not a planned action then further investigation is advised.

**Objects**

- starCLIContext
- starCLITtynamen
- 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
- starCLITtynamen
- 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
- starCLITtynamen
**starCLIRemoteIpAddr**

**starCLIRemoteIpAddrType**

**Object**

**starLicenseFeaturesModified**

**Object ID**

enterprise.8164.2.1185

**Description**

A user has manually modified the StarOS license feature set through the CLI.

**Probable Cause:** A command was issued which resulted in a user modifying the set of licensed features. This ability was only intended for maintenance and diagnostic activity and could result in major service disruptions. If this action was not intentional, the user should restore the original license feature set.

**Objects**

starCLIContext

starCLIUsername

starCLITtyname

starCLIRemoteIpAddr

starCLIRemoteIpAddrType.

**Object**

**starHiddenAccessEnabled**

**Object ID**

enterprise.8164.2.1186

**Description**

An administrator has explicitly enabled the use of hidden test commands.

**Probable Cause:** A command was configured which resulted in users having access to the specific test commands which may have been previously unavailable. If this action was not intentional, the user should disable access to the hidden test commands.

**Objects**

starCLIContext

starCLIUsername

starCLITtyname

starCLIRemoteIpAddr

starCLIRemoteIpAddrType.

**Object**

**starHiddenAccessDisabled**

**Object ID**

enterprise.8164.2.1187
Description
An administrator has explicitly disabled the use of hidden test commands.

**Probable Cause:** A command was configured which resulted in users no longer having access to specific test commands which may have been previously available. If this action was not intentional, the user should re-enable access to the hidden test commands.

**Objects**
- starCLIContext
- starCLIUsername
- starCLITtyname
- starCLIRemoteIpAddr
- starCLIRemoteIpAddrType

**Object**
- starLawfullInterceptChanged

**Object ID**
enterprise.8164.2.1188

**Description**
Original Lawful Intercept configured by Admin is changed by Admin.

**Objects**
- starCLIUsername

**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
starECSTotalDNSLearntIPv4ThresholdInstance
starECSTotalDNSLearntIPv4Thresholdconfigured
starECSTotalDNSLearntIPv4Thresholdmeasured

Object
starECSTotalDNSLearntIPv4ThresholdClear

Object ID
enterprise.8164.2.1199

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

Objects
starECSTotalDNSLearntIPv6ThresholdInstance
starECSTotalDNSLearntIPvThresholdconfigured
starECSTotalDNSLearntIPvThresholdmeasured

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
starECSTotalDNSLearntIPvThresholdInstance
starECSTotalDNSLearntIPThresholdconfigured
starECSTotalDNSLearntIPThresholdmeasured

Object
starECSTotalDNSLearntIPv6ThresholdClear

Object ID
enterprise.8164.2.1201

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

Objects
starECSTotalDNSLearntIPThresholdInstance
starECSTotalDNSLearntIPThresholdconfigured
starECSTotalDNSLearntIPThresholdmeasured

Object
starIPSecNodeIpv6PeerDown

Object ID
enterprise.8164.2.1202

Description
A Node Service peer has stopped responding. This peer is reached using an IPv6 address. For IPv4-connected peers, a starIPSecNodePeerDown notification would be generated.

Problem Cause: The IPSec Node peer has failed, or a network connectivity problem exists.

Condition Clear Alarm: A starIPSecNodeipv6PeerUp notification will be generated when the peer is up.

Objects
starServiceVpnName
starServiceServName
starPeerAddressIpv6

Object
starIPSecNodeipv6PeerUp

Object ID
enterprise.8164.2.1203

Description
A Node Service peer is back online. This peer is reached using an IPv6 address. For IPv4-connected peers, a starIPSecNodePeerUp notification would be generated.

Objects
starServiceVpnName
starServiceServName
starPeerAddressIpv6

Object
starLAGGroupDown

Object ID
enterprise.8164.2.1204

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

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

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
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

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

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

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

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.
Objects
starTaskFacilityName
starTaskInstance
starTaskCard
starTaskCPU
starThreshInt
starThreshMeasuredInt

Object
starSGSNRMMemWarnClear

Object ID
enterprise.8164.2.1218

Description
The memory usage for the proclet is coming back to normal once warned. This event is generated when current memory usage reaches below 90% of allocated limit once warned.

Important: This figure has changed from 90 to 95 percent for this release.

Objects
starTaskFacilityName
starTaskInstance
starTaskCard
starTaskCPU
starThreshInt
starThreshMeasuredInt

Object
starSGSNRMMemOver

Object ID
enterprise.8164.2.1221

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

Object ID enterprise.8164.2.1224
Description
Clear Session Manager Flows Counting Trap, This event is generated when the number of flows in a session manager instance goes below the configured threshold. It will also print the PDN number, memory usage, and sess manager instance number.

Objects
- starSessMgrFlowInstId
- starSessMgrFlowPDNNo
- starSessMgrFlowMemUsage
- starSessMgrFlowCounter
- starSessMgrTotalFlowCount

Object 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
starStorageFound

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 `starHENBGWMMESCTPAIIAssocDownClear` notification will be generated when at least one HENBGW MME SCTP association is up.

**Objects**
- `starHENBGWServiceVpnName`
- `starHENBGWServiceServName`

**Object**
- `starHENBGWMMESCTPAIIAssocDownClear`

**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`
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

starNPDBConnectionUp

Object ID
enterprise.8164.2.1232

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

Objects
starTaskFacilityName
starTaskInstance
starNwReachSrvrAddr

starNPUMissedARPFrames

Object ID
enterprise.8164.2.1233

Description
This trap will be raised when NPU misses the ARP and packets route to kernel. This will print the slot number CPU number and NPU number.

Objects
starNPUSlotNumber
starNPUCPUNumber
starNPUNPUNumber
**Object**

starNPUMissedARPFramesClear

**Object ID**

enterprise.8164.2.1234

**Description**

This clear trap will be raised when NPU misses the ARP and packets route to kernel recovers. This will print the slot number CPU number and NPU number.

**Objects**

starNPUSlotNumber
starNPUCPUNumber
starNPUNPUNumber

**Object**

starChassisCrashListFull

**Object ID**

enterprise.8164.2.1234

**Description**

Chassis crash list is reached full. This notification is generated when no more space is left to store the crash list and reached to disk limit.

**Objects**

starChassisCrashList

**Object**

starSessMgrCSCFServiceRecoveryComplete

**Object ID**

enterprise.8164.2.1236

**Description**

Indicates that the CSCF Service had completed recovery.

This trap is generated when all the calls are recovered and the listen socket becomes active to accept packets

**Objects**

starServiceVpnName
starServiceServName
starTaskInstance
starCPUSlot
starCPUNumber
starECSreaddressServerDown

Object ID
time 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
time 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
time enterprise.8164.2.1245

Description
CDRs are being written to the HDD.

Objects
starServiceVpnName
starSessGTPPGroupName

starCdrStreamingStart

Object ID
time enterprise.8164.2.1245

Description
CDR streaming is started.

Objects
starServiceVpnName
starSessGTPPGroupName
Object ID
enterprise.8164.2.1245

starCdrStreamingComplete

Object ID
enterprise.8164.2.1245

Description
CDR streaming is Completed

Objects
starServiceVpnName
starSessGTPPGroupName

starVLRDown

Object ID
enterprise.8164.2.1245

Description
A VLR is down

Probable Cause: The VLR has failed, or a network connectivity prevents reaching the VLR.

Condition Clear Alarm: A starVLRUp notification will be generated when the VLR is up.

Objects
starSGSServiceVpnName
starSGSServiceServName
starVLRName

starVLRUp

Object ID
enterprise.8164.2.1245

Description
A VLR is up. This notification is only generated for VLRs which have previously been declared down.

Objects
starSGSServiceVpnName
starSGSServiceServName
starVLRName
starPCFReachable

Object ID  
enterprise.8164.2.1245

Description  
A PCF that the IMG communication is reachable.

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.

Objects  
starPeerAddress  
StarUDPPortNum  

Object
### 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

### starCdrHDDStart

**Object ID**
enterprise.8164.2.1237

**Description**
CDRs are being written to the HDD.

**Objects**
- starServiceVpnName
- starSessGTPPGroupName

### starCdrStreamingStart

**Object ID**
enterprise.8164.2.1237

**Description**
CDR streaming is started

**Objects**
- starServiceVpnName
- starSessGTPPGroupName

### 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

---

starVLRUp

**Object**

**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

---

starPCFReachable

**Object**

**Object ID**
enterprise.8164.2.1237

**Description**
A PCF that the IMG communication is reachable.

**Objects**
- starContextName
- starPCFAddress

---

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
starCGWServoceStop

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 starCGWServceStart notification will be generated when the service is restarted

Objects
starServiceVpnName
starServiceServName

Object
starMMENewConncetionsNotAllowed

Object ID
enterprise.8164.2.1237

Description
The demultiplexer on the MME chassis has reached a condition where new connections are being dropped/rejected on MME services due to the specified reason. Please note that this is the initial trigger for this condition. More reasons/triggers may be activated later, after the trap has been sent. These are not indicated via a new trap.

Any one of the following reasons could trigger a trap indicating that new connections are being rejected or dropped. Please note that the congestion control feature generates its own set of traps to indicate/clear a congestion condition. However if new connections are being disallowed due to congestion, both sets of traps may be generated. Below is the description of the IMSImgr resource monitored by this trap and the corresponding action.

<table>
<thead>
<tr>
<th>Resource</th>
<th>Configurability to drop/reject</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resource</td>
<td>Configurability to drop/reject</td>
<td>Actions</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>--------------------------------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>Selected 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
- 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

---

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

---

starCardSwitchoverStart

**Object ID**
enterprise.8164.2.1237

**Description**
A management card (SPC/MMIO) switchover operation has begun. The first varbind identifies from which management card switchover started. The second varbind identifies to which management card switchover is planned to switch. Switchover can cause a momentary loss of communication through the management interface (SPIO incase of ASR5000), it is possible that this trap will not be successfully delivered.
**Probable Cause:** This is typically caused by an operator action; it can also represent the system recovering from a software or hardware fault.

**Action to be Taken:** If the management card switchover was unplanned, the admin logs should be examined for the cause of the switchover. If the cause was a software failure, the system crash logs should be examined.

**Clear Condition:** Verify the management card switchover completed successfully.

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

### Objects
- starSlotNum
- starSlotNum

#### 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
- starSlotNum
- starSlotNum

#### 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
- starSlotNum
- starSlotNum
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
- starCLIUusername
- starCLITtiname
- 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
- starPMIPServAddrType
- starPMIPServAddr
- starPMIPPeerAddrType
- starPMIPPeerAddr
- starPMIPPeerOldRstCnt
- starPMIPPeerNewRstCnt
- starPMIPPeerSessCnt
- starPMIPFailureReason
starPMIPPathFailureClear

Object ID
enterprise.8164.2.1237

Description
PMIP Control Path Failure condition is no longer valid.

Objects
starPMIPvpnName
starPMIPServName
starPMIPSelfAddrType
starPMIPSelfAddr
starPMIPPeerAddrType
starPMIPPeerAddr

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

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
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
enterprise.8164.2.1265

Description
A Multi Radio Management (MRME) 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 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

Object
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 the 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

starBFD_sessUp

Object ID

enterprise.8164.2.1276

Description

The BFD Session to the specified IP address is operational. This may indicate the initial configuration of a new neighbor, the initial connectivity after a system restart, or the restoration of connectivity after a starBFD_sessDown event.

Action to be Taken: No action required.
Objects
starContextName
starBfdSrcAddressType
starBfdSrcAddress
starBfdDstAddressType
starBfdDstAddress
starBfdLocalDisc
starBfdRemDisc
starPhyPortId

Object
starBFDsessDown

Object ID
enterprise.8164.2.1277

Description
The BFD Session to the specified IP address is no longer operational.

Probable Cause: The BFD Session is not-operational. The network between the ASR 5x00 and the BFD Neighbor is experiencing an outage. Look into the Diagnostic Code for further details.

Action to be Taken: Verify the BFD Session is operational and verify network connectivity to the BFD Neighbor.

Condition Clear Alarm: A starBFDsessUp is generated when connectivity is reestablished.

Objects
starContextName
starBfdSrcAddressType
starBfdSrcAddress
starBfdDstAddressType
starBfdDstAddress
starBfdLocalDisc
starBfdRemDisc
starBfdSessDiagCode,
starPhyPortId

Object
starSRPSwitchoverOccured
Object ID
enterprise.8164.2.1278

Description
An SRP (ICSR) Switchover occurred. The chassis transitioned from Active to Standby State or the chassis transitioned from Standby to PendingActive State.

Action to be Taken: Verify Active and Standby Chassis States of ICSR pair.

Objects
starContextName
starSRPIpAddress
starSRPSwitchReason

Object
starHENBGWMMEMEOverloadStart

Object ID
enterprise.8164.2.1279

Description
A HENBGW MME Overload Start message received.

Condition Clear Alarm: A starHENBGWMMEMEOverloadStop notification will be generated when the HENBGW MME overload stop message is received.

Objects
starHENBGWSERVICEVpnName
starHENBGWSERVICEServName
starHENBGWSERVICELogicalENBId
starHENBGWSERVICEMMEServName
starHENBGWSERVICEPeerAddr
starHENBGWSERVICEPeerPort
starHENBGWSERVICETLSRI

Object
starHENBGWMMEMEOverloadStop

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
starHENBGWSERVICEVpnName
starHENBGWServiceServName
starHENBGWServiceLogicalENBId
starHENBGWServiceMMEServName
starHENBGWServicePeerAddr
starHENBGWServicePeerPort

Object
starNpudriverECCError

Object ID
enterprise.8164.2.1281

Description
A double bit ECC error occurred.
Action to be Taken: RMA this card

Objects
starSlotNum

Object
starGTPCRLFOverThreshold

Object ID
enterprise.8164.2.1282

Description
GTP RLF Status update - GTP RLF Over Threshold.

Objects
starGTPCRLFSessMgrInst
starGTPCRLFVPNNName
starGTPCRLFVPNId
starGTPCRLFContextName
starGTPCRLFCurrAppTPS

Object
starGTPCRLFOverLimit

Object ID
enterprise.8164.2.1283

Description
GTP RLF Status update - GTP RLF Over Limit.

Objects
starGTPCRLFSessMgrInst
starGTPCRLFVPNNName
starGTPCRLFVPNId
starGTPCRLFContextName
starGTPCRLFCurrAppDelayTol

Object
starGTPCRLFOverThresholdClear

Object ID
terprise.8164.2.1284

Description
GTP RLF Status update - GTP RLF Over Threshold Cleared.

Objects
starGTPCRLFSessMgrInst
starGTPCRLFVPNName
starGTPCRLFVPNId
starGTPCRLFContextName

Object
starGTPCRLFOverLimitClear

Object ID
terprise.8164.2.1285

Description
GTP RLF Status update - GTP RLF Over Limit Cleared.

Objects
starGTPCRLFSessMgrInst
starGTPCRLFVPNName
starGTPCRLFVPNId
starGTPCRLFContextName

Object
starS102ServiceStart

Object ID
terprise.8164.2.1286

Description
An S102 Service has started.

Objects
starServiceVpnName
starServiceServName
Object
starS102ServiceStop

Object ID
enterprise.8164.2.1287

Description
An S102 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 S102 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 S102 service is operational.

Condition Clear Alarm: A starS102ServiceStart notification will be generated when the service is restarted.

Objects
starServiceVpnName
starServiceServName

Object
starBGPPeerSessionIPv6Up

Object ID
enterprise.8164.2.1288

Description
The BGP peer session to the specified IP v6 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.

Objects
starContextName
starBGPPeerIpv6Address

Object
starBGPPeerSessionIPv6Down

Object ID
enterprise.8164.2.1289

Description
The BGP peer session to the specified IP v6 address is no longer operational.

Probable Cause: The BGP peer is not-operational. The network between the ST16 and the BGP peer is experiencing an outage; LC failure(s) on the ST16.

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

Condition Clear Alarm: A starBGPPeerSessionUp is generated when connectivity is re-established.
Objects
starContextName
starBGPPeerIpv6Address

Object
starMMEEMBMSServiceStart

Object ID
enterprise.8164.2.1290

Description
An MME-EMBM Service has started.

Objects
starServiceVpnName
starServiceServName

Object
starMMEEMBMSServiceStop

Object ID
enterprise.8164.2.1291

Description
An MME-EMBM Service has stopped.

Probable Cause: This is typically caused by operator intervention when a critical parameter associated with mme-embms-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 MME-EMBMS service shutdown was not planned, then 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 mme-embms-service related configuration errors by running show configuration errors section mme-embms-service. Also, check the crash logs for any indication of a software failure.

Objects
starServiceVpnName
starServiceServName

Object
starMCEAssocDown

Object ID
enterprise.8164.2.1292

Description
An MCE Association is down.

Probable Cause: SCTP connection between MME and MCE has been brought down. It could be for any of the following reasons.
- Network connectivity between MME and MCE is broken.
- MCE has gracefully terminated the SCTP association with MME.
- MME has gracefully terminated the SCTP association with MCE, typically due to operation intervention that would have effected mme-embms-service.

**Action to be Taken:** Check for network connectivity between MME and MCE when the SCTP association between MME and MCE is abnormally closed.

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

**Objects**
- starMMEEMBMSServiceVpnName
- starMMEEMBMSServiceServName
- starPeerId
- starPeerIpAddr
- starPeerPortNum

**Object**
- starMCEAssocUp

**Object ID**
- enterprise.8164.2.1293

**Description**
A MCE Association is up.

**Objects**
- starMMEEMBMSServiceVpnName
- starMMEEMBMSServiceServName
- starPeerId
- starPeerIpAddr
- starPeerPortNum

**Object**
- starIuBcTcpConnDown

**Object ID**
- enterprise.8164.2.1294

**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 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 connection termination is abnormal, an IuBcTCPConnUp notification will be generated when the TCP connection is up.

**Objects**
- starCBSserviceVpnName
- starIuBcSelfIpAddr
- starIuBcSelfPortNum
- starIuBcPeerIpAddr
- starIuBcPeerPortNum
- starIuBcTcpConnCauseStr

**Object**
starIuBcTcpConnUp

**Object ID**
enterprise.8164.2.1295

**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.
- enterpriseSpecific.
Chapter 3
Starent Chassis Conformances

This chapter identifies the objects for which compliant information is provided on the chassis.
Mib Textual Conventions

This section describes the MIBGroups and MIBCompliances for the chassis

enterprise.8164.starentMIBConformances(3)

enterprise.8164.3.starentMIBGroups(1)

Object

starChassisGroup

Object ID

enterprise.8164.3.1.1

Description

A collection of objects providing information about a chassis.

Objects

starChassisCriticalCO
starChassisMajorCO
starChassisMinorCO
starChassisAudibleAlarm
starChassisUTCTime
starChassisLocalTime
starChassisType
starChassisAction
starTimeTicks
starChassisDescription
starChassisSWRevision
starChassisPeakCpuUsage
starChassisPeakMemoryUsage
starSlotType
starCardType
starCardOperState
starCardAdminState
starCardRevision
starCardLastStateChange
starCardMode
starCardPacStandbyPriority
starCardLock
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
starSessInProgAuthenticating
starSessInProgAuthenticated
starSessInProgIPCPUp
starSessInProgSIPConn
starSessInProgMIPConn
starSessInProgDisc
starSessMgrCount
starSessTtlArrived
starSessTtlRejected
starSessTtlConnected
starSessTtlAuthSucc
starSessTtlAuthFail
starSessTtlLCPUp
starSessTtlIPCPUp
starSessTtlSrcViol
starSessTtlKeepFail
starSessTtlOctForwarded
starSessTtlRPRRegAccept
starSessTtlRPRRegAcceptInterPDSN
starPPPCurrSessions
starSessTtlTxBytes
starSessTtlRxBytes
starSessTtlSIPTxBytes
starSessTtlSIPRxBytes
starSessTtlMIPTxBytes
starSessTtlMIPRxBytes
starSessTtlOctForwardedGB
starSessTtlOctForwardedRev1
starSessTtlTxBytesRev1
starSessTtlRxBytesRev1
starSessTtlSIPTxBytesRev1
starSessTtlSIPRxBytesRev1
starSessTtlMIPTxBytesRev1
starSessTtlMIPRxBytesRev1
starSessTtlOctForwardedGBRev1
starAAAMgrCount
starAAATtlRequests
starAAATtlAuthRequests
starAAATtlAcctRequests
starAAACurRequests
starAAACurAuthRequests
starAAACurAcctRequests
starAAATtlAcctSess
starAAACurAcctSess
starAAATtlAuthSuccess
starAAATtlAuthFailure
starA11MgrCount
starA11TtlArrived
starA11TtlRejected
starA11TtlDemultiplexed
starA11TtlDereg
starA11CurActive
starHAMgrCount
starHATtlArrived
starHATtlRejected
starHATtlDemultiplexed
starHATtlDereg
starHACurActive
starFAMgrCount
starFATtlArrived
starFATtlRejected
starFATtlDemultiplexed
starFATtlDereg
starFACurActive
starServiceVpnName
starServiceServName
starServiceSubLimit
starServiceSubCurrent
starServiceType
starServiceFAlpAddr
starServiceHAIpAddr
starCLITtyname
starCLIPrivs
starCLIType
starCLIRemoteIpAddrType
starCLIRemoteIPAddr
starCLIContext
starTaskFacilityName
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starPPPStatIpipEntered
starPPPStatRenegPdsn
starPPPStatRenegMobil
starPPPStatRenegAddrMismatch
starPPPStatRenegOther
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starPPPStatDeflComp
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starRPRegUpdDenyAdminProhib
starRPRegUpdDenyAuth
starRPRegUpdDenyMismatchID
starRPRegUpdDenyBadRequest
starRPSecViolations
starRPSecBadAuth
starRPSecBadID
starRPSecBadSpi
starRPSecMissingMnHAAuth
starRPSecMissingRegUpdate
starRPRegRecvInitial
starRPRegAcceptActvStartIntraPDSN
starRPRegAcceptActvStopIntraPDSN
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starRP1xTxPackets
starRP1xRxPackets
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starRPDoRxBytes
starRPDoTxPackets
starRPDoRxPackets
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starSubName
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starSubLongDurTimeoutAction
starSubSetupTime
starSubHomeAddr
starSubHomeAddrv6
starEISServerVPNName
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starThreshPct
starThreshMeasuredInt
starThreshInt
starThreshMeasuredMB
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starThreshMeasuredGB
starThreshGB
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starPortOperMode
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starPortTXFrames
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starPortTxDiscards
starPortRxErrors
starPortTxErrors
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starIPPoolGroupFree
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starCurrentSessions
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starInterfaceIPaddress
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starOSPFFromState
starOSPFToState
starDiameterEncoderString
starDiameterECode
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starContFiltCFUpgradeErrorCode
starBLUpgradeFilename
starBLUpgradeErrorCode
starDynPkgFilename
starDynCFErrorCode
starDynPkgUpgradeFilename
starDynCFUpgradeErrorCode
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starSessGGSNPeerAddr
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starSessGGSNSubsName
starSessGGSNAPNName
starSessGTPGroupName
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starL2TPPeerTunnelID
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starL2TPServiceTypeName
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starL2TPPeerAddress
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starSIPRouteVmgName
starSIPRouteAsName
starSIPRouteDestPartyNum
starSIPRouteReqNum
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starSIPRouteServerVmgName
starSIPRouteServerAsName
starSIPRouteServerIpAddr
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starVIMServiceFMDMaxCallRate
starVIMServiceFMDContinuousLoadCount
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starGSSClusterNodeName
starGSSClusterRgName
starGSSClusterRsName
starGSSClusterNodeState
starGSSClusterPrevOnlineNode
starGSSClusterFromNode
starGSSClusterToNode
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starGSSTransportPath
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starGSSInterfaceName
starRPServiceOptionCalls
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starPCFStatCurrentL2TPLACConnected
starPCFStatCurrentOtherConnected
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starPCFDiscDetectionFail
starPCFDiscMisc
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starPCFCurrRevaSessions
starPCFRevaSessionsSetup
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starPDIFSysSessCurrDormant
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starSGTPPeerPort
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starCertIssuer
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starCSCFPeerServerListName,
starCSCFPeerServerName
starCSCFPeerServerState
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starSDHPathOperState
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starE1TribOperState
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starPDGSessCurrentActive
starPDGSessCurrentDormant
starPDGSessCurrentIpv6Active
starPDGSessCurrentIpv6Dormant
starPDGSessCurrentIpv4Active
starPDGSessCurrentIpv4Dormant
starPDGBindIpAddress
starPDGBindIpPort
starPDGBindSlot
starPDGBindPort
starEGTPVpnName
starEGTPServName
starEGTPIfaceType
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
starSessHNBGWPsNwName
starSessHNBGWGsnpPtCd
starSessHNBGWMscPtCd
starHENBGWServicexVpnName
starHENBGWServicexServName
starHENBGWServicexLogicalENBId
starHENBGWServicexMMEServName
starHENBGWServicexPeerAddr
starHENBGWServicexPeerPort
starHENBGWServicexTLRI
starSessALCAPVpnName
starSessALCAPServName
starSessALCAPAAL2NodeName
starSessALCAPPathId
starMVGEendpointName
starMVGCauseCode
starMVGProtocolType
starPPCNtfyIntfPeerName
starPMIPvtnName
starPMIPServName
starPMIPSelfAddrType
starPMIPSelfAddr
starPMIPPeerAddrType
starPMIPPeerAddr
starPMIPPeerOldRstCnt
starPMIPPeerNewRstCnt
starPMIPPeerSessCnt
starPMIPFailureReason
starCBSServiceVpnName
starIuBCSSelfPortNum
starIuBSelfIpAddr
starIuBPeerPortNum
starIuBPeerIpAddr
starIuBCTcpConnCauseStr
starNpudriverECCError

**Object**

starAlertGroup
Object ID
enterprise.8164.3.1.3

Description
A collection of objects to control the rate at which traps can be generated.

Objects
starMaxAlertsPerTime
starWindowTime
starAlertSendingEnabled

Object
starAlertTrapGroup

Object ID
enterprise.8164.3.1.4

Description
A collection of traps related to trap thresholding.

Notifications
starAlertsDisabled
starAlertsEnabled

Object
starTrapGroup

Object ID
enterprise.8164.3.1.4

Description
A collection of objects which represent required notifications.

Objects
starCardTempOverheat
starCardTempOK
starCardReset
starCardRebootRequest
starCardUp
starCardVoltageFailure
starCardRemoved
starCardInserted
starCardBootFailed
starCardFailed
starCardSWFailed
starCardRCCFailed
starCardMismatch
starCardFailureLEDOn
starCardFailureLEDOff
starCardPACMigrateStart
starCardPACMigrateComplete
starCardPACMigrateFailed
starCardSPCSwitchoverStart
starCardSPCSwitchoverComplete
starCardSPCSwitchoverFailed
starFanFailed
starFanRemoved
starFanInserted
starLogThreshold
starCPUBusy
starCPUMemoryLow
starCPUMemoryFailed
starCPUFailed
starCPUWatchDogExpired
starNPUARPPoolExhausted
starPowerFilterUnitFailed
starPowerFilterUnitUnavail
starPowerFilterUnitAvail
starAlertsDisabled
starAlertsEnabled
starAAAAuthServerUnreachable
starAAAAuthServerReachable
starAAAAuthServerMisconfigured
starAAAAccServerUnreachable
starAAAAccServerReachable
starAAAAccServerMisconfigured
starLogMsg
starPDSNServiceStart
starPDSNServiceStop
starHAServiceStart
starHAServiceStop
starFAServiceStart
starFAServiceStop
starCLISessionStart
starCLISessionEnd
starCritTaskFailed
starCardActive
starLACServiceStart
starLACServiceStop
starLNSServiceStart
starLNSServiceStop
starCardDown
starGGSNServiceStart
starGGSNServiceStop
starLicenseExceeded
starSubscriberLimit
starSessionRejectNoResource
starSIPServiceStart
starSIPServiceStop
starVIMServiceStart
starVIMServiceStop
starCHATCONFServiceStart
starCHATCONFServiceStop
starSIPRouteNomatch
starl3addrunreachable
starSWUpgradeStart
starSWUpgradeComplete
starSWUpgradeAborted
starBGPPeerSessionUp
starBGPPeerSessionDown
starSRPActive
starSRPStandby
starBGPPeerReachable
starBGPPeerUnreachable
starSRPAAAReachable
starSRPAAAUnreachable
starHASwitchoverInitiated
starSRPCheckpointFailure
starSRPConfigOutOfSync
starSRPConfigInSync
starGESwitchFailure
starSIPRouteServerAvailable
starSIPRouteServerUnavailable
starFMDMaxCallRateReached
starFMDCallRateUnderControl
starStorageServerCPUBusy
starStorageServerCPUNormal
starStorageServerDiskSpaceLow
starStorageServerDiskSpaceOK
starCardSPOFAlarm
starCardSPOFClear
starStorageServerOldGcdrPending
starStorageServerOldGcdrCleared
starLoginFailure
starIPSGServiceStart
starIPSGServiceStop
starHAUnreachable
starHAReachable
starASNGWServiceStart
starASNGWServiceStop
starTaskFailed
starTaskRestart
starCSCFServiceStart
starCSCFServiceStop
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
starPCFUnreachable
starPCFReachable
starLIRcvryError
starLIRcvryComplete
starCGWServiceStart
starCGWServiceStop
starDhcpAlive
starDhcpDead
starDhcpServiceStarted
starDhcpServiceStopped
starNTPPeerUnreachable
starNTPSyncLost
starL2TPTunnelDownPeerUnreachable
starCardStandby
starLicenseUnderLimit
starIPSECPriTunDown
starIPSECPriTunUp
starIPSECSecTunDown
starIPSECSecTunUp
starIPSECTunSwitchFail
starIPSECTunSwitchComplete
starNwReachServerAlive
starNwReachServerDead
starStorageServerUnackedGedrVolPurge
starStorageServerUnackedGedrFileGen
starNTPPeerReachable
starNTPSyncEstablished
starContFiltDBError
starContFiltDBErrorClear
starPDIFSServiceStart
starBLDBError
starBLDBErrorClear
starContFiltDBUpgradeError
starContFiltDBUpgradeErrorClear
starBLDBUpgradeError
starBLDBUpgradeErrorClear
starDynPkgLoadError
starDynPkgLoadErrorClear
starDynPkgUpgradeError
starDynPkgUpgradeErrorClear
starPDIFSServiceStart
starPDIFSServiceStop
starSessMgrRecoveryComplete
starSessMgrFlowCount
starSessMgrFlowCountClear
starDiameterPeerDown
starDiameterPeerUp
starDiameterServerUnreachable
starDiameterServerReachable
starDiameterCapabilitiesExchangeSuccess
starDiameterCapabilitiesExchangeFailure
starCDRFileRemoved
starCSCFPeerServerReachable
starCSCFPeerServerUnreachable
starCSCFPeerServerUnavailable
starCSCFPeerServerOutOfService
starCSCFPeerServerInService
starCLIConfigMode
starSGSNServiceStart
starSGSNServiceStop
starM3UAPCUnavailable
starM3UAPAvaliable
starECSTotalDNSLearntIPv4Threshold
starECSTotalDNSLearntIPv4ThresholdClear
starECSTotalDNSLearntIPv6Threshold,
starECSTotalDNSLearntIPv6ThresholdClear,
starM3UAPSDown,
starM3UAPSActive
starM3UAPSPDown
starM3UAPSPUp
starSCCPspRcvd
starSCPSspClear
starSGSNRNCReset
starSGSNHLRReset
starSGSNGtpcPathFailure
starSGSNGtpcPathFailureClear
starSGSNGtpuPathFailure
starSGSNGtpuPathFailureClear
starMTP3LinkOutOfService
starMTP3LinkInService
starMTP3LinkSetUnAvailable
starMTP3LinkSetAvailable
starSCTPAssociationFail
starSCTPAssociationEstablished
starSCTPPathDown
starSCTPPathUp,
starMTP3PConAvailable
starSS7PConAvailable
starSS7PCCongested
starSS7PCCongestionCleared
starM3UAPSPCongested
starM3UAPSPCongestionCleared
starStorageFailed
starRaidFailed
starRaidStarted
starRaidDegraded
starRaidRecovered
starHENBGWMMESCTPAssocDown
starHENBGWMMESCTPAssocUp
starHENBGWMMESCTPAllAssocDown
starHENBGWMMESCTPAllAssocDownClear
star'ECSreaddressServerDown
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
starEPDGIUserServiceStart
starEPDGIUserServiceStop
starApsCommandSuccess
starApsCommandFailure
starApsSwitchSuccess
starApsSwitchFailure
starApsModeMismatch
starApsChannelMismatch
starApsByteMismatch
starApsFeProtLineFailure
starApsLossOfRedundancy
starApsLossOfRedundancyClear
starSGSServiceStart
starSGSServiceStop
starSgsnGnMsgDelay
starSgsnGnMsgDelayClear
starBNGUserServiceStart
starBNGUserServiceStop
starHenbgwAccessServiceStart
starHenbgwAccessServiceStop
starHenbgwNetworkServiceStart
starHenbgwNetworkServiceStop
starThreshDnsLookupFailure
starThreshClearDnsLookupFailure
starThreshDiameterRetryRate
starThreshClearDiameterRetryRate
starMMES1AssocFail
starMMES1AssocSetup
starMMES1PathFail
starMMES1PathSetup
starHNBGWGSNSNRunapReset
starHNBGWMSCRanapReset
starALCAPNodeReset
starALCAPPathReset
starALCAPPathBlock
starALCAPPathUnBlock
starThreshHNBGWHnbSess
starThreshClearHNBGWHnbSess
starThreshHNBGWUeSess
starThreshClearHNBGWUeSess
starThreshHNBGWluSess
starThreshClearHNBGWluSess
starMVGPeerDown
starMVGPeerUp
starThreshSystemCapacity
starThreshClearSystemCapacity
starThreshClearHNBGWluSess
starSGSNRRNCCNoResetAck
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
starBFD_sessUp
starBFD_seshDown
starThreshFabricEGQDiscards
starThreshNATPktDrop
starThreshClearNATPktDrop
starThreshClearFabricEGQDiscards
starHENBGWMMEOverloadStart
starHENBGWMMEOverloadStop
starBGPPeerSessionIPv6Up
starBGPPeerSessionIPv6Down
starMMEEMBMSServiceStart
starMMEEMBMSServiceStop
starMCEAssocDown
starMCEAssocUp
starIuBcTcpConnDown
starIuBcTcpConnUp
starGILANServiceStart
starGILANServiceStop
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
starThresholdPPoolFree
starThreshClearIPPoolFree
starThreshAAAAAcctArchive
starThreshClearAAAAAcctArchive
starThreshPortSpecRxUtil
starThreshClearPortSpecRxUtil
starThreshPortSpecTxUtil
starThreshClearPortSpecTxUtil
starThreshHACallSetupRate
starThreshClearHACallSetupRate
starThreshHASvcCallSetupRate
starThreshClearHASvcCallSetupRate
starThreshHASvcRegReplyError
starThreshClearHASvcRegReplyError
starThreshHASvcReregReplyError
starThreshClearHASvcReregReplyError
starThreshHASvcDeregReplyError
starThreshClearHASvcDeregReplyError
starThreshFASvcRegReplyError
starThreshClearFASvcRegReplyError
starThreshPDSNCallSetupRate
starThreshClearPDSNCallSetupRate
starThreshPDSNSvcCallSetupRate
starThreshClearPDSNSvcCallSetupRate
starThreshPDSNSvcA11RRPFailure
starThreshClearPDSNSvcA11RRPFailure
starThreshPDSNSvcA11RRQMsgDiscard
starThreshClearPDSNSvcA11RRQMsgDiscard
starThreshPDSNSvcA11RACMsgDiscard
starThreshClearPDSNSvcA11RACMsgDiscard
starThreshPDSNSvcA11PPPSendDiscard
starThreshClearPDSNSvcA11PPPSendDiscard
starThreshAAAMgrQueue
starThreshClearAAAMgrQueue
starThreshAAAAAcctArchiveQueue1
starThreshClearAAAAAcctArchiveQueue1
starThreshAAAAAcctArchiveQueue2
starThreshClearAAAAAcctArchiveQueue2
starThreshAAAAAcctArchiveQueue3
starThreshClearAAAAAcctArchiveQueue3
starThreshDnsLookupSrvFailure
starThreshClearDnsLookupSrvFailure
starThreshCPUOrbsWarn
starThreshClearCPUOrbsWarn
starThreshCPUOrbsCritical
starThreshClearCPUOrbsCritical
starThreshRPSetupFailRate
starThreshClearRPSetupFailRate
starThreshPPPSetupFailRate
starThreshClearPPPSetupFailRate
starThreshStorageUtilization
starThreshClearStorageUtilization
starThreshStorageUtilization
starThreshDCCAProtocolErrors
starThreshClearDCCAProtocolErrors
starThreshDCCABadAnswers
starThreshClearDCCABadAnswers
starThreshDCCAUnknownRatingGroup
starThreshClearDCCAUnknownRatingGroup
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      |
| starThreshClearCDRFlowControl                |
| starThreshASNGWSessTimeout                   |
| starThreshClearASNGWSessTimeout              |
| starThreshASNGWSessSetupTimeout              |
| starThreshClearASNGWSessSetupTimeout         |
| starThreshASNGWAuthFail                      |
| starThreshClearASNGWAuthFail                 |
| starThreshASNGWMaxEAPRetry                   |
| starThreshClearASNGWMaxEAPRetry              |
| starThreshASNGWEntryDenial                  |
| starThreshClearASNGWEntryDenial             |
| starThreshASNGWHandoffDenial                |
| starThreshClearASNGWHandoffDenial           |
| starThreshPHSGWSessTimeout                   |
| starThreshClearPHSGWSessTimeout              |
| starThreshPHSGWSessSetupTimeout             |
| starThreshClearPHSGWSessSetupTimeout        |
| starThreshPHSGWAuthFail                      |
| starThreshClearPHSGWAuthFail                 |
| starThreshPHSGWMaxEAPRetry                   |
| starThreshClearPHSGWMaxEAPRetry              |
| starThreshPHSGWNWEntryDenial                |
| starThreshClearPHSGWNWEntryDenial           |
| starThreshPHSGWHandoffDenial                |
| starThreshClearPHSGWHandoffDenial           |
| starThreshMeasuredInt                        |
| starThreshASNGWSessions                      |
| starThreshClearASNGWSessions                 |
| starThreshPerServiceASNGWSessions            |
| starThreshClearPerServiceASNGWSessions       |
| starThreshPHSPCSSessSetupTimeout            |
| starThreshClearPHSPCSSessSetupTimeout        |
| starThreshPHSPCSleepModeTimeout              |
starThreshClearPHSPCSleepModeTimeout
starThreshPHSPCSmEntryDenial
starThreshClearPHSPCSmEntryDenial
starThreshSGWSessions
starThreshClearSGWSessions
starThreshPGWSessions
starThreshClearPGWSessions
starThreshLMASessions
starThreshClearLMASessions
starThreshMAGSessions
starThreshClearMAGSessions
starThreshHSGWSessions
starThreshClearHSGWSessions
starThreshHENBGWHenbSessions
starThreshClearHENBGWHenbSessions
starThreshHENBGWUeSessions
starThreshClearHENBGWUeSessions
starThreshHENBGWPagingMessages
starThreshClearHENBGWPagingMessages
starThreshPHSGWEAPOLAuthFailure
starThreshClearPHSGWEAPOLAuthFailure
starThreshPHSGWMAXEAPOLRetry
starThreshClearPHSGWMAXEAPOLRetry
starThreshFWDosAttack
starThreshClearFWDosAttack
starThreshFWDropPacket
starThreshClearFWDropPacket
starThreshFWDenyRule
starThreshClearFWDenyRule
starThreshFWNoRule
starThreshClearFWNoRule
starSRPConnDown
starSRPConnUp
starThreshNATPortChunks
starThreshClearNATPortChunks
starThreshClearFWDosAttack
starThreshFWDropPacket
starThreshClearFWDropPacket
starThreshGPRSSessions
starThreshClearGPRSSessions
starThreshPerServiceGPRSSessions
starThreshClearPerServiceGPRSSessions
starThreshGPRSPdpSessions
starThreshClearGPRSPdpSessions
starThreshPerServiceGPRSPdpSessions
starThreshClearPerServiceGPRSPdpSessions
starThreshFWDenyRule
starThreshClearFWDenyRule
starThreshFWNoRule
starThreshClearFWNoRule
starThreshBGPRoutes
starThreshClearBGPRoutes
starThreshNPUUtilization
starThreshClearNPUUtilization
starThreshEPDGCurrSess
starThreshClearEPDGCurrSess
starSRPConnDown
starSRPConnUp
starPortDown
starPortUp
starOSPFNeighborDown
starOSPFNeighborFull
starBSReachable
starBSUnreachable
starSystemStartup
starASNPCServiceStart
starASNPCServiceStop
starDiameterIPv6PeerDown
starDiameterIPv6PeerUp
starIPMSServerUnreachable
starIPMSServerReachable
starCertShortLifetime
starCertExpired
starCertValid
starFTPPushFail
starFTPServSwitch
starSDHSectionDown
starSDHSectionUp
starSDHPathHopDown
starSDHPathHopUp
starSDHLopDown
starSDHLopUp
starSDHE1TribUp
starSDHE1TribDown
starSDHFractE1LMIDown
starSDHFractE1LMIUp
starGPRSServiceStart
starGPRSServiceStop
starGPRSNetDown
starGPRSNetUp
starGPRSNetSvcDown
starGPRSNetSvcUp
starGPRSNetSvcDown
starGPRSNetSvcUp
starGPRSNetSvcDown
starGPRSNetSvcUp
starPDGServiceStart,
starPDGServiceStop
starThreshPDGCurrSess
starThreshClearPDGCurrSess,
starThreshPDGCurrActSess,
starThreshClearPDGCurrActSess
starPGWServiceStart
starPGWServiceStop
starSGWServiceStart
starSGWServiceStop
starEGTPServiceStart
starEGTPServiceStop
starLMAServiceStart
starLMAServiceStop
starMAGServiceStart
starMAGServiceStop
starMMEServiceStart
starMMEServiceStop
starHSGWSERVICEStart
starCPUBusyClear
starCPUMemoryLowClear
starManagerRestart
starConfigurationUpdate
starFNGServiceStart
starFNGServiceStop
starThreshFNGCurrSess
starThreshClearFNGCurrSess
starThreshFNGCurrActSess
starThreshClearFNGCurrActSess
starEgtpcPathFailure
starEgtpcPathFailureClear
starEgtpuPathFailure
starEgtpuPathFailureClear
starServiceLossSPIOClear
starHNBGWServiceStart
starHNBGWServiceStop
starSystemReboot
starHSGWSERVICEStop
starGPRSServiceStart
starGPRSServiceStop
starGPRSNSeDown
starGPRSNSeUp
starGPRSNsvcDown
starGPRSNsvcUp
starGPRSsvcDown
starGPRSsvcUp

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
enterprise.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)
starentMIBCompliances

Object ID
enterprise.8164.3.2.1

Description
The statement listing compliant mandatory groups.

Required Groups
starChassisGroup
starAlertGroup
starAlertTrapGroup
starTrapGroup

Optional Groups
starTrapObsoleteGroup
starChassisObsoleteGroup
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
    (3164)

  starIPMSMIB
    (102)

    starIPMSMIBObjects
      (1)

    starIPMSMIBTraps
      (2)

    starIPMSMIBConformances
      (3)

    starIPMSCompliance
      (1)

    starIPMSGroups
      (2)
```
MIB Textual Conventions

This section defines the objects, traps and conformance for the IPMS MIB.

enterprise.8164.102.starIPSMIBObjects(1)

Object
starIPMSTimeTicks

Object ID
enterprise.8164.102.1.1

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

Syntax
TimeStamp

Access
Read-Only

Object
starIPMSCOMPONENTNAME

Object ID
enterprise.8164.102.1.2

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

Syntax
DisplayString

Access
Read-Only

Object
starIPMSTaskInfo

Object ID
enterprise.8164.102.1.3

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

Syntax
DisplayString
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
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
enterprise.8164.102.1.14

Description
This object indicates the current value/status of IPMS process resources like CPU, memory, disk space etc.

Syntax
DisplayString

Access
Read-only

Object
starIPMSResourceConfThreshold

Object ID
enterprise.8164.102.1.15

Description
This object indicates the configured threshold values of IPMS process resources like CPU, memory, disk space etc. The value is in Float so mapped to string.

Syntax
DisplayString

Access
Read-only

Object
starIPMSPeerName

Object ID
enterprise.8164.102.1.16

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

Syntax
DisplayString

Access
Read-only

Object
starIPMSPeerIP

Object ID
enterprise.8164.102.1.17
Description
This object indicates the IP address of the IPMS peer server.

Syntax
DisplayString

Access
Read-only

Object
starIPMSPeerPort

Object ID
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
icmpstateup(1)
icmpstatedown(2)

Object
starIPMSCORBASState

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
enterprise.8164.102.2.1

Description
This notification generated when an IPMS component started successfully.

Objects
starIPMSComponentName

Object
starIPMSComponentStop

Object ID
enterprise.8164.102.2.2

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

Objects
starIPMSComponentName

Object
starIPMSProcessStart

Object ID
enterprise.8164.102.2.3

Description
This notification generated when an IPMS process started/restarted successfully.
Objects
starIPMSTaskInfo

Object
starIPMSProcessStartFail

Object ID
enterprise.8164.102.2.4

Description
This notification generated when an IPMS process failed to start/restart.

Objects
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

---

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

---

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>
</tr>
</thead>
<tbody>
<tr>
<td>starIPMSMIBCompliance</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Objects</th>
</tr>
</thead>
<tbody>
<tr>
<td>starIPMOSObjectGroup</td>
</tr>
<tr>
<td>starIPMSNotifGroup</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>This group is a collection of objects related with notification management on IPMS.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Objects</th>
</tr>
</thead>
<tbody>
<tr>
<td>starIPMSTimeTicks</td>
</tr>
<tr>
<td>starIPMSComponentName</td>
</tr>
<tr>
<td>starIPMSTaskInfo</td>
</tr>
<tr>
<td>starIPMSProcessMaxRestartCnt</td>
</tr>
<tr>
<td>starIPMSProcessRestartWaitTime</td>
</tr>
<tr>
<td>starIPMSPacketLossCnt</td>
</tr>
<tr>
<td>starIPMSTotalPacketLossCnt</td>
</tr>
<tr>
<td>starIPMSDPIFailureReason</td>
</tr>
</tbody>
</table>
starIPMSDPIDetails
starIPMSEventSource
starIPMSAttribute
starIPMSResourceType
starIPMSResourceInfoState
starIPMSResourceCurrentValue
starIPMSResourceConfThreshold
starIPMSPeerName
starIPMSPeerIP
starIPMSPeerPort
starIPMSICMPState
starIPMSCORBAState

Object
  starIPMSNotifGroup

Object ID
  enterprise.8164.102.3.2.2

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

Objects
  starIPMSCComponentStart
  starIPMSCComponentStop
  starIPMSProcessStart
  starIPMSProcessStartFail
  starIPMSPacketLossThreshold
  starIPMSDPIDFail
  starIPMSThresholdExceed
  starIPMSThresholdClear
  starIPMSPeerStateChange
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 conformsances for the Local External Storage Server MIB.

## enterprise.8164.101.starLESSMIBObjects(1)

<table>
<thead>
<tr>
<th>Object</th>
<th>starLESSNotifRaisedTime</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.101.1.1</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>This object indicates the time when this notification was generated. This will be current system time in seconds.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>Integer32</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>Accessible-for-notify</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starLESSNotifInfo</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.101.1.2</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
<td>DisplayString (SIZE (1..64))</td>
</tr>
<tr>
<td><strong>Access</strong></td>
<td>Accessible-for-notify</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starLESSInstance</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object ID</strong></td>
<td>enterprise.8164.101.1.3</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>This object indicates the L-ESS Application Instance number.</td>
</tr>
</tbody>
</table>
Object

starLESSNodeName

Object ID

enterprise.8164.101.1.4

Description

This object indicates the L-ESS Application node name.

Syntax

DisplayString (SIZE (1..64))

Access

Accessible-for-notify

Object

starLESSApplicationType

Object ID

enterprise.8164.101.1.5

Description

This object indicates the L-ESS Application Type (pull/push/transfer). Pull (1) is L-ESS Pull application Push (2) is L-ESS Push application Transfer (3) is L-ESS Transfer application

Syntax

INTEGER {

   unknown(0),
   pull(1),
   push(2),
   transfer(3)

}

Access

Accessible-for-notify

Object

starLESSThreshInt

Object ID

enterprise.8164.101.1.6
Description
This object indicates the configured value of a thresholded parameter.

Syntax
Integer32

Access
Accessible-for-notify

Object
starLESSThreshMeasuredInt

Object ID
enterprise.8164.101.1.7

Description
This object indicates the measured value of a thresholded parameter.

Syntax
Integer32

Access
Accessible-for-notify

Object
starLESSRuleBaseName

Object ID
enterprise.8164.101.1.8

Description
This object indicates the name of the rulebase present in filename.

Syntax
DisplayString (SIZE (1..64))

Access
Accessible-for-notify

Object
starLESSSTXName

Object ID
enterprise.8164.101.1.9

Description
This object indicates the name of the STX.

Syntax
DisplayString (SIZE (1..64))
Access
  Accessible-for-notify

Object
  starLESSStartofMissedRange

Object ID
  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
  starLESSEndofMissedRange

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
  starLESSFileType

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
  starLESSRemoteHostName
Object ID
enterprise.8164.101.1.13

Description
This object indicates the name of the STX.

Syntax
DisplayString (SIZE (1..64))

Access
Accessible-for-notify

Object
starLessMountPoint

Object ID
enterprise.8164.101.1.14

Description
Mount point where disk is mounted

Syntax
DisplayString(SIZE(1..64))

Access
Accessible for Notify.

Object
starLESSHostName

Object ID
enterprise.8164.101.1.15

Description
L-ESS Application source/destination name.

Syntax
DisplayString(SIZE(1..64))

Access
Accessible for 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 Notifye

Object
starLESTerminationTime

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.
### LESS Application MIB

<table>
<thead>
<tr>
<th>Objects</th>
<th>starLESSNotifRaisedTime</th>
<th>starLESSNodeName</th>
<th>starLESSInstance</th>
<th>starLESSApplicationType</th>
</tr>
</thead>
</table>

**Object**

starLESSApplicationReStart

**Object ID**

enterprise.8164.101.2.2

**Description**

This notification is generated when L-ESS application has restarted.

<table>
<thead>
<tr>
<th>Objects</th>
<th>starLESSNotifRaisedTime</th>
<th>starLESSNodeName</th>
<th>starLESSInstance</th>
<th>starLESSApplicationType</th>
</tr>
</thead>
</table>

**Object**

starLESSApplicationStop

**Object ID**

enterprise.8164.101.2.3

**Description**

This notification is generated when L-ESS application has stopped.

<table>
<thead>
<tr>
<th>Objects</th>
<th>starLESSNotifRaisedTime</th>
<th>starLESSNodeName</th>
<th>starLESSInstance</th>
<th>starLESSApplicationType</th>
<th>starLESSNotifInfo</th>
</tr>
</thead>
</table>

**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
tele.8164.101.2.5

Description
This notification is generated when L-LESS application has missed the pull interval.

Objects
starLESSNotifRaisedTime
starLESSNodeName
starLESSInstance

Object
starLESSThreshDiskUsage

Object ID
tele.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
tele.8164.101.2.7

Description
This notification is generated when total disk used is below configured threshold. Threshold condition is now clear.
Objects
starLESSNotifRaisedTime
starLESSNodeName
starLESSThreshMeasuredInt
starLESSThreshInt

Object
starLESSFileMissed

Object ID
enterprise.8164.101.2.8

Description
This notification is generated when L-ESS application has missed pulling files from STX. **Probable Cause:** File at STX side has been deleted before L-ESS fetching it.

**Clear Condition:** There is no clear condition for this notification.

**Condition Clear Alarm:** There is no clear alarm for this notification.

Objects
starLESSNotifRaisedTime
starLESSNodeName
starLESSInstance
starLESSRuleBaseName
starLESSFileType
starLESSSTXName
starLESSTartofMissedRange
starLESEEndofMissedRange
starLESSNotifInfo

Object
starLESSRemoteConnectionFail

Object ID
enterprise.8164.101.2.9

Description
This notification is generated when L-ESS application is unable to set up the connection with remote host.

**Probable Cause:** No route to host, Authentication failure, Host Unreachable, etc.

**Clear Condition:** This condition is cleared when L-ESS is able to setup the connection with remote host.

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

Objects
starLESSNotifRaisedTime
starLESSNodeName
starLESSInstance
starLESSApplicationType
starLESSRemoteHostName
starLESSNotifInfo

Object

starLESSRemoteConnectionEstablished

Object ID

enterprise.8164.101.2.10

Description

This notification is generated when L-ESS application is able to set up the connection with remote host.

Probable Cause: Connection established with remote host.

Objects

starLESSNotifRaisedTime
starLESSNodeName
starLESSInstance
starLESSApplicationType
starLESSRemoteHostName

Object

starLESSFileTransferFail

Object ID

enterprise.8164.101.2.11

Description

This notification is generated when L-ESS application fails to transfer a file.

Probable Cause: This trap could be raised when pull or push process fails to transfer files continuously. Reasons for this failure could be network errors, disk space unavailable at destination, destination directory unavailable, etc.

Clear Condition: This condition is cleared when successful file transfer begins.

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

Objects

starLESSNotifRaisedTime
starLESSNodeName
starLESSInstance
starLESSApplicationType
starLESSRemoteHostName
starLESSFileType
starLESSNotifInfo

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

starLESSThreshPendingFiles

**Object ID**
enterprise.8164.101.2.13

**Description**
This notification is generated when total pending files for this host are beyond the configured threshold.

**Probable Cause**: This is a user configurable threshold. The starLESSThreshPendingFiles notification will be generated by pull or push process when the total number of files pending for transfer in source directory are beyond configured threshold.

**Clear Condition**: This condition is cleared when number of pending files at source directory falls below configured threshold.

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

**Objects**
- starLESSNotifRaisedTime
- starLESSNodeName
- starLESSInstance
- starLESSApplicationType
- starLESSSTXName
- starLESSFileType
- starLESSThreshMeasuredInt
- starLESSThreshInt

starLESSThreshClearPendingFiles
Object ID

enterprise.8164.101.2.14

Description

This notification is generated when total pending files for this host are below configured threshold.

Probable Cause: This is a user configurable threshold. The 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
terprise.8164.101.2.20

Description
L-ESS application has been terminated.

Objects
starLESSNotifRaisedTime
starLESSNodeName
starLESSTerminationTime

Object
starGenericLESSPullIntervalMissed

Object ID
terprise.8164.101.2.21

Description
L-ESS application has missed a pull interval.

Objects
starLESSNotifRaisedTime
starLESSNodeName
starLESSHostName
starLESSPath

Object
starGenericLESSThreshDiskUsagene

Object ID
terprise.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
LESS 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
starLESSERTRuleBaseName
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, HostUnreachable etc.
Clear Condition: When LESS is able to setup the connection with remote host.
Condition Clear Alarm: Clear alarm for this notification is starRemoteConnectionEstablished.

Objects
starLESSNotifRaisedTime
starLESSNodeName
starLESSHostName
starLESSRemoteHostName
starLESSNotifInfo

Object
starGenericLESSRemoteConnectionEstablished

Object ID
enterprise.8164.101.2.26

Description
LESS application is now able to set up the connection with remote host.

Probable Cause: Connection established with remote host.

Objects
starLESSNotifRaisedTime
starLESSNodeName
starLESSHostName
starLESSRemoteHostName

Object
starGenericLESSFileTransferFail

Object ID
enterprise.8164.101.2.27

Description
LESS application is failing to transfer a file.

Probable Cause: This trap could be raised if pull or push process fails to transfer files continuously. Reasons of this failure could be network errors, disk space unavailable at destination, destination directory unavailable etc.
Clear Condition: When succesful file transfer begins.
**Condition Clear Alarm:** Clear alarm for this notification is `starLESSGenericFileTransferComplete`.

**Objects**
- `starLESSNotifRaisedTime`
- `starLESSNodeName`
- `starLESSHostName`
- `starLESSPath`
- `starLESSNotifInfo`

**Object**
- `starGenericLESSFileTransferComplete`

**Object ID**
- `enterprise.8164.101.2.28`

**Description**
LESS application is now able to transfer file.

**Probable Cause:** The problems making LESS unable to transfer a file have resolved and pull or push process has now restarted file transfer.

**Objects**
- `starLESSNotifRaisedTime`
- `starLESSNodeName`
- `starLESSHostName`
- `starLESSPath`

**Object**
- `starGenericLESSThreshPendingFiles`

**Object ID**
- `enterprise.8164.101.2.29`

**Description**
Total pending files for this host are beyond configured threshold.

**Probable Cause:** This is a user configurable threshold. The `starLESSGenericThreshPendingFiles` notification will be generated by pull or push process when the total number of files pending for transfer in source directory are beyond configured threshold.

**Objects**
- `starLESSNotifRaisedTime`
- `starLESSNodeName`
- `starLESSSTXName`
- `starLESSPath`
- `starLESSThreshMeasuredInt`
- `starLESSThreshInt`
Object

starGenericLESSThreshClearPendingFiles

Object ID
teleport.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
teleport.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
teleport.8164.101.2.32

Description
LESS has detected removal of existing host.
**Probable Cause:** Operator has removed existing host in L-ESS from which LESS was already pulling files. Or the operator removed the destination to which LESS was transferring files

**Objects**
- starLESSNotifRaisedTime
- starLESSNodeName
- starLESSHostName
- starLESSPath

**Object**
- starGenericLESSHostEnabled

**Object ID**
enterprise.8164.101.2.33

**Description**
L-ESS has detected that host is enabled.

**Probable Cause:** Operator has enabled a host in L-ESS from which files should be pulled. Or enabled the destination to which files should be transferred

**Objects**
- starLESSNotifRaisedTime
- starLESSNodeName
- starLESSHostName
- starLESSPath

**Object**
- starGenericLESSHostDisabled

**Object ID**
enterprise.8164.101.2.34

**Description**
L-ESS has disabled existing host.

**Probable Cause:** Operator has enabled the existing host in L-ESS from which files should be pulled. Or disabled the destination to which files were being transferred

**Objects**
- starLESSNotifRaisedTime
- starLESSNodeName
- starLESSHostName
- starLESSPath

**Object**
- starGenericLESSProcessFailure
### Object ID
enterprise.8164.101.2.35

### Description
L-ESS has detected process failure.

### Objects
- starLESSNotifRaisedTime
- starLESSNodeName
- starLESSHostName
- starLESSPath
- starLESSNotifInfo

### Object
starGenericLESSProcessStarted

### Object ID
enterprise.8164.101.2.36

### Description
L-ESS has detected that the process has started.

### Objects
- starLESSNotifRaisedTime
- starLESSNodeName
- starLESSHostName
- starLESSPath
- starLESSNotifInfo

### enterprise.8164.101.starLESSConformances(3)

### enterprise.8164.101.3.starLESSMIBGroups(1)

#### Object
starLESSNotifMgmtGroup

#### Object ID
enterprise.8164.101.3.1.1

#### Description
This group is a collection of objects related with notification management on LESS.

#### Objects
- starLESSNotifRaisedTime
- starLESSNotifInfo
starLESSInstance
starLESSNodeName
starLESSApplicationType
starLESSThreshMeasuredInt
starLESSThreshInt
starLESSRuleBaseName
starLESSSTXName
starLESSStartofMissedRange
starLESSEndofMissedRange
starLESSFileType
starLESSRemoteHostName
starLESSMountPoint
starLESSHostName
starLESSPath
starLESSTerminationTime

Object
starLESSNotifGroup

Object ID
enterprise.8164.101.3.1.2

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

Objects
starLESSApplicationStart
starLESSApplicationReStart
starLESSApplicationStop
starLESSApplicationTerminated
starLESSPullIntervalMissed
starLESSThreshDiskUsage
starLESSThreshClearDiskUsage
starLESSFileMissed
starLESSRemoteConnectionFail
starLESSRemoteConnectionEstablished
starLESSFileTransferFail
starLESSFileTransferComplete
starLESSThreshPendingFiles
starLESSThreshClearPendingFiles
starLESSNewHostFound
starLESSHostRemoved
starGenericLESSApplicationStart
starGenericLESSApplicationReStart
starGenericLESSApplicationStop
starGenericLESSApplicationTerminated
starGenericLESSPullIntervalMissed
starGenericLESSThreshDiskUsage
starGenericLESSThreshClearDiskUsage
starGenericLESSFileMissed
starGenericLESSRemoteConnectionFail
starGenericLESSRemoteConnectionEstablished
starGenericLESSFileTransferFail
starGenericLESSFileTransferComplete
starGenericLESSThreshPendingFiles
starGenericLESSThreshClearPendingFiles
starGenericLESSNewHostFound
starGenericLESSHostRemoved

enterprise.8164.101.3.starLESSMIBCompliances(2)

Object

starLESSMIBCompliances

Object ID
enterprise.8164.101.3.2.1

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

Mandatory Groups
starLESSNotifMgmtGroup
starLESSNotifGroup
Chapter 6
MUR Application MIB

The following figure illustrates the hierarchical structure of the management information base (MIB) for the Mobile Unified Reporting (MUR) application.

Figure 4. MUR Application MIB Tree
MIB Textual Conventions

This section defines the objects, traps and conformances for the MUR MIB.

enterprise.8164.103.starMURMIBObjects(1)

<table>
<thead>
<tr>
<th>Object</th>
<th>starMURThreshConfigured</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.103.1.1</td>
</tr>
<tr>
<td>Description</td>
<td>This object indicates configured value of a thresholded parameter.</td>
</tr>
<tr>
<td>Syntax</td>
<td>StarMURFloatValue</td>
</tr>
<tr>
<td>Access</td>
<td>read-only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starMURThreshMeasured</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.103.1.2</td>
</tr>
<tr>
<td>Description</td>
<td>This object indicates measured value of a thresholded parameter.</td>
</tr>
<tr>
<td>Syntax</td>
<td>StarMURFloatValue</td>
</tr>
<tr>
<td>Access</td>
<td>read-only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object</th>
<th>starMURDiskPath</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ID</td>
<td>enterprise.8164.103.1.3</td>
</tr>
<tr>
<td>Description</td>
<td>Disk path to be monitored.</td>
</tr>
<tr>
<td>Syntax</td>
<td>DisplayString (SIZE (1..255))</td>
</tr>
</tbody>
</table>
Access
accessible-for-notify

Object
starMURAppIdentifier

Object ID
enterprise.8164.103.1.4

Description
Identifier of the MUR application to be monitored.

Syntax
INTEGER {
  schedulingserver(1)
  postgresserver(2)
  apacheserver(3) }

Access
accessible-for-notify

Object
starMURDataIdentifier

Object ID
enterprise.8164.103.1.5

Description
Identifier of the MUR data to be monitored.

Syntax
INTEGER {
  edr(1)
  cfedr(2)
  bulkstats(3)
  httpeddr(4)
  rdp(5) }

Access
accessible-for-notify

Object
starMURTskIdentifier

Object ID
enterprise.8164.103.1.6
Description
Name of the task to be monitored.

Syntax
INTEGER {
edrnormalization(1)
httpedrnormalization(2)
cfedrnormalization(3)
portaggregation(4)
protocolsummary(5)
subscriberaggregationminutely(6)
subscriberaggregationhourly(7)
flowcount(8)
httphostaggregationminutely(9)
httphostaggregationhourly(10)
httpcontentsummary(11) }

Access
accessible-for-notify

Object
starMURGatewayIdentifier

Object ID
enterprise.8164.103.1.7

Description
Identifier of the MUR Gateway to be monitored.

Syntax
Integer32

Access
accessible-for-notify

Object
starMURThreshComparator

Object ID
enterprise.8164.103.1.8

Description
Used as comparator for threshold.

Syntax
INTEGER {
greaterthanequal(1)
lesserthanequal(2) }

Access
accessible-for-notify

Object
starMURKPI

Object ID
enterprise.8164.103.1.9

Object starMURKPITable

Object ID
enterprise.8164.103.1.9.1

Description
A table containing information of KPI alarms.

Syntax
SEQUENCE OF StarMURKPIEntry

Access
not-accessible

Object
starMURKPIEntry

Object ID
enterprise.8164.103.1.9.1.1

Description
Information about a particular KPI.

Syntax
StarMURKPIEntry

Access
not-accessible

Object
starMURGatewayName

Object ID
enterprise.8164.103.1.9.1.1.1

Description
The object indicates the name of the Chassis.
MIB Textual Conventions

Syntax
DisplayString (SIZE (1..255))

Access
accessible-for-notify

Object
starMURKPIName

Object ID
enterprise.8164.103.1.9.1.1.2

Description
KPI to be monitored.

Syntax
DisplayString (SIZE (1..255))

Access
accessible-for-notify

Object
starMUREntityName

Object ID
enterprise.8164.103.1.9.1.1.3

Description
The object instance of the schema, i.e. CARD-0, CARD-1.

Syntax
DisplayString (SIZE (1..64))

Access
accessible-for-notify

Object
starMURThreshConfiguredString

Object ID
enterprise.8164.103.1.10

Description
This object indicates configured value of a thresholded parameter in string format.

Syntax
DisplayString (SIZE (1..32))

Access
accessible-for-notify
Object

starMURThreshMeasuredString

Object ID
enterprise.8164.103.1.11

Description
This object indicates measured value of a thresholded parameter in string format.

Syntax
DisplayString (SIZE (1..32))

Access
accessible-for-notify

Object

starMURSFTPMessage

Object ID
enterprise.8164.103.1.12

Description
Reason for failure for SFTP

Syntax
DisplayString (SIZE (1..255))

Access
accessible-for-notify

enterprise.8164.103.starMURMIBTraps(2)

Object

starMURCPUBusy

Object ID
enterprise.8164.103.2.1

Description
MUR application is experiencing high CPU usage. The usage has exceeded an operator-configure value.

Probable Cause: The amount of information being sent to the MUR application is approaching the MUR application's capacity the MUR application has other tasks running on it which are taking CPU time; a problem with the MUR application is causing the CPU to be abnormally busy.

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

Objects
starMURThreshConfigured
starMURThreshMeasured

Object
  starMURCPUNormal

Object ID
terprise.8164.103.2.2

Description
  MUR application's CPU usage has returned to a normal range.

Objects
  starMURThreshConfigured
  starMURThreshMeasured

Object
  starMURDiskSpaceLow

Object ID
terprise.8164.103.2.3

Description
  MUR application is experiencing low available disk space. The available disk space has gone below an operator-configured value.

Probable Cause: The amount of information being sent to the MUR application is approaching the MUR application's capacity; the MUR application has other information consuming disk space; a problem with the MUR application is causing less disk space to be available than normal.

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

Objects
  starMURThreshConfigured
  starMURThreshMeasured
  starMURDiskPath

Object
  starMURDiskSpaceNormal

Object ID
terprise.8164.103.2.4

Description
  MUR application's available disk space has returned to a normal range.

Objects
  starMURThreshConfigured
  starMURThreshMeasured
  starMURDiskPath
**Object**: starMURMemLow

**Object ID**: enterprise.8164.103.2.5

**Description**: MUR application is experiencing a low memory condition. The available amount of memory has gone below an operator-configure value.

**Probable Cause**: The MUR application has other tasks consuming memory space; a problem with the MUR application is causing less memory space to be available than normal.

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

**Object**: starMURMemNormal

**Object ID**: enterprise.8164.103.2.6

**Description**: MUR application's available memory space has returned to a normal range.

**Objects**: starMURThreshConfigured, starMURThreshMeasured

**Object**: starMURAppStart

**Object ID**: enterprise.8164.103.2.7

**Description**: One of the processes in MUR application has been started.

**Objects**: starMURAppIdentifier

**Object**: starMURAppStop

**Object ID**: enterprise.8164.103.2.8

**Description**: One of the processes in MUR application has been stopped.

**Objects**: starMURAppIdentifier
Object
starMURUnProcessedFiles

Object ID
enterprise.8164.103.2.9

Description
MUR application reports that there are too many unprocessed data files. Number of unprocessed data files are greater than an operator-configured value.

Probable Cause: No action has been taken long for the data files received by MUR application.

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

Object
starMURUnProcessedFilesNormal

Object ID
enterprise.8164.103.2.10

Description
MUR application reports that number of unprocessed data files are less than an operator-configured value.

Objects
starMURThreshConfigured
starMURThreshMeasured
starMURDataIdentifier
starMURGatewayIdentifier

Object
starMURErroneousFiles

Object ID
enterprise.8164.103.2.11

Description
MUR application reports that there are too many erroneous data files. Number of erroneous data files are greater than an operator-configured value.

Probable Cause: Corrupted files.

Objects
starMURThreshConfigured
starMURThreshMeasured
starMURDataIdentifier
starMURGatewayIdentifier

Object
starMURErroneousRecords
Object ID

enterprise.8164.103.2.12

Description

MUR application reports that there are too many erroneous records. Number of erroneous records are greater than an operator-configured value.

Probable Cause

Corrupted records or mismatch of records.

Objects

starMURThreshConfigured
starMURThreshMeasured
starMURDataIdentifier
starMURGatewayIdentifier

Object

starMURRecordProcessingTaskLag

Object ID

enterprise.8164.103.2.13

Description

MUR application reports that one of the data processing task stakes more than stipulated time for processing.

Probable Cause

The amount of information being sent to the MUR application is approaching the MUR application's capacity; the MUR application has other tasks running on it which are taking CPU time; a problem with the MUR application

Condition Clear Alarm

This condition is cleared by a starMURRecordProcessingTaskLagNormal notification.

Objects

starMURThreshConfigured
starMURThreshMeasured
starMURTaskIdentifier

Object

starMURRecordProcessingTaskLagNormal

Object ID

enterprise.8164.103.2.14

Description

MUR application's reports that processing time of one of the data processing tasks has returned to a normal range.

Objects

starMURThreshConfigured
starMURThreshMeasured
starMURTaskIdentifier
starMURKPIThreshCritical

Object ID
enterprise.8164.103.2.15

Description
PI threshold Critical alarm indicates for which gateway, KPI and entity the alarm is generated and also its configured and measured threshold value.

Objects
starMURKPIName
starMURThreshComparator
starMURThreshConfiguredString
starMURThreshMeasuredString
starMURGatewayName
starMUREntityName

Object
starMURKPIThreshCriticalClear

Object ID
enterprise.8164.103.2.16

Description
KPI threshold Critical Clear alarm indicates for which gateway, KPI and entity the alarm is generated and also its configured and measured threshold value.

Objects
starMURKPIName
starMURThreshComparator
starMURThreshConfiguredString
starMURThreshMeasuredString
starMURGatewayName
starMUREntityName

Object
starMURKPIThreshMajor

Object ID
enterprise.8164.103.2.17

Description
KPI threshold Major alarm indicates for which gateway, KPI and entity the alarm is generated and also its configured and measured threshold value.

Objects
starMURKPIName
starMURThreshComaparator
starMURThreshConfiguredString
starMURThreshMeasuredString
starMURGatewayName
starMUREntityName

Object
starMURKPIThreshMajorClear

Object ID
enterprise.8164.103.2.18

Description
KPI threshold Major clear alarm indicates for which gateway, KPI and entity the alarm is generated and also its configured and measured threshold value.

Objects
starMURKPIName
starMURThreshComaparator
starMURThreshConfiguredString
starMURThreshMeasuredString
starMURGatewayName
starMUREntityName

Object
starMURKPIThreshMinor

Object ID
enterprise.8164.103.2.19

Description
KPI threshold minor alarm indicates for which gateway, KPI and entity the alarm is generated and also its configured and measured threshold value.

Objects
starMURKPIName
starMURThreshComaparator
starMURThreshConfiguredString
starMURThreshMeasuredString
starMURGatewayName
starMUREntityName

Object
starMURKPIThreshMinorClear
MIB Application MIB

MIB Textual Conventions

Object ID
enterprise.8164.103.2.20

Description
KPI threshold minor clear alarm indicates for which gateway, KPI and entity the alarm is generated and also its configured and measured threshold value.

Objects
starMURKPIName
starMURThreshComparer
starMURThreshConfiguredString
starMURThreshMeasuredString
starMURGatewayName
starMUREntityName

Object
starMURKPIThreshWarning

Object ID
enterprise.8164.103.2.21

Description
KPI threshold warning alarm indicates for which gateway, KPI and entity the alarm is generated and also its configured and measured threshold value.

Objects
starMURKPIName
starMURThreshComparer
starMURThreshConfiguredString
starMURThreshMeasuredString
starMURGatewayName
starMUREntityName

Object
starMURKPIThreshWarningClear

Object ID
enterprise.8164.103.2.22

Description
KPI threshold warning clear alarm indicates for which gateway, KPI and entity the alarm is generated and also its configured and measured threshold value.

Objects
starMURKPIName
starMURThreshComparer
starMURThreshConfiguredString
starMURThreshMeasuredString
starMURGatewayName
starMUREntityName

Object

starMURSFTPFailure

Object ID
enterprise.8164.103.2.23

Description
MUR application reports that there is SFTP failure which may led to the backlog of files on RDP and affect the MUR functioning.

Probable Cause: SFTP is not working properly

Objects

starMURSFTPMessage

Object

starMURSFTPNormal

Object ID
enterprise.8164.103.2.24

Description
MUR application reports that SFTP functioning has resumed.

enterprise.8164.103.starMURMIBConformances(3)

enterprise.8164.103.3.starMURMIBGroups(1)

Object

starMURNotifMgmtGroup

Object ID
enterprise.8164.103.3.1.1

Description
A collection of objects related with notification management on MUR.

Objects

starMURThreshConfigured
starMURThreshMeasured
starMURDiskPath
starMURAppIdentifier
starMURDataIdentifier
starMURTskIdentifier
starMURGatewayIdentifier
starMURGatewayName
starMUREntityName
starMURKPIName
starMURThreshComaparator
starMURThreshConfiguredString
starMURThreshMeasuredString
starMURSFTPMessage

Object
starMURNotifGroup

Object ID
enterprise.8164.103.3.1.2

Description
A collection of notifications.

Objects
starMURCPUBusy
starMURCPUNormal
starMURDiskSpaceLow
starMURDiskSpaceNormal
starMURMemLow
starMURMemNormal
starMURAppStart
starMURAppStop
starMURUnProcessedFiles
starMURUnProcessedFilesNormal
starMURRErroneousFiles
starMURRErroneousRecords
starMURRecordProcessingTaskLag
starMURRecordProcessingTaskLagNormal
starMURKPIThreshCritical
starMURKPIThreshCriticalClear
starMURKPIThreshMajor
starMURKPIThreshMajorClear
starMURKPIThreshMinor
starMURKPIThreshMinorClear
starMURKPIThreshWarning
starMURKPIThreshWarningClear
starMURSFTPFailure
starMURSFTPNormal

enterprise.8164.103.3.starMURMIBCompliances(2)

Object
starMURMIBCompliances

Object ID
terprise.8164.103.3.2.1

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

Mandatory Groups
starMURNotifMgmtGroup
starMURNotifGroup
Appendix A
Default Trap Severities

The Web Element Manager application functions as an alarm server by default. Though severity levels are not part of the SNMP protocol for traps, the Web Element Manager application provides a mechanism for assigning severity levels to traps. The following severity levels can be assigned:

- Clear
- Informational
- Warning
- Minor
- Major
- Critical
- Indeterminate
- N/A - Not Applicable

This chapter lists the default severity levels assigned to all supported traps.

Important: The “Clear” severity for Web Element Manager traps is the same as the “Informational” severity in the core platform MIB.
The following table lists traps supported by the core platform and their corresponding default severity level as defined within the Web Element Manager application.

<table>
<thead>
<tr>
<th>Trap</th>
<th>Trap ID String</th>
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<th>Informational Trap ID String</th>
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### Core Platforms Chassis Default Trap Severities

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WEM Default Trap Severities

The following table lists traps supported by the Web Element Manager and their corresponding default severity level as defined within the WEM application.

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<tr>
<td>starEmsBulkStatParserProcDetectRestart</td>
<td>enterprise.8164.1.1000.2.66</td>
<td>Information</td>
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<tr>
<td>starEmsBulkStatParserProcCPUUsageOverLimit</td>
<td>enterprise.8164.1.1000.2.67</td>
<td>Major</td>
<td>enterprise.8164.1.1000.2.68</td>
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<td>starEmsBulkStatParserProcCPUUsageNormal</td>
<td>enterprise.8164.1.1000.2.68</td>
<td>Information</td>
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</tr>
<tr>
<td>starEmsIMGRateControlStart</td>
<td>enterprise.8164.1.1000.2.69</td>
<td>Critical</td>
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</tr>
<tr>
<td>starEmsIMGRateControlStop</td>
<td>enterprise.8164.1.1000.2.70</td>
<td>Information</td>
<td>enterprise.8164.1.1000.2.69</td>
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<tr>
<td>starEmsMonitorQueueFull</td>
<td>enterprise.8164.1.1000.2.71</td>
<td>Information</td>
<td>N/A</td>
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<tr>
<td>starEmsMonitorQueueInLimit</td>
<td>enterprise.8164.1.1000.2.72</td>
<td>Information</td>
<td>N/A</td>
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<tr>
<td>starClusterFailoverHappened</td>
<td>enterprise.8164.1.1000.2.73</td>
<td>Information</td>
<td>N/A</td>
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<tr>
<td>starEmsDBBackupNoDiscSpace</td>
<td>enterprise.8164.1.1000.2.74</td>
<td>Warning</td>
<td>N/A</td>
</tr>
<tr>
<td>starEMSP2PProtocolUsageHigh</td>
<td>enterprise.8164.1.1000.2.75</td>
<td>Warning</td>
<td>N/A</td>
</tr>
<tr>
<td>starEMSP2PProtocolUsageLimit</td>
<td>enterprise.8164.1.1000.2.76</td>
<td>Information</td>
<td>N/A</td>
</tr>
<tr>
<td>starEmsKeywordDetectedInSyslog</td>
<td>enterprise.8164.1.1000.2.77</td>
<td>Information</td>
<td>N/A</td>
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<td>starEmsDBMigration</td>
<td>enterprise.8164.1.1000.2.78</td>
<td>Warning</td>
<td>N/A</td>
</tr>
<tr>
<td>starEmsNBServerProcStart</td>
<td>enterprise.8164.1.1000.2.79</td>
<td>Information</td>
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</tr>
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<td>starEmsNBServerProcStop</td>
<td>enterprise.8164.1.1000.2.80</td>
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<td>starEmsNBServerProcDetectRestart</td>
<td>enterprise.8164.1.1000.2.81</td>
<td>Information</td>
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<tr>
<td>starEmsNBServerProcCPUUsageOverLimit</td>
<td>enterprise.8164.1.1000.2.82</td>
<td>Major</td>
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</tr>
<tr>
<td>starEmsNBServerProcCPUUsageNormal</td>
<td>enterprise.8164.1.1000.2.83</td>
<td>Information</td>
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<tr>
<td>starEmsNotifyServiceProcStart</td>
<td>enterprise.8164.1.1000.2.84</td>
<td>Information</td>
<td>N/A</td>
</tr>
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<td>starEmsNotifyServiceProcStop</td>
<td>enterprise.8164.1.1000.2.85</td>
<td>Major</td>
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<tr>
<td>starEmsNotifyServiceProcDetectRestart</td>
<td>enterprise.8164.1.1000.2.86</td>
<td>Information</td>
<td>N/A</td>
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<tr>
<td>starEmsNotifyServiceProcCPUUsageOverLimit</td>
<td>enterprise.8164.1.1000.2.87</td>
<td>Major</td>
<td>enterprise.8164.1.1000.2.88</td>
</tr>
<tr>
<td>starEmsNotifyServiceProcCPUUsageNormal</td>
<td>enterprise.8164.1.1000.2.88</td>
<td>Information</td>
<td>N/A</td>
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<tr>
<td>starEmsBulkStatCounterThresholdAboveLimit</td>
<td>enterprise.8164.1.1000.2.89</td>
<td>Major</td>
<td>enterprise.8164.1.1000.2.90</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>starEmsBulkStatCounterThresholdNormal</td>
<td>enterprise.8164.1.1000.2.90</td>
<td>Information</td>
<td>N/A</td>
</tr>
<tr>
<td>starEmsCFDBDirAccessible</td>
<td>enterprise.8164.1.1000.2.91</td>
<td>Information</td>
<td>N/A</td>
</tr>
<tr>
<td>starEmsCFDBDirNonAccessible</td>
<td>enterprise.8164.1.1000.2.92</td>
<td>Major</td>
<td>enterprise.8164.1.1000.2.91</td>
</tr>
<tr>
<td>starEmsCFDBDirUsageOverLimit</td>
<td>enterprise.8164.1.1000.2.93</td>
<td>Major</td>
<td>enterprise.8164.1.1000.2.94</td>
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<tr>
<td>starEmsCFDBDirUsageNormal</td>
<td>enterprise.8164.1.1000.2.94</td>
<td>Information</td>
<td>N/A</td>
</tr>
<tr>
<td>starEmsCFDblImportFailed</td>
<td>enterprise.8164.1.1000.2.95</td>
<td>Warning</td>
<td>enterprise.8164.1.1000.2.96</td>
</tr>
<tr>
<td>starEmsCFDblImportSucceeded</td>
<td>enterprise.8164.1.1000.2.96</td>
<td>Information</td>
<td>N/A</td>
</tr>
<tr>
<td>starEmsCFDblExportFailed</td>
<td>enterprise.8164.1.1000.2.97</td>
<td>Warning</td>
<td>enterprise.8164.1.1000.2.98</td>
</tr>
<tr>
<td>starEmsCFDblExportSucceeded</td>
<td>enterprise.8164.1.1000.2.98</td>
<td>Information</td>
<td>N/A</td>
</tr>
<tr>
<td>starEmsCFDblConversionFailed</td>
<td>enterprise.8164.1.1000.2.99</td>
<td>Major</td>
<td>enterprise.8164.1.1000.2.100</td>
</tr>
<tr>
<td>starEmsCFDblConversionSucceeded</td>
<td>enterprise.8164.1.1000.2.100</td>
<td>Information</td>
<td>N/A</td>
</tr>
<tr>
<td>starEmsCFFtpConnectionFailed</td>
<td>enterprise.8164.1.1000.2.101</td>
<td>Warning</td>
<td>N/A</td>
</tr>
<tr>
<td>starEmsBulkStatCounterUsageOverLimit</td>
<td>enterprise.8164.1.1000.2.102</td>
<td>Major</td>
<td>enterprise.8164.1.1000.2.103</td>
</tr>
<tr>
<td>starEmsBulkStatCounterUsageNormal</td>
<td>enterprise.8164.1.1000.2.103</td>
<td>Information</td>
<td>N/A</td>
</tr>
<tr>
<td>starEmsConfigBackupFtpFailed</td>
<td>enterprise.8164.1.1000.2.104</td>
<td>Information</td>
<td>enterprise.8164.1.1000.2.105</td>
</tr>
<tr>
<td>starEmsConfigBackupFtpSuccess</td>
<td>enterprise.8164.1.1000.2.105</td>
<td>Information</td>
<td>N/A</td>
</tr>
</tbody>
</table>
CF Default Trap Severities

The following table lists traps supported by the Content Filtering (CF) service and their corresponding default severity level as defined within the CF application.

Table 3. CF Default Trap Severities

<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>starCfCdpStart</td>
<td>enterprise.8164.100.2.2.1</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfCdpStop</td>
<td>enterprise.8164.100.2.2.2</td>
<td>Critical</td>
<td>enterprise.8164.100.2.2.1</td>
</tr>
<tr>
<td>starCfCdpRestart</td>
<td>enterprise.8164.100.2.2.3</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfCdpApiOpFailed</td>
<td>enterprise.8164.100.2.2.4</td>
<td>Warning</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfCdpApiVerError</td>
<td>enterprise.8164.100.2.2.5</td>
<td>Warning</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfCdpThreshCPUUtilization</td>
<td>enterprise.8164.100.2.2.6</td>
<td>Warning</td>
<td>enterprise.8164.100.2.2.7</td>
</tr>
<tr>
<td>starCfCdpClearThreshCPUUtilization</td>
<td>enterprise.8164.100.2.2.7</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfCdpThreshDiskUtilization</td>
<td>enterprise.8164.100.2.2.8</td>
<td>Major</td>
<td>enterprise.8164.100.2.2.9</td>
</tr>
<tr>
<td>starCfCdpClearThreshDiskUtilization</td>
<td>enterprise.8164.100.2.2.9</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfCdpThreshSwapUtilization</td>
<td>enterprise.8164.100.2.2.10</td>
<td>Major</td>
<td>enterprise.8164.100.2.2.11</td>
</tr>
<tr>
<td>starCfCdpClearThreshSwapUtilization</td>
<td>enterprise.8164.100.2.2.11</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfReStart</td>
<td>enterprise.8164.100.3.2.1</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfReStop</td>
<td>enterprise.8164.100.3.2.2</td>
<td>Major</td>
<td>enterprise.8164.100.3.2.1</td>
</tr>
<tr>
<td>starCfReRestart</td>
<td>enterprise.8164.100.3.2.3</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfReFileParsingAborted</td>
<td>enterprise.8164.100.3.2.4</td>
<td>Warning</td>
<td>N/A</td>
</tr>
<tr>
<td>starCfReThreshCPUUtilization</td>
<td>enterprise.8164.100.3.2.5</td>
<td>Major</td>
<td>enterprise.8164.100.3.2.6</td>
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<tr>
<td>starCfReClearThreshCPUUtilization</td>
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<td>Informational</td>
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<td>starCfReThreshDiskUtilization</td>
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<td>starCfDbThreshCPUUtilization</td>
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<td>starCfDbThreshDiskUtilization</td>
<td>enterprise.8164.100.3.2.11</td>
<td>Major</td>
<td>enterprise.8164.100.3.2.12</td>
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<tr>
<td>starCfDbClearThreshDiskUtilization</td>
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<td>Informational</td>
<td>N/A</td>
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<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>
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<td>Default Severity</td>
<td>Informational Trap ID String</td>
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<td>starCfCciCdpServerReachable</td>
<td>enterprise.8164.100.4.2.3</td>
<td>Informational</td>
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<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>starCfCciThreshCPUPercentage</td>
<td>enterprise.8164.100.4.2.5</td>
<td>Major</td>
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<td>starCfCciClearThreshCPUPercentage</td>
<td>enterprise.8164.100.4.2.6</td>
<td>Informational</td>
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<tr>
<td>starCfCciThreshMemoryUtilization</td>
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<td>Major</td>
<td>enterprise.8164.100.4.2.8</td>
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<tr>
<td>starCfCciClearThreshMemoryUtilization</td>
<td>enterprise.8164.100.4.2.8</td>
<td>Informational</td>
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<tr>
<td>starCfMdbProcStart</td>
<td>enterprise.8164.100.6.2.1</td>
<td>Informational</td>
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</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>
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<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>
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<tr>
<td>starCfMdbProcMemUsageOverLimit</td>
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<td>Major</td>
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<td>starCfMdbProcCpuUsageOverLimit</td>
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<td>Informational</td>
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<td>starCfMdbProcInvalidFileName</td>
<td>enterprise.8164.100.6.2.12</td>
<td>Warning</td>
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<tr>
<td>starCfMdbProcReportErrWithMsg</td>
<td>enterprise.8164.100.6.2.13</td>
<td>Warning</td>
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<tr>
<td>starCfMdbProcCfdcmErrWithMsg</td>
<td>enterprise.8164.100.6.2.14</td>
<td>Warning</td>
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<td>starCfMdbProcMcrdbsErrWithMsg</td>
<td>enterprise.8164.100.6.2.15</td>
<td>Warning</td>
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</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>
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<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>
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<tr>
<td>starLESSPullIntervalMissed</td>
<td>enterprise.8164.1.101.2.5</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starLESSThreshDiskUsage</td>
<td>enterprise.8164.1.101.2.6</td>
<td>Critical</td>
<td>enterprise.8164.1.101.2.7</td>
</tr>
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<td>starLESSThreshClearDiskUsage</td>
<td>enterprise.8164.1.101.2.7</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starLESSFileMissed</td>
<td>enterprise.8164.1.101.2.8</td>
<td>Warning</td>
<td>N/A</td>
</tr>
<tr>
<td>starLESSRemoteConnectionFail</td>
<td>enterprise.8164.1.101.2.9</td>
<td>Critical</td>
<td>enterprise.8164.1.101.2.10</td>
</tr>
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<td>starLESSRemoteConnectionEstablished</td>
<td>enterprise.8164.1.101.2.10</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starLESSFileTransferFail</td>
<td>enterprise.8164.1.101.2.11</td>
<td>Critical</td>
<td>enterprise.8164.1.101.2.12</td>
</tr>
<tr>
<td>starLESSFileTransferComplete</td>
<td>enterprise.8164.1.101.2.12</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starLESSThreshPendingFiles</td>
<td>enterprise.8164.1.101.2.13</td>
<td>Warning</td>
<td>enterprise.8164.1.101.2.14</td>
</tr>
<tr>
<td>starLESSThreshClearPendingFiles</td>
<td>enterprise.8164.1.101.2.14</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starLESSNewHostFound</td>
<td>enterprise.8164.1.101.2.15</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starLESSHostRemoved</td>
<td>enterprise.8164.1.101.2.16</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starGenericLESSApplicationStart</td>
<td>enterprise.8164.1.101.2.17</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starGenericLESSApplicationReStart</td>
<td>enterprise.8164.1.101.2.18</td>
<td>Informational</td>
<td>enterprise.8164.1.101.2.19</td>
</tr>
<tr>
<td>starGenericLESSApplicationStop</td>
<td>enterprise.8164.1.101.2.19</td>
<td>Warning</td>
<td>N/A</td>
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<tr>
<td>starGenericLESSApplicationTerminated</td>
<td>enterprise.8164.1.101.2.20</td>
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</tr>
<tr>
<td>starGenericLESSPullIntervalMissed</td>
<td>enterprise.8164.1.101.2.21</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starGenericLESSThreshDiskUsage</td>
<td>enterprise.8164.1.101.2.22</td>
<td>Critical</td>
<td>enterprise.8164.1.101.2.23</td>
</tr>
<tr>
<td>starGenericLESSThreshClearDiskUsage</td>
<td>enterprise.8164.1.101.2.23</td>
<td>Informational</td>
<td>N/A</td>
</tr>
<tr>
<td>starGenericLESSFileMissed</td>
<td>enterprise.8164.1.101.2.24</td>
<td>Warning</td>
<td>N/A</td>
</tr>
<tr>
<td>starGenericLESSRemoteConnectionFail</td>
<td>enterprise.8164.1.101.2.25</td>
<td>Critical</td>
<td>enterprise.8164.1.101.2.26</td>
</tr>
</tbody>
</table>
### LESS Default Trap Sevities

<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>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>
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<tr>
<td></td>
<td></td>
<td><strong>Note:</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Informational for this release</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>
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<td></td>
<td><strong>Note:</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Informational for this release</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>
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<td><strong>Note:</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Informational for this release</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></td>
<td></td>
<td><strong>Note:</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Informational for this release</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></td>
<td></td>
<td>Note: Warning for this release</td>
<td></td>
</tr>
<tr>
<td>starMURKPIThreshWarningClear</td>
<td>enterprise.8164.103.2.22</td>
<td>Minor</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Note: Informational for this release</td>
<td></td>
</tr>
<tr>
<td>starMURSFTPFailure</td>
<td>enterprise.8164.103.2.23</td>
<td>Critical</td>
<td>enterprise.8164.103.2.24</td>
</tr>
<tr>
<td>starMURSFTPNormal</td>
<td>enterprise.8164.103.2.24</td>
<td>Informational</td>
<td>N/A</td>
</tr>
</tbody>
</table>
PPT Default Trap Severities - StarentMIB

The following table lists traps supported by the Intelligent Policy and Charging Function (IPCF) Policy Provisioning Tool (PPT) and their corresponding default severity level as defined within the IPCF PPT application.

Important: Beginning with Release 14.0, PPT has changed to the Cisco MIB structure. Legacy StarentMIB traps are retained for 12.x users. Please refer to the “PPT Default Trap Severities - CiscoMIB” section below for 14.x information.

<table>
<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>
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>enterprise.9.9.787.0.1</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>N/A</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>cPPTSscUnmanageableNotif</td>
<td>enterprise.9.9.787.0.18</td>
<td>N/A</td>
<td>enterprise.9.9.787.0.19</td>
</tr>
<tr>
<td>cPPTSscManageableNotif</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>
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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:

```bash
[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