



Proprietary MIB Reference

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Introduction

This appendix describes the *pcube* proprietary MIB supported by the SCE platform. A MIB (Management Information Base) is a database of objects that can be monitored by a network management system (NMS). The SCE platform supports both the standard MIB-II and a proprietary Service Control Enterprise MIB. This proprietary *pcube* MIB enables the external management system to perform configuration, performance, troubleshooting and alerting operations specific to the SCE platform, and therefore not provided by the standard MIB.



Note

Information and proprietary MIB files supported by the SCOS can be downloaded from: <http://www.cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml> under the Cisco Service Routing Products section.

- [pcube Enterprise MIB, page B-2](#)
- [pcubeModules \(1.3.6.1.4.1.5655.2\), page B-6](#)
- [pcubeWorkgroup \(1.3.6.1.4.1.5655.4\), page B-16](#)
- [Supported Standards, page B-85](#)

pcube Enterprise MIB

The **pcube** Enterprise MIB splits into four main groups:

- Products
- Modules
- Management
- Workgroup

The **pcube** enterprise tree structure is defined in a MIB file named **PCUBE-SMI.my**.



Note

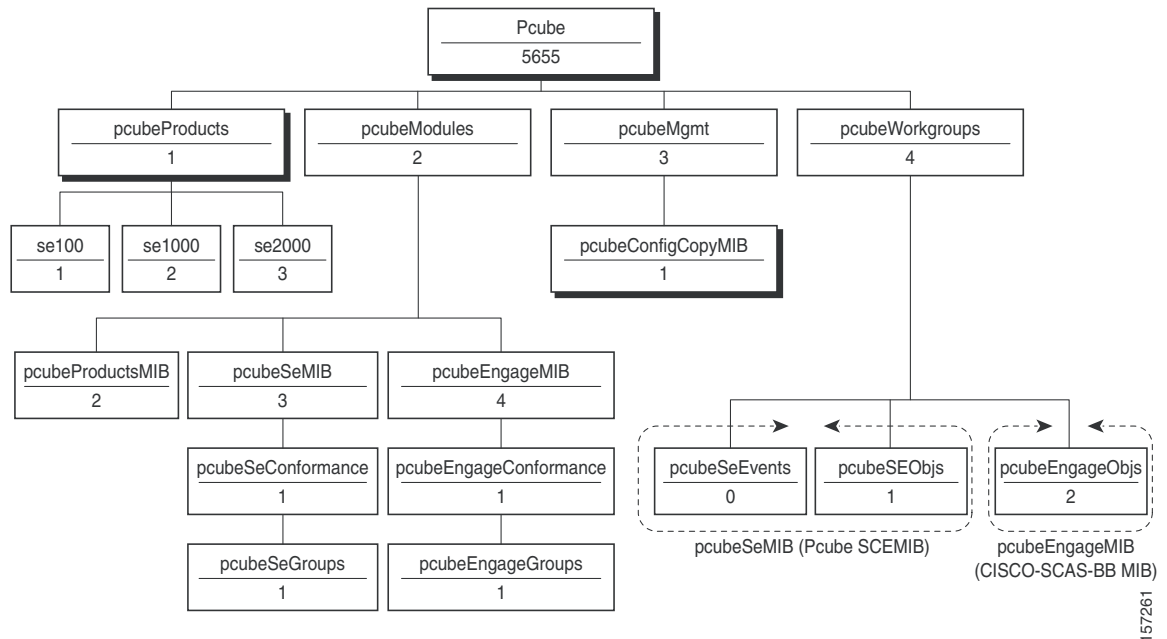
The following object identifier represents the **pcube** Enterprise MIB:
1.3.6.1.4.1.5655, or *iso.org.dod.internet.private.enterprise.pcube*.

The figure below illustrates the **pcube** Service Control Enterprise MIB structure.

Conventions used in the diagram:

- Dotted arrows surrounding a unit or units indicate that the component is described in the MIB file specified below the line.
- A shadowed box indicates that the component is described in its own MIB file.

Figure B-1 Cisco Service Control MIB Structure



The **pcubeProducts** subtree

The **pcubeProducts** subtree contains the OIDs of Cisco Service Control products. These OIDs are used only to describe the Cisco Service Control platforms, not as roots for other OIDs.

This subtree does not contain online data, just global definitions.

The **pcubeProductsMIB** is defined in the MIB file: **PCUBE-PRODUCTS-MIB.my**

The pcubeModules subtree

The **pcubeModules** subtree provides a root object identifier under which MIB modules can be defined. This subtree does not contain online data, just global definitions.

The pcubeMgmt subtree

The **pcubeMgmt** subtree is the root for **pcube** MIBs that are relevant to multiple products.

The pcubeWorkgroups subtree

The **pcubeWorkgroups** subtree contains the actual MIBs for Cisco Service Control devices and sub-devices. This is where the SCE platform, the dispatcher, and also the SCA BB application, hook their actual OIDs and notifications. This means that the branches in this subtree are defined in multiple MIB files.

The pcubeConfigCopyMib subtree

The **pcubeConfigCopy** MIB is a subset of the Cisco Config-Copy-MIB ported to the **pcube** enterprise subtree. It supports only local copying of running config to startup config.

The **pcubeConfigCopyMIB** is defined the MIB file: **PCUBE-CONFIG-COPY-MIB.my**

The config copy MIB is intended for use by all pcube products, and is therefore placed under the pcubeMgmt subtree.

The pcubeSE MIB

The **pcubeSE** MIB comprises two branches:

pcubeSeEvents	Contains the OIDs used for sending enterprise-specific notifications.
pcubeSEObjs	Contains the OIDs that belong to the SCE platform, divided into groups according to functionality.

Application MIB Integration

The *pcubeSeMIB* described above contains information about the SCE platform. Information regarding the SML application running on the SCE platform is available through the following two interfaces:

- *application* and *subscriber* groups of the *pcubeSeMIB*
- *pcubeEngageMIB*

Application and Subscriber groups

These groups allow the operator to view information exposed by the application. In essence, these groups contain tables that allow access to viewables and tuneables defined in the installed SML application. This mechanism is general, and does not require specific adjustments of the SCOS platform for an application. Any installed application can define variables that would then automatically be accessible through the application or subscriber groups.

- [The Application Group, page B-4](#)
- [The Subscriber Group, page B-4](#)

The Application Group

The application group contains information about the application itself. It also contains two tables:

- **appPropertiesTable:**
Contains a list of properties of the application. These properties are SML viewables and tuneables that are defined in global scope. Each property has a name and a type (both are strings).
This table is updated when the application is installed, and has read-only access. It is therefore managed by the agent (the SCOS).
- **appPropertiesValueTable:**
Contains information about the application properties that appear in the *appPropertiesTable*, described above. For each such property, a value is available in one or more formats, as appropriate:
 - String
 - Integer
 - 64-bit Integer.
- This table is a read-write table, which uses the row-status mechanism. With this mechanism it is possible for a management station to add rows to an SNMP table in a pseudo-atomic way. The RowStatus type is defined in *SNMPv2-SMI*.
This table is cleared when an application is unloaded, or when the system resets. The manager may add rows to the table after the system starts, with properties taken from the *appPropertiesTable*, and then it is possible to poll these variables for their values. It is the manager's responsibility to read the value in the correct format (according to the "type" field in the *appPropertiesTable*).
Note that the values cannot be changed through SNMP. Tuneables and Viewables are the same in this respect, they can only be viewed.
Note as well that all the properties in the application group are global properties.

The Subscriber Group

The subscribers group contains global statistics about the subscribers. It also contains two tables, which work in a mechanism very similar to that of the application properties tables described above:

- **subscribersPropertiesTable:**
Contains a list of "subscriber properties" that the installed application has defined. These properties are SML viewables and tuneables that are defined in subscriber scope. Each property has a name and a type (both are strings).
This table is updated when the application is installed, and has read-only access. It is therefore it is managed by the agent (the SCOS).
- **subscribersPropertiesValueTable:**
Like the *appPropertiesValueTable*, this table also uses the RowStatus mechanism to allow addition and removal of rows by the manager. Once a row is created in the *subscriberValueTable*, it is possible to poll the value of the property for the requested subscriber. The values are given in three formats (string, integer, and 64-bit integer, it being the responsibility of the manager to read the appropriate field, according to the type of the property)
In order to retrieve the value of a subscriber property, the manager must supply the following:
 - The name of the property (taken from the *subscriberPropertyTable*)
 - The name of the subscriber for which this value should be polled (the name of the subscriber should be known to the manager, it is not available through SNMP).

- Note that the values of the properties are read-only for viewables and tuneables alike. This table is also used by the *pcubeEngageMIB*.

The Engage MIB (pcubeEngageMIB)

The application group of the *pcubeSeMIB* allows the manager to retrieve information about the application. However, due to its generality, it requires quite a bit of intelligence from the management station. The *pcubeEngageMIB* is an application-specific MIB that supplies information relevant only to the SCA BB (Engage) application.

All information that the application may want to publish is stored in viewables and tuneables. However, there is currently no automatic way for the application to declare that a certain OID should reflect a certain application variable. For this reason, the *Engage* application MIB is actually implemented by the SCOS.

The *Engage* subscriber tables rely on the SCOS subscriber value tables described above. Since there is no table that contains a list of the subscribers in the system, the only subscribers referred to in the *Engage* tables are the ones that appear in the SCOS *subscribersPropertiesValueTable*. The *spvIndex* is used to index the subscribers in the *pcubeEngageMIB* as well.

MIB Updates

The definitions of the following MIB objects have been updated in this document, but the updated definitions may not yet appear in the online MIB.

tpServiceLoss

The average service loss **per second in the last minute** (or since the last time the TP counters were cleared) in a traffic Processor, in units of 0.001%.

In previous versions, it indicated the service loss **since last reboot** or since the last time the counters were cleared.

Using this Reference

This reference describes all existing MIB objects. For each object, the following information is presented:

IDENTIFIERS	MIB descriptor name and OID
DESCRIPTION	Description of the object, including format and legal values, if applicable.
ACCESS	Access control associated with the object: <ul style="list-style-type: none"> Read only (RO) Read/Write (RW)
SYNTAX	The general format of the object.

pcubeModules (1.3.6.1.4.1.5655.2)

pcubeModules provides a root object identifier from which module identity values may be assigned.

Modules:

- PCUBE-SE-MIB: pcubeSeMIB (1.3.6.1.4.1.5655.2.3)
- CISCO-SCAS-BB-MIB: pcubeEngageMIB (1.3.6.1.4.1.5655.2.4) (See the “SCA BB Proprietary MIB Reference” chapter in the *Cisco Service Control Application for Broadband Reference Guide* for a description of the CISCO-SCAS-BB-MIB.)

pcubeSeMIB (1.3.6.1.4.1.5655.2.3)

Main SNMP MIB for the Cisco SCE products such as SCE 2000 and SCE 1000. This MIB provides configuration and runtime status for chassis, control modules, and line modules on the SCOS systems.

- [pcubeSeMIB Object Groups \(1.3.6.1.4.1.5655.2.3.1.1\)](#), page B-6
- [pcubeCompliances \(1.3.6.1.4.1.5655.2.3.1.2\)](#), page B-14

pcubeSeMIB Object Groups (1.3.6.1.4.1.5655.2.3.1.1)

Following is a list of the pcubeSeMIB object groups. Each object group consists of a number of related objects. All individual objects are listed and described in the pcubeWorkgroup section.

pcubeSystemGroup	{1.3.6.1.4.1.5655.2.3.1.1.1}
pcubeChassisGroup	{1.3.6.1.4.1.5655.2.3.1.1.2}
pcubeModuleGroup	{1.3.6.1.4.1.5655.2.3.1.1.3}
pcubeLinkGroup	{1.3.6.1.4.1.5655.2.3.1.1.4}
pcubeDiskGroup	{1.3.6.1.4.1.5655.2.3.1.1.5}
pcubeRdrFormatterGroup	{1.3.6.1.4.1.5655.2.3.1.1.6}
pcubeLoggerGroup	{1.3.6.1.4.1.5655.2.3.1.1.7}
pcubeSubscribersGroup	{1.3.6.1.4.1.5655.2.3.1.1.8}
pcubeTrafficProcessorGroup	{1.3.6.1.4.1.5655.2.3.1.1.9}
pcubePortGroup	{1.3.6.1.4.1.5655.2.3.1.1.10}
pcubeTxQueuesGroup	{1.3.6.1.4.1.5655.2.3.1.1.11}
pcubeGlobalControllersGroup	{1.3.6.1.4.1.5655.2.3.1.1.12}
pcubeApplicationGroup	{1.3.6.1.4.1.5655.2.3.1.1.13}
pcubeTrafficCountersGroup	{1.3.6.1.4.1.5655.2.3.1.1.14}
pcubeAttackGroup	{1.3.6.1.4.1.5655.2.3.1.1.15}
pcubeVasTrafficForwardingGroup	{1.3.6.1.4.1.5655.2.3.1.1.16}
pcubeMplsVpnAutoLearnGroup	{1.3.6.1.4.1.5655.2.3.1.1.17}
pcubeTrapObjectsGroup	{1.3.6.1.4.1.5655.2.3.1.1.18}

- System Group: pcubeSystemGroup (1.3.6.1.4.1.5655.2.3.1.1.1), page B-7
- Chassis Group: pcubeChassisGroup (1.3.6.1.4.1.5655.2.3.1.1.2), page B-7
- Module Group: pcubeModuleGroup (1.3.6.1.4.1.5655.2.3.1.1.3), page B-8
- Link Group: pcubeLinkGroup (1.3.6.1.4.1.5655.2.3.1.1.4), page B-8
- Disk Group: pcubeDiskGroup (1.3.6.1.4.1.5655.2.3.1.1.5), page B-8
- RDR Formatter Group: pcubeRdrFormatterGroup (1.3.6.1.4.1.5655.2.3.1.1.6), page B-9
- Logger Group: pcubeLoggerGroup (1.3.6.1.4.1.5655.2.3.1.1.7), page B-9
- Subscribers Group: pcubeSubscribersGroup (1.3.6.1.4.1.5655.2.3.1.1.8), page B-10
- Traffic Processor Group: pcubeTrafficProcessorGroup (1.3.6.1.4.1.5655.2.3.1.1.9), page B-10
- Port Group: pcubePortGroup (1.3.6.1.4.1.5655.2.3.1.1.10), page B-12
- Transmit Queues Group: pcubeTxQueuesGroup (1.3.6.1.4.1.5655.2.3.1.1.11), page B-12
- Global Controllers Group: pcubeGlobalControllersGroup (1.3.6.1.4.1.5655.2.3.1.1.12), page B-12
- Application Group: pcubeApplicationGroup (1.3.6.1.4.1.5655.2.3.1.1.13), page B-13
- Traffic Counters Group: pcubeTrafficCountersGroup (1.3.6.1.4.1.5655.2.3.1.1.14), page B-13
- Attack Group: pcubeAttackGroup (1.3.6.1.4.1.5655.2.3.1.1.15), page B-13
- VAS Group: pcubeVasTrafficForwardingGroup (1.3.6.1.4.1.5655.2.3.1.1.16), page B-14
- MPLS/VPN Group: pcubeMplsVpnAutoLearnGroup (1.3.6.1.4.1.5655.2.3.1.1.17), page B-14
- Traps Group: pcubeTrapObjectsGroup (1.3.6.1.4.1.5655.2.3.1.1.18), page B-14

System Group: pcubeSystemGroup (1.3.6.1.4.1.5655.2.3.1.1.1)

The System group provides data on the system-wide functionality of the SCE platform.

Objects:

1. sysOperationalStatus (1.3.6.1.4.1.5655.4.1.1.1), page B-30
2. sysFailureRecovery (1.3.6.1.4.1.5655.4.1.1.2), page B-30
3. sysVersion (1.3.6.1.4.1.5655.4.1.1.3), page B-30

Chassis Group: pcubeChassisGroup (1.3.6.1.4.1.5655.2.3.1.1.2)

The Chassis group defines and identifies the chassis, as well as environmental alarms related to the chassis.

Objects:

1. pchassisSysType (1.3.6.1.4.1.5655.4.1.2.1), page B-31
2. pchassisPowerSupplyAlarm (1.3.6.1.4.1.5655.4.1.2.2), page B-31
3. pchassisFansAlarm (1.3.6.1.4.1.5655.4.1.2.3), page B-31
4. pchassisTempAlarm (1.3.6.1.4.1.5655.4.1.2.4), page B-32
5. pchassisVoltageAlarm (1.3.6.1.4.1.5655.4.1.2.5), page B-32
6. pchassisNumSlots (1.3.6.1.4.1.5655.4.1.2.6), page B-32
7. pchassisSlotConfig (1.3.6.1.4.1.5655.4.1.2.7), page B-32
8. pchassisPsuType (1.3.6.1.4.1.5655.4.1.2.8), page B-33
9. pchassisLineFeedAlarm (1.3.6.1.4.1.5655.4.1.2.9), page B-33

Module Group: pcubeModuleGroup (1.3.6.1.4.1.5655.2.3.1.1.3)

The Module group identifies and defines the modules, or cards, in the SCE platform.

Objects:

1. [pmoduleIndex \(1.3.6.1.4.1.5655.4.1.3.1.1.1\)](#), page B-34
2. [pmoduleType \(1.3.6.1.4.1.5655.4.1.3.1.1.2\)](#), page B-34
3. [pmoduleNumTrafficProcessors \(1.3.6.1.4.1.5655.4.1.3.1.1.3\)](#), page B-35
4. [pmoduleSlotNum \(1.3.6.1.4.1.5655.4.1.3.1.1.4\)](#), page B-35
5. [pmoduleHwVersion \(1.3.6.1.4.1.5655.4.1.3.1.1.5\)](#), page B-35
6. [pmoduleNumPorts \(1.3.6.1.4.1.5655.4.1.3.1.1.6\)](#), page B-35
7. [pmoduleNumLinks \(1.3.6.1.4.1.5655.4.1.3.1.1.7\)](#), page B-35
8. [pmoduleConnectionMode \(1.3.6.1.4.1.5655.4.1.3.1.1.8\)](#), page B-36
9. [pmoduleSerialNumber \(1.3.6.1.4.1.5655.4.1.3.1.1.9\)](#), page B-36
10. [pmoduleUpStreamAttackFilteringTime \(1.3.6.1.4.1.5655.4.1.3.1.1.10\)](#), page B-36
11. [pmoduleUpStreamLastAttackFilteringTime \(1.3.6.1.4.1.5655.4.1.3.1.1.11\)](#), page B-36
12. [pmoduleDownStreamAttackFilteringTime \(1.3.6.1.4.1.5655.4.1.3.1.1.12\)](#), page B-37
13. [pmoduleDownStreamLastAttackFilteringTime \(1.3.6.1.4.1.5655.4.1.3.1.1.13\)](#), page B-37
14. [pmoduleAttackObjectsClearTime \(1.3.6.1.4.1.5655.4.1.3.1.1.14\)](#), page B-37
15. [pmoduleAdminStatus \(1.3.6.1.4.1.5655.4.1.3.1.1.15\)](#), page B-37
16. [pmoduleOperStatus \(1.3.6.1.4.1.5655.4.1.3.1.1.16\)](#), page B-37

Link Group: pcubeLinkGroup (1.3.6.1.4.1.5655.2.3.1.1.4)

The Link group defines and identifies the link. It provides information regarding the mode of operation of the link defined for each status of the platform.

Objects:

1. [linkModuleIndex \(1.3.6.1.4.1.5655.4.1.4.1.1.1\)](#), page B-38
2. [linkIndex \(1.3.6.1.4.1.5655.4.1.4.1.1.2\)](#), page B-39
3. [linkAdminModeOnActive \(1.3.6.1.4.1.5655.4.1.4.1.1.3\)](#), page B-39
4. [linkAdminModeOnFailure \(1.3.6.1.4.1.5655.4.1.4.1.1.4\)](#), page B-39
5. [linkOperMode \(1.3.6.1.4.1.5655.4.1.4.1.1.5\)](#), page B-40
6. [linkStatusReflectionEnable \(1.3.6.1.4.1.5655.4.1.4.1.1.6\)](#), page B-40
7. [linkSubscriberSidePortIndex \(1.3.6.1.4.1.5655.4.1.4.1.1.7\)](#), page B-40
8. [linkNetworkSidePortIndex \(1.3.6.1.4.1.5655.4.1.4.1.1.8\)](#), page B-40

Disk Group: pcubeDiskGroup (1.3.6.1.4.1.5655.2.3.1.1.5)

The Disk group provides data regarding the space utilization on the disk.

Objects:

1. [diskNumUsedBytes \(1.3.6.1.4.1.5655.4.1.5.1\)](#), page B-41
2. [diskNumFreeBytes \(1.3.6.1.4.1.5655.4.1.5.2\)](#), page B-41

RDR Formatter Group: pcubeRdrFormatterGroup (1.3.6.1.4.1.5655.2.3.1.1.6)

The RDR Formatter provides information regarding RDR Formatter destinations (Collection Managers), as well as RDR statistics.

Objects:

1. [rdrFormatterEnable \(1.3.6.1.4.1.5655.4.1.6.1\)](#), page B-41
2. [rdrFormatterDestIPAddr \(1.3.6.1.4.1.5655.4.1.6.2.1.1\)](#), page B-42
3. [rdrFormatterDestPort \(1.3.6.1.4.1.5655.4.1.6.2.1.2\)](#), page B-42
4. [rdrFormatterDestPriority \(1.3.6.1.4.1.5655.4.1.6.2.1.3\)](#), page B-42
5. [rdrFormatterDestStatus \(1.3.6.1.4.1.5655.4.1.6.2.1.4\)](#), page B-43
6. [rdrFormatterDestConnectionStatus \(1.3.6.1.4.1.5655.4.1.6.2.1.5\)](#), page B-43
7. [rdrFormatterDestNumReportsSent \(1.3.6.1.4.1.5655.4.1.6.2.1.6\)](#), page B-43
8. [rdrFormatterDestNumReportsDiscarded \(1.3.6.1.4.1.5655.4.1.6.2.1.7\)](#), page B-43
9. [rdrFormatterDestReportRate \(1.3.6.1.4.1.5655.4.1.6.2.1.8\)](#), page B-44
10. [rdrFormatterDestReportRatePeak \(1.3.6.1.4.1.5655.4.1.6.2.1.9\)](#), page B-44
11. [rdrFormatterDestReportRatePeakTime \(1.3.6.1.4.1.5655.4.1.6.2.1.10\)](#), page B-44
12. [rdrFormatterNumReportsSent \(1.3.6.1.4.1.5655.4.1.6.3\)](#), page B-44
13. [rdrFormatterNumReportsDiscarded \(1.3.6.1.4.1.5655.4.1.6.4\)](#), page B-44
14. [rdrFormatterClearCountersTime \(1.3.6.1.4.1.5655.4.1.6.5\)](#), page B-45
15. [rdrFormatterReportRate \(1.3.6.1.4.1.5655.4.1.6.6\)](#), page B-45
16. [rdrFormatterReportRatePeak \(1.3.6.1.4.1.5655.4.1.6.7\)](#), page B-45
17. [rdrFormatterReportRatePeakTime \(1.3.6.1.4.1.5655.4.1.6.8\)](#), page B-45
18. [rdrFormatterProtocol \(1.3.6.1.4.1.5655.4.1.6.9\)](#), page B-45
19. [rdrFormatterForwardingMode \(1.3.6.1.4.1.5655.4.1.6.10\)](#), page B-46
20. [rdrFormatterCategoryIndex \(1.3.6.1.4.1.5655.4.1.6.11.1.1\)](#), page B-46
21. [rdrFormatterCategoryName \(1.3.6.1.4.1.5655.4.1.6.11.1.2\)](#), page B-47
22. [rdrFormatterCategoryNumReportsSent \(1.3.6.1.4.1.5655.4.1.6.11.1.3\)](#), page B-47
23. [rdrFormatterCategoryNumReportsDiscarded \(1.3.6.1.4.1.5655.4.1.6.11.1.4\)](#), page B-47
24. [rdrFormatterCategoryReportRate \(1.3.6.1.4.1.5655.4.1.6.11.1.5\)](#), page B-47
25. [rdrFormatterCategoryReportRatePeak \(1.3.6.1.4.1.5655.4.1.6.11.1.6\)](#), page B-47
26. [rdrFormatterCategoryReportRatePeakTime \(1.3.6.1.4.1.5655.4.1.6.11.1.7\)](#), page B-48
27. [rdrFormatterCategoryNumReportsQueued \(1.3.6.1.4.1.5655.4.1.6.11.1.8\)](#), page B-48
28. [rdrFormatterCategoryDestPriority \(1.3.6.1.4.1.5655.4.1.6.12.1.1\)](#), page B-48
29. [rdrFormatterCategoryDestStatus \(1.3.6.1.4.1.5655.4.1.6.12.1.2\)](#), page B-49

Logger Group: pcubeLoggerGroup (1.3.6.1.4.1.5655.2.3.1.1.7)

The Logger group is responsible for logging the system synchronous and asynchronous events.

Objects:

1. [loggerUserLogEnable \(1.3.6.1.4.1.5655.4.1.7.1\)](#), page B-49
2. [loggerUserLogNumInfo \(1.3.6.1.4.1.5655.4.1.7.2\)](#), page B-49

3. [loggerUserLogNumWarning \(1.3.6.1.4.1.5655.4.1.7.3\)](#), page B-50
4. [loggerUserLogNumError \(1.3.6.1.4.1.5655.4.1.7.4\)](#), page B-50
5. [loggerUserLogNumFatal \(1.3.6.1.4.1.5655.4.1.7.5\)](#), page B-50
6. [loggerUserLogClearCountersTime \(1.3.6.1.4.1.5655.4.1.7.6\)](#), page B-50

Subscribers Group: pcubeSubscribersGroup (1.3.6.1.4.1.5655.2.3.1.1.8)

The Subscribers group provides statistics concerning the number of subscribers and subscriber mappings. It also provides data on the subscriber properties and the value of those properties for a specified subscriber.

Objects:

1. [subscribersNumIntroduced \(1.3.6.1.4.1.5655.4.1.8.1.1.1\)](#), page B-51
2. [subscribersNumFree \(1.3.6.1.4.1.5655.4.1.8.1.1.2\)](#), page B-51
3. [subscribersNumIpAddrMappings \(1.3.6.1.4.1.5655.4.1.8.1.1.3\)](#), page B-52
4. [subscribersNumIpAddrMappingsFree \(1.3.6.1.4.1.5655.4.1.8.1.1.4\)](#), page B-52
5. [subscribersNumIpRangeMappings \(1.3.6.1.4.1.5655.4.1.8.1.1.5\)](#), page B-52
6. [subscribersNumIpRangeMappingsFree \(1.3.6.1.4.1.5655.4.1.8.1.1.6\)](#), page B-52
7. [subscribersNumVlanMappings \(1.3.6.1.4.1.5655.4.1.8.1.1.7\)](#), page B-52
8. [subscribersNumVlanMappingsFree \(1.3.6.1.4.1.5655.4.1.8.1.1.8\)](#), page B-53
9. [subscribersNumActive \(1.3.6.1.4.1.5655.4.1.8.1.1.9\)](#), page B-53
10. [subscribersNumActivePeak \(1.3.6.1.4.1.5655.4.1.8.1.1.10\)](#), page B-53
11. [subscribersNumActivePeakTime \(1.3.6.1.4.1.5655.4.1.8.1.1.11\)](#), page B-53
12. [subscribersNumUpdates \(1.3.6.1.4.1.5655.4.1.8.1.1.12\)](#), page B-53
13. [subscribersCountersClearTime \(1.3.6.1.4.1.5655.4.1.8.1.1.13\)](#), page B-54
14. [subscribersNumTpIpRangeMappings \(1.3.6.1.4.1.5655.4.1.8.1.1.14\)](#), page B-54
15. [subscribersNumTpIpRangeMappingsFree \(1.3.6.1.4.1.5655.4.1.8.1.1.15\)](#), page B-54
16. [subscribersNumAnonymous \(1.3.6.1.4.1.5655.4.1.8.1.1.16\)](#), page B-54
17. [subscribersNumWithSessions \(1.3.6.1.4.1.5655.4.1.8.1.1.17\)](#), page B-54
18. [spIndex \(1.3.6.1.4.1.5655.4.1.8.2.1.1\)](#), page B-55
19. [spName \(1.3.6.1.4.1.5655.4.1.8.2.1.2\)](#), page B-55
20. [spType \(1.3.6.1.4.1.5655.4.1.8.2.1.3\)](#), page B-55
21. [spvSubName \(1.3.6.1.4.1.5655.4.1.8.3.1.2\)](#), page B-57
22. [spvPropertyName \(1.3.6.1.4.1.5655.4.1.8.3.1.3\)](#), page B-57
23. [spvRowStatus \(1.3.6.1.4.1.5655.4.1.8.3.1.4\)](#), page B-57
24. [spvPropertyStringValue \(1.3.6.1.4.1.5655.4.1.8.3.1.5\)](#), page B-57
25. [spvPropertyUintValue \(1.3.6.1.4.1.5655.4.1.8.3.1.6\)](#), page B-57
26. [spvPropertyCounter64Value \(1.3.6.1.4.1.5655.4.1.8.3.1.7\)](#), page B-58

Traffic Processor Group: pcubeTrafficProcessorGroup (1.3.6.1.4.1.5655.2.3.1.1.9)

The Traffic Processor group provides statistics regarding the traffic flow handled by each traffic processor.

Objects:

1. [tpModuleIndex](#) (1.3.6.1.4.1.5655.4.1.9.1.1.1), page B-59
2. [tpIndex](#) (1.3.6.1.4.1.5655.4.1.9.1.1.2), page B-59
3. [tpTotalNumHandledPackets](#) (1.3.6.1.4.1.5655.4.1.9.1.1.3), page B-59
4. [tpTotalNumHandledFlows](#) (1.3.6.1.4.1.5655.4.1.9.1.1.4), page B-60
5. [tpNumActiveFlows](#) (1.3.6.1.4.1.5655.4.1.9.1.1.5), page B-60
6. [tpNumActiveFlowsPeak](#) (1.3.6.1.4.1.5655.4.1.9.1.1.6), page B-60
7. [tpNumActiveFlowsPeakTime](#) (1.3.6.1.4.1.5655.4.1.9.1.1.7), page B-60
8. [tpNumTcpActiveFlows](#) (1.3.6.1.4.1.5655.4.1.9.1.1.8), page B-60
9. [TpNumTcpActiveFlowsPeak](#) (1.3.6.1.4.1.5655.4.1.9.1.1.9), page B-61
10. [tpNumTcpActiveFlowsPeakTime](#) (1.3.6.1.4.1.5655.4.1.9.1.1.10), page B-61
11. [tpNumUdpActiveFlows](#) (1.3.6.1.4.1.5655.4.1.9.1.1.11), page B-61
12. [tpNumUdpActiveFlowsPeak](#) (1.3.6.1.4.1.5655.4.1.9.1.1.12), page B-61
13. [tpNumUdpActiveFlowsPeakTime](#) (1.3.6.1.4.1.5655.4.1.9.1.1.13), page B-61
14. [tpNumNonTcpUdpActiveFlows](#) (1.3.6.1.4.1.5655.4.1.9.1.1.14), page B-62
15. [tpNumNonTcpUdpActiveFlowsPeak](#) (1.3.6.1.4.1.5655.4.1.9.1.1.15), page B-62
16. [tpNumNonTcpUdpActiveFlowsPeakTime](#) (1.3.6.1.4.1.5655.4.1.9.1.1.16), page B-62
17. [tpTotalNumBlockedPackets](#) (1.3.6.1.4.1.5655.4.1.9.1.1.17), page B-62
18. [tpTotalNumBlockedFlows](#) (1.3.6.1.4.1.5655.4.1.9.1.1.18), page B-62
19. [tpTotalNumDiscardedPacketsDueToBwLimit](#) (1.3.6.1.4.1.5655.4.1.9.1.1.19), page B-63
20. [tpTotalNumWredDiscardedPackets](#) (1.3.6.1.4.1.5655.4.1.9.1.1.20), page B-63
21. [tpTotalNumFragments](#) (1.3.6.1.4.1.5655.4.1.9.1.1.21), page B-63
22. [tpTotalNumNonIpPackets](#) (1.3.6.1.4.1.5655.4.1.9.1.1.22), page B-63
23. [tpTotalNumIpCrcErrPackets](#) (1.3.6.1.4.1.5655.4.1.9.1.1.23), page B-63
24. [tpTotalNumIpLengthErrPackets](#) (1.3.6.1.4.1.5655.4.1.9.1.1.24), page B-64
25. [tpTotalNumIpBroadcastPackets](#) (1.3.6.1.4.1.5655.4.1.9.1.1.25), page B-64
26. [tpTotalNumTtlErrPackets](#) (1.3.6.1.4.1.5655.4.1.9.1.1.26), page B-64
27. [tpTotalNumTcpUdpCrcErrPackets](#) (1.3.6.1.4.1.5655.4.1.9.1.1.27), page B-64
28. [tpClearCountersTime](#) (1.3.6.1.4.1.5655.4.1.9.1.1.28), page B-64
29. [tpHandledPacketsRate](#) (1.3.6.1.4.1.5655.4.1.9.1.1.29), page B-65
30. [tpHandledPacketsRatePeak](#) (1.3.6.1.4.1.5655.4.1.9.1.1.30), page B-65
31. [tpHandledPacketsRatePeakTime](#) (1.3.6.1.4.1.5655.4.1.9.1.1.31), page B-65
32. [tpHandledFlowsRate](#) (1.3.6.1.4.1.5655.4.1.9.1.1.32), page B-65
33. [tpHandledFlowsRatePeak](#) (1.3.6.1.4.1.5655.4.1.9.1.1.33), page B-65
34. [tpHandledFlowsRatePeakTime](#) (1.3.6.1.4.1.5655.4.1.9.1.1.34), page B-66
35. [tpCpuUtilization](#) (1.3.6.1.4.1.5655.4.1.9.1.1.35), page B-66
36. [tpCpuUtilizationPeak](#) (1.3.6.1.4.1.5655.4.1.9.1.1.36), page B-66
37. [tpCpuUtilizationPeakTime](#) (1.3.6.1.4.1.5655.4.1.9.1.1.37), page B-66

38. [tpFlowsCapacityUtilization \(1.3.6.1.4.1.5655.4.1.9.1.1.38\)](#), page B-66
39. [tpFlowsCapacityUtilizationPeak \(1.3.6.1.4.1.5655.4.1.9.1.1.39\)](#), page B-67
40. [tpFlowsCapacityUtilizationPeakTime \(1.3.6.1.4.1.5655.4.1.9.1.1.40\)](#), page B-67
41. [tpServiceLoss \(1.3.6.1.4.1.5655.4.1.9.1.1.41\)](#), page B-67

Port Group: pcubePortGroup (1.3.6.1.4.1.5655.2.3.1.1.10)

The Port group provides data regarding the port, such as its type and speed.

Objects:

1. [pportModuleIndex \(1.3.6.1.4.1.5655.4.1.10.1.1.1\)](#), page B-68
2. [pportIndex \(1.3.6.1.4.1.5655.4.1.10.1.1.2\)](#), page B-68
3. [pportType \(1.3.6.1.4.1.5655.4.1.10.1.1.3\)](#), page B-68
4. [pportNumTxQueues \(1.3.6.1.4.1.5655.4.1.10.1.1.4\)](#), page B-68
5. [pportIfIndex \(1.3.6.1.4.1.5655.4.1.10.1.1.5\)](#), page B-69
6. [pportAdminSpeed \(1.3.6.1.4.1.5655.4.1.10.1.1.6\)](#), page B-69
7. [pportAdminDuplex \(1.3.6.1.4.1.5655.4.1.10.1.1.7\)](#), page B-69
8. [pportOperDuplex \(1.3.6.1.4.1.5655.4.1.10.1.1.8\)](#), page B-69
9. [pportLinkIndex \(1.3.6.1.4.1.5655.4.1.10.1.1.9\)](#), page B-70
10. [pportOperStatus \(1.3.6.1.4.1.5655.4.1.10.1.1.10\)](#), page B-70

Transmit Queues Group: pcubeTxQueuesGroup (1.3.6.1.4.1.5655.2.3.1.1.11)

The Transmit Queues group provides data regarding the transmit queue counters.

Objects:

1. [txQueuesModuleIndex \(1.3.6.1.4.1.5655.4.1.11.1.1.1\)](#), page B-71
2. [txQueuesPortIndex \(1.3.6.1.4.1.5655.4.1.11.1.1.2\)](#), page B-71
3. [txQueuesQueueIndex \(1.3.6.1.4.1.5655.4.1.11.1.1.3\)](#), page B-71
4. [txQueuesDescription \(1.3.6.1.4.1.5655.4.1.11.1.1.4\)](#), page B-71
5. [txQueuesBandwidth \(1.3.6.1.4.1.5655.4.1.11.1.1.5\)](#), page B-72
6. [txQueuesUtilization \(1.3.6.1.4.1.5655.4.1.11.1.1.6\)](#), page B-72
7. [txQueuesUtilizationPeak \(1.3.6.1.4.1.5655.4.1.11.1.1.7\)](#), page B-72
8. [txQueuesUtilizationPeakTime \(1.3.6.1.4.1.5655.4.1.11.1.1.8\)](#), page B-72
9. [txQueuesClearCountersTime \(1.3.6.1.4.1.5655.4.1.11.1.1.9\)](#), page B-72
10. [txQueuesDroppedBytes \(1.3.6.1.4.1.5655.4.1.11.1.1.10\)](#), page B-73

Global Controllers Group: pcubeGlobalControllersGroup (1.3.6.1.4.1.5655.2.3.1.1.12)

The Global Controllers group provides data regarding the Global Controllers configuration and counters.

Objects:

1. [globalControllersModuleIndex \(1.3.6.1.4.1.5655.4.1.12.1.1.1\)](#), page B-73
2. [globalControllersPortIndex \(1.3.6.1.4.1.5655.4.1.12.1.1.2\)](#), page B-74
3. [globalControllersIndex \(1.3.6.1.4.1.5655.4.1.12.1.1.3\)](#), page B-74
4. [globalControllersDescription \(1.3.6.1.4.1.5655.4.1.12.1.1.4\)](#), page B-74

5. [globalControllersBandwidth \(1.3.6.1.4.1.5655.4.1.12.1.1.5\)](#), page B-74
6. [globalControllersUtilization \(1.3.6.1.4.1.5655.4.1.12.1.1.6\)](#), page B-74
7. [globalControllersUtilizationPeak \(1.3.6.1.4.1.5655.4.1.12.1.1.7\)](#), page B-75
8. [globalControllersUtilizationPeakTime \(1.3.6.1.4.1.5655.4.1.12.1.1.8\)](#), page B-75
9. [globalControllersClearCountersTime \(1.3.6.1.4.1.5655.4.1.12.1.1.9\)](#), page B-75
10. [globalControllersDroppedBytes \(1.3.6.1.4.1.5655.4.1.12.1.1.10\)](#), page B-75

Application Group: pcubeApplicationGroup (1.3.6.1.4.1.5655.2.3.1.1.13)

The Application group indicates which application is installed in the SCE platform, and what the properties of the application and values of those properties are.

Objects:

1. [appName \(1.3.6.1.4.1.5655.4.1.13.1.1.1\)](#), page B-76
2. [appDescription \(1.3.6.1.4.1.5655.4.1.13.1.1.2\)](#), page B-76
3. [appVersion \(1.3.6.1.4.1.5655.4.1.13.1.1.3\)](#), page B-76
4. [apIndex \(1.3.6.1.4.1.5655.4.1.13.2.1.1\)](#), page B-77
5. [apName \(1.3.6.1.4.1.5655.4.1.13.2.1.2\)](#), page B-77
6. [apType \(1.3.6.1.4.1.5655.4.1.13.2.1.3\)](#), page B-77
7. [apvPropertyName \(1.3.6.1.4.1.5655.4.1.13.3.1.2\)](#), page B-79
8. [apvRowStatus \(1.3.6.1.4.1.5655.4.1.13.3.1.3\)](#), page B-79
9. [apvPropertyStringValue \(1.3.6.1.4.1.5655.4.1.13.3.1.4\)](#), page B-79
10. [apvPropertyUintValue \(1.3.6.1.4.1.5655.4.1.13.3.1.5\)](#), page B-79
11. [apvPropertyCounter64Value \(1.3.6.1.4.1.5655.4.1.13.3.1.6\)](#), page B-79

Traffic Counters Group: pcubeTrafficCountersGroup (1.3.6.1.4.1.5655.2.3.1.1.14)

The Traffic Counters group provides information regarding the value of different the traffic counters.

Objects:

1. [trafficCounterIndex \(1.3.6.1.4.1.5655.4.1.14.1.1.1\)](#), page B-80
2. [trafficCounterValue \(1.3.6.1.4.1.5655.4.1.14.1.1.2\)](#), page B-80
3. [trafficCounterName \(1.3.6.1.4.1.5655.4.1.14.1.1.3\)](#), page B-80
4. [trafficCounterType \(1.3.6.1.4.1.5655.4.1.14.1.1.4\)](#), page B-81

Attack Group: pcubeAttackGroup (1.3.6.1.4.1.5655.2.3.1.1.15)

The Attack group provides information regarding detected attacks, aggregated by attack type.

Objects:

1. [attackTypeIndex \(1.3.6.1.4.1.5655.4.1.15.1.1.1\)](#), page B-81
2. [attackTypeName \(1.3.6.1.4.1.5655.4.1.15.1.1.2\)](#), page B-82
3. [attackTypeCurrentNumAttacks \(1.3.6.1.4.1.5655.4.1.15.1.1.3\)](#), page B-82
4. [attackTypeTotalNumAttacks \(1.3.6.1.4.1.5655.4.1.15.1.1.4\)](#), page B-82
5. [attackTypeTotalNumFlows \(1.3.6.1.4.1.5655.4.1.15.1.1.5\)](#), page B-82
6. [attackTypeTotalNumSeconds \(1.3.6.1.4.1.5655.4.1.15.1.1.6\)](#), page B-82

VAS Group: pcubeVasTrafficForwardingGroup (1.3.6.1.4.1.5655.2.3.1.1.16)

The VAS group provides information regarding the status of the VAS servers.

Objects:

1. [vasServerIndex \(1.3.6.1.4.1.5655.4.1.16.1.1.1\)](#), page B-83
2. [vasServerId \(1.3.6.1.4.1.5655.4.1.16.1.1.2\)](#), page B-83
3. [vasServerAdminStatus \(1.3.6.1.4.1.5655.4.1.16.1.1.3\)](#), page B-83
4. [vasServerOperStatus \(1.3.6.1.4.1.5655.4.1.16.1.1.4\)](#), page B-84

MPLS/VPN Group: pcubeMplsVpnAutoLearnGroup (1.3.6.1.4.1.5655.2.3.1.1.17)

The MPLS/VPN Group provides data regarding MPLS/VPN auto-learning.

Objects:

1. [mplsVpnMaxHWMappings \(1.3.6.1.4.1.5655.4.1.17.1.1.1\)](#), page B-84
2. [mplsVpnCurrentHWMappings \(1.3.6.1.4.1.5655.4.1.17.1.1.2\)](#), page B-84

Traps Group: pcubeTrapObjectsGroup (1.3.6.1.4.1.5655.2.3.1.1.18)

The traps group includes strings used for notifications.

Objects:

1. **pcubeSeEventGenericString1**
2. **pcubeSeEventGenericString2**
3. **pullRequestNumber**

pcubeCompliances (1.3.6.1.4.1.5655.2.3.1.2)

Module compliance is a compliance statement defined in this MIB module that defines which groups must be implemented.

pcubeCompliance module-compliances (1.3.6.1.4.1.5655.2.3.1.2.1)

A compliance statement defined in this MIB module, for SCE platform SNMP agents.

Module Name:

pcubeSeMIB

Mandatory Groups

1. **pcubeSystemGroup**
2. **pcubeChassisGroup**
3. **pcubeModuleGroup**
4. **pcubeLinkGroup**
5. **pcubeDiskGroup**
6. **pcubeRdrFormatterGroup**
7. **pcubeLoggerGroup**
8. **pcubeSubscribersGroup**
9. **pcubeTrafficProcessorGroup**
10. **pcubePortGroup**

11. **pcubeTxQueuesGroup**
12. **pcubeGlobalControllersGroup**
13. **pcubeApplicationGroup**
14. **pcubeTrafficCountersGroup**
15. **pcubeAttackGroup**
16. **pcubeVasTrafficForwardingGroup**
17. **pcubeMplsVpnAutoLearnGroup**
18. **pcubeTrapObjectsGroup**

pcubeWorkgroup (1.3.6.1.4.1.5655.4)

pcubeWorkgroup is the main subtree for objects and events of the Cisco SCE platform products.

- [Notification Types](#), page B-16
- [pcubeSe Objects](#), page B-23

Notification Types

Table B-1 provides a list of the SCE platform notification types

Table B-1 Cisco SCE Platform Notification Types

operationalStatusOperationalTrap	{1.3.6.1.4.1.5655.4.0.1}
operationalStatusWarningTrap	{1.3.6.1.4.1.5655.4.0.2}
operationalStatusFailureTrap	{1.3.6.1.4.1.5655.4.0.3}
systemResetTrap	{1.3.6.1.4.1.5655.4.0.4}
chassisTempAlarmOnTrap	{1.3.6.1.4.1.5655.4.0.5}
chassisTempAlarmOffTrap	{1.3.6.1.4.1.5655.4.0.6}
chassisVoltageAlarmOnTrap	{1.3.6.1.4.1.5655.4.0.7}
chassisFansAlarmOnTrap	{1.3.6.1.4.1.5655.4.0.8}
chassisPowerSupplyAlarmOnTrap	{1.3.6.1.4.1.5655.4.0.9}
rdrActiveConnectionTrap	{1.3.6.1.4.1.5655.4.0.10}
rdrNoActiveConnectionTrap	{1.3.6.1.4.1.5655.4.0.11}
rdrConnectionUpTrap	{1.3.6.1.4.1.5655.4.0.12}
rdrConnectionDownTrap	{1.3.6.1.4.1.5655.4.0.13}
loggerUserLogIsFullTrap	{1.3.6.1.4.1.5655.4.0.18}
sntpClockDriftWarnTrap	{1.3.6.1.4.1.5655.4.0.19}
linkModeBypassTrap	{1.3.6.1.4.1.5655.4.0.20}
linkModeForwardingTrap	{1.3.6.1.4.1.5655.4.0.21}
linkModeCutoffTrap	{1.3.6.1.4.1.5655.4.0.22}
moduleAttackFilterActivatedTrap	{1.3.6.1.4.1.5655.4.0.25}
moduleAttackFilterDeactivatedTrap	{1.3.6.1.4.1.5655.4.0.26}
moduleEmAgentGenericTrap	{1.3.6.1.4.1.5655.4.0.27}
linkModeSniffingTrap	{1.3.6.1.4.1.5655.4.0.28}
moduleRedundancyReadyTrap	{1.3.6.1.4.1.5655.4.0.29}
moduleRedundantConfigurationMismatchTrap	{1.3.6.1.4.1.5655.4.0.30}
moduleLostRedundancyTrap	{1.3.6.1.4.1.5655.4.0.31}
moduleSmConnectionDownTrap	{1.3.6.1.4.1.5655.4.0.32}
moduleSmConnectionUpTrap	{1.3.6.1.4.1.5655.4.0.33}
moduleOperStatusChangeTrap	{1.3.6.1.4.1.5655.4.0.34}

Table B-1 Cisco SCE Platform Notification Types

portOperStatusChangeTrap	{1.3.6.1.4.1.5655.4.0.35}
chassisLineFeedAlarmOnTrap	{1.3.6.1.4.1.5655.4.0.36}
rdrFormatterCategoryDiscardingReportsTrap	{1.3.6.1.4.1.5655.4.0.37}
rdrFormatterCategoryStoppedDiscardingReports Trap	{1.3.6.1.4.1.5655.4.0.38}
sessionStartedTrap	{1.3.6.1.4.1.5655.4.0.39}
sessionEndedTrap	{1.3.6.1.4.1.5655.4.0.40}
sessionDeniedAccessTrap	{1.3.6.1.4.1.5655.4.0.41}
sessionBadLoginTrap	{1.3.6.1.4.1.5655.4.0.42}
illegalSubscriberMappingTrap	{1.3.6.1.4.1.5655.4.0.43}
loggerLineAttackLogFullTrap	{1.3.6.1.4.1.5655.4.0.44}
vasServerOperationStatusChangeTrap	{1.3.6.1.4.1.5655.4.0.45}
pullRequestNumber	{1.3.6.1.4.1.5655.4.0.46}
pullRequestRetryFailedTrap	{1.3.6.1.4.1.5655.4.0.47}
mplsVpnTotalHWMappingsThresholdExceededT rap	{1.3.6.1.4.1.5655.4.0.48}

- [operationalStatusOperationalTrap \(1.3.6.1.4.1.5655.4.0.1\)](#), page B-18
- [operationalStatusWarningTrap \(1.3.6.1.4.1.5655.4.0.2\)](#), page B-18
- [operationalStatusFailureTrap \(1.3.6.1.4.1.5655.4.0.3\)](#), page B-18
- [systemResetTrap \(1.3.6.1.4.1.5655.4.0.4\)](#), page B-18
- [chassisTempAlarmOnTrap \(1.3.6.1.4.1.5655.4.0.5\)](#), page B-18
- [chassisTempAlarmOffTrap \(1.3.6.1.4.1.5655.4.0.6\)](#), page B-19
- [chassisVoltageAlarmOnTrap \(1.3.6.1.4.1.5655.4.0.7\)](#), page B-19
- [chassisFansAlarmOnTrap \(1.3.6.1.4.1.5655.4.0.8\)](#), page B-19
- [chassisPowerSupplyAlarmOnTrap \(1.3.6.1.4.1.5655.4.0.9\)](#), page B-19
- [rdrActiveConnectionTrap \(1.3.6.1.4.1.5655.4.0.10\)](#), page B-19
- [rdrNoActiveConnectionTrap \(1.3.6.1.4.1.5655.4.0.11\)](#), page B-19
- [rdrConnectionUpTrap \(1.3.6.1.4.1.5655.4.0.12\)](#), page B-19
- [rdrConnectionDownTrap \(1.3.6.1.4.1.5655.4.0.13\)](#), page B-19
- [loggerUserLogIsFullTrap \(1.3.6.1.4.1.5655.4.0.18\)](#), page B-19
- [sntpClockDriftWarnTrap \(1.3.6.1.4.1.5655.4.0.19\)](#), page B-19
- [linkModeBypassTrap \(1.3.6.1.4.1.5655.4.0.20\)](#), page B-20
- [linkModeForwardingTrap \(1.3.6.1.4.1.5655.4.0.21\)](#), page B-20
- [linkModeCutoffTrap \(1.3.6.1.4.1.5655.4.0.22\)](#), page B-20
- [moduleAttackFilterActivatedTrap \(1.3.6.1.4.1.5655.4.0.25\)](#), page B-20
- [moduleAttackFilterDeactivatedTrap \(1.3.6.1.4.1.5655.4.0.26\)](#), page B-20
- [moduleEmAgentGenericTrap \(1.3.6.1.4.1.5655.4.0.27\)](#), page B-21

- [linkModeSniffingTrap \(1.3.6.1.4.1.5655.4.0.28\)](#), page B-21
- [moduleRedundancyReadyTrap \(1.3.6.1.4.1.5655.4.0.29\)](#), page B-21
- [moduleRedundantConfigurationMismatchTrap \(1.3.6.1.4.1.5655.4.0.30\)](#), page B-21
- [moduleLostRedundancyTrap \(1.3.6.1.4.1.5655.4.0.31\)](#), page B-21
- [moduleSmConnectionDownTrap \(1.3.6.1.4.1.5655.4.0.32\)](#), page B-21
- [moduleSmConnectionUpTrap \(1.3.6.1.4.1.5655.4.0.33\)](#), page B-22
- [moduleOperStatusChangeTrap \(1.3.6.1.4.1.5655.4.0.34\)](#), page B-22
- [portOperStatusChangeTrap \(1.3.6.1.4.1.5655.4.0.35\)](#), page B-22
- [chassisLineFeedAlarmOnTrap \(1.3.6.1.4.1.5655.4.0.36\)](#), page B-22
- [rdrFormatterCategoryDiscardingReportsTrap \(1.3.6.1.4.1.5655.4.0.37\)](#), page B-22
- [rdrFormatterCategoryStoppedDiscardingReportsTrap \(1.3.6.1.4.1.5655.4.0.38\)](#), page B-22
- [sessionStartedTrap \(1.3.6.1.4.1.5655.4.0.39\)](#), page B-22
- [sessionEndedTrap \(1.3.6.1.4.1.5655.4.0.40\)](#), page B-22
- [sessionDeniedAccessTrap \(1.3.6.1.4.1.5655.4.0.41\)](#), page B-22
- [sessionBadLoginTrap \(1.3.6.1.4.1.5655.4.0.42\)](#), page B-23
- [illegalSubscriberMappingTrap \(1.3.6.1.4.1.5655.4.0.43\)](#), page B-23
- [loggerLineAttackLogFullTrap \(1.3.6.1.4.1.5655.4.0.44\)](#), page B-23
- [vasServerOperationalStatusChangeTrap \(1.3.6.1.4.1.5655.4.0.45\)](#), page B-23
- [pullRequestNumber \(1.3.6.1.4.1.5655.4.0.46\)](#), page B-23
- [pullRequestRetryFailedTrap \(1.3.6.1.4.1.5655.4.0.47\)](#), page B-23
- [mplsVpnTotalHWMappingsThresholdExceededTrap \(1.3.6.1.4.1.5655.4.0.48\)](#), page B-23

operationalStatusOperationalTrap (1.3.6.1.4.1.5655.4.0.1)

The system operational state of the SCE platform has changed to *Operational* (3).

operationalStatusWarningTrap (1.3.6.1.4.1.5655.4.0.2)

The system operational state of the SCE platform has changed to *Warning* (4).

operationalStatusFailureTrap (1.3.6.1.4.1.5655.4.0.3)

The system operational state of the SCE platform has changed to *Failure* (5).

systemResetTrap (1.3.6.1.4.1.5655.4.0.4)

The agent entity is about to reset itself either per user request or due to a fatal event.

chassisTempAlarmOnTrap (1.3.6.1.4.1.5655.4.0.5)

The **chassisTempAlarm** object in this MIB has transitioned to the *On* (3) state, indicating that the temperature is too high.

chassisTempAlarmOffTrap (1.3.6.1.4.1.5655.4.0.6)

The **chassisTempAlarm** object in this MIB has transitioned to the *Off* (2) state, indicating that the temperature level is back to normal.

chassisVoltageAlarmOnTrap (1.3.6.1.4.1.5655.4.0.7)

The **chassisVoltageAlarm** object in this MIB has transitioned to the *On* (3) state, indicating that the voltage level is out of safe bounds.

chassisFansAlarmOnTrap (1.3.6.1.4.1.5655.4.0.8)

The **chassisFansAlarm** object in this MIB has transitioned to the *On* (3) state, indicating fan malfunction.

chassisPowerSupplyAlarmOnTrap (1.3.6.1.4.1.5655.4.0.9)

The **chassisPowerSupplyAlarm** object in this MIB has transitioned to the *On* (3) state, indicating power supply malfunction.

rdrActiveConnectionTrap (1.3.6.1.4.1.5655.4.0.10)

One of the RDR-formatter connections has become the active connection.

rdrNoActiveConnectionTrap (1.3.6.1.4.1.5655.4.0.11)

There is no active connection between the RDR-formatter and any Collection Manager.

rdrConnectionUpTrap (1.3.6.1.4.1.5655.4.0.12)

The **rdrFormatterDestConnectionStatus** object in this MIB has transitioned to *Up* (2), indicating that one of the RDR-formatter connections was established.

rdrConnectionDownTrap (1.3.6.1.4.1.5655.4.0.13)

The **rdrFormatterDestConnectionStatus** object in this MIB has transitioned to *Down* (3), indicating that one of the RDR-formatter connections was disconnected.

loggerUserLogIsFullTrap (1.3.6.1.4.1.5655.4.0.18)

The User log file is full. The agent entity then rolls to the next file.

sntpClockDriftWarnTrap (1.3.6.1.4.1.5655.4.0.19)

The SNTP agent has not received an SNTP time update for a long period, which may result in a time drift of the agent entity's clock.

linkModeBypassTrap (1.3.6.1.4.1.5655.4.0.20)

The link mode has changed to bypass.

linkModeForwardingTrap (1.3.6.1.4.1.5655.4.0.21)

The link mode has changed to forwarding.

linkModeCutoffTrap (1.3.6.1.4.1.5655.4.0.22)

The link mode has changed to cutoff.

moduleAttackFilterActivatedTrap (1.3.6.1.4.1.5655.4.0.25)

The attack filter module has detected an attack and activated a filter. The type of attack-filter that was activated is returned in pcubeSeEventGenericString1.

Following are several examples of pcubeSeEventGenericString1 for various scenarios:

- **Attack detected automatically** (the number of open flows or ddos-suspected flows has exceeded the maximum configured for the attack detector):
 - **Source of the attack is detected** (at the subscriber side, IP address = 10.1.4.134, attacking the network side using UDP, number of open flows = 10000, configured action is ‘report’):

Attack detected: Attack from IP address 10.1.4.134, from subscriber side, protocol UDP. 10000 concurrent open flows detected, 57 concurrent Ddos-suspected flows detected. Action is: Report.

- **Target of the attack is detected** (at the network side, IP address = 10.1.4.135, being attacked from the subscriber side using ICMP, number of ddos-suspected flows = 500, configured action is ‘block’):

Attack detected: Attack on IP address 10.1.4.135, from subscriber side, protocol ICMP. 745 concurrent open flows detected, 500 concurrent Ddos-suspected flows detected. Action is: Block.

- **Forced filtering** using the ‘force-filter’ command:
 - Action is ‘block’, attack-direction is attack-source, side is subscriber, IP address = 10.1.1.1, and protocol is TCP:

Attack filter: Forced block of flows from IP address 10.1.1.1, from subscriber side, protocol TCP. Attack forced using a force-filter command.

- When the action is ‘report’, attack-direction is attack-destination, side is subscriber, IP address = 10.1.1.1, and protocol is Other:

Attack filter: Forced report to IP address 10.1.1.1, from network side, protocol Other. Attack forced using a force-filter command.

moduleAttackFilterDeactivatedTrap (1.3.6.1.4.1.5655.4.0.26)

The attack filter module has removed a filter that was previously activated.

- Attack filter type — in pcubeSeEventGenericString1 (refer to corresponding moduleAttackFilterActivatedTrap)
- Reason for deactivating the filter — in pcubeSeEventGenericString2

Following are several examples of pcubeSeEventGenericString1 for various scenarios:

- **Attack end detected automatically** (the number of open flows or ddos-suspected flows drops below the minimum value configured for the attack detector):
End-of-attack detected — Attack on IP address 10.1.4.135, from subscriber side, protocol UDP. Action is: Report. Duration 20 seconds, attack comprised of 11736 flows.
End-of-attack detected — Attack from IP address 10.1.4.134, from subscriber side, protocol ICMP. Action is: Block. Duration 10 seconds, attack comprised of 2093 flows.
- **Attack end forced** by a 'dont-filter', or a previous 'force-filter' command is removed:
Attack filter — Forced to end block of flows from IP address 10.1.1.1, from subscriber side, protocol TCP. Attack end forced using a 'no force-filter' or a 'dont-filter' command. Duration 6 seconds, 1 flows blocked.
Attack filter — Forced to end report to IP address 10.1.1.1, from network side, protocol Other. Attack end forced using a 'no force-filter' or a 'dont-filter' command. Duration 13 seconds, attack comprised of 1 flows.

moduleEmAgentGenericTrap (1.3.6.1.4.1.5655.4.0.27)

A generic trap used by the Cisco management agent.

- Trap name — in pcubeSeEventGenericString1 (refer to corresponding moduleAttackFilterActivatedTrap)
- Relevant parameter — in pcubeSeEventGenericString2

linkModeSniffingTrap (1.3.6.1.4.1.5655.4.0.28)

The agent entity has detected that the **linkOperMode** object in this MIB has changed to *sniffing* (5).

moduleRedundancyReadyTrap (1.3.6.1.4.1.5655.4.0.29)

The module was able to connect and synch with a redundant entity, and is now ready to handle fail-over if needed.

moduleRedundantConfigurationMismatchTrap (1.3.6.1.4.1.5655.4.0.30)

The module was not able to synch with a redundant entity, due to an incompatibility in essential configuration parameters between the module and the redundant entity.

moduleLostRedundancyTrap (1.3.6.1.4.1.5655.4.0.31)

The module has lost the ability to perform the fail-over procedure.

moduleSmConnectionDownTrap (1.3.6.1.4.1.5655.4.0.32)

The virtual connection to the SM (Subscriber Manager) is broken.

moduleSmConnectionUpTrap (1.3.6.1.4.1.5655.4.0.33)

The virtual connection to the SM is up and working.

moduleOperStatusChangeTrap (1.3.6.1.4.1.5655.4.0.34)

The value of `moduleOperStatus` has changed.

portOperStatusChangeTrap (1.3.6.1.4.1.5655.4.0.35)

The value of the `portOperStatus` object of the `portIndex` has changed, indicating that the link was either forced down or the force down was released.

chassisLineFeedAlarmOnTrap (1.3.6.1.4.1.5655.4.0.36)

The agent entity has detected that the `chassisLineFeed` object in this MIB has changed to the *on* (3) state.

rdrFormatterCategoryDiscardingReportsTrap (1.3.6.1.4.1.5655.4.0.37)

The agent entity has detected that reports sent to this category are being discarded.

The `rdrFormatterCategoryNumReportsDiscarded` object in this MIB counts the number of discarded reports.

rdrFormatterCategoryStoppedDiscardingReportsTrap (1.3.6.1.4.1.5655.4.0.38)

The agent entity has detected that reports sent to this category are no longer being discarded.

The `rdrFormatterCategoryNumReportsDiscarded` object in this MIB counts the number of discarded reports.

sessionStartedTrap (1.3.6.1.4.1.5655.4.0.39)

The agent entity has accepted a new session. The `pcubeSeEventGenericString1` contains the session type (telnet/SSH) and client IP address.

sessionEndedTrap (1.3.6.1.4.1.5655.4.0.40)

The agent entity has detected the end of a session. The `pcubeSeEventGenericString1` contains the session type (telnet/SSH) and client IP address.

sessionDeniedAccessTrap (1.3.6.1.4.1.5655.4.0.41)

The agent entity has refused a session from unauthorized source. The `pcubeSeEventGenericString1` contains the session type (telnet/SSH) and client IP address.

sessionBadLoginTrap (1.3.6.1.4.1.5655.4.0.42)

The agent entity has detected attempt to login with a wrong password. The *pcubeSeEventGenericString1* contains the session type (telnet/SSH) and client IP address.

illegalSubscriberMappingTrap (1.3.6.1.4.1.5655.4.0.43)

The agent entity has detected that an external entity has attempted to create an illegal or inconsistent subscriber mapping.

pcubeSeEventGenericString1 contains a message describing the problem.

loggerLineAttackLogFullTrap (1.3.6.1.4.1.5655.4.0.44)

The agent entity has detected that the attack log is full and a new log file is opened.

vasServerOperationalStatusChangeTrap (1.3.6.1.4.1.5655.4.0.45)

The agent entity has detected a change in the operational status of a VAS server.

pullRequestNumber (1.3.6.1.4.1.5655.4.0.46)

The number of pull requests currently issued for the anonymous subscriber identified in the **pullRequestRetryFailedTrap**.

Always returns a value of 0.

pullRequestRetryFailedTrap (1.3.6.1.4.1.5655.4.0.47)

An unknown subscriber could not be identified after a certain number of pull requests, and is suspected to be an intruder.

pcubeSeEventGenericString1 contains subscriber ID.

mplsVpnTotalHWMappingsThresholdExceededTrap (1.3.6.1.4.1.5655.4.0.48)

The value of **mplsVpnCurrentHWMappings** exceeds the allowed threshold.

pcubeSe Objects

The *pcubeSe* objects provide configuration and runtime status for the SCE platform.

- [sysOperationalStatus \(1.3.6.1.4.1.5655.4.1.1.1\)](#), page B-30
- [sysFailureRecovery \(1.3.6.1.4.1.5655.4.1.1.2\)](#), page B-30
- [sysVersion \(1.3.6.1.4.1.5655.4.1.1.3\)](#), page B-30
- [pchassisSysType \(1.3.6.1.4.1.5655.4.1.2.1\)](#), page B-31
- [pchassisPowerSupplyAlarm \(1.3.6.1.4.1.5655.4.1.2.2\)](#), page B-31
- [pchassisFansAlarm \(1.3.6.1.4.1.5655.4.1.2.3\)](#), page B-31

- pchassisTempAlarm (1.3.6.1.4.1.5655.4.1.2.4), page B-32
- pchassisVoltageAlarm (1.3.6.1.4.1.5655.4.1.2.5), page B-32
- pchassisNumSlots (1.3.6.1.4.1.5655.4.1.2.6), page B-32
- pchassisSlotConfig (1.3.6.1.4.1.5655.4.1.2.7), page B-32
- pchassisPsuType (1.3.6.1.4.1.5655.4.1.2.8), page B-33
- pchassisLineFeedAlarm (1.3.6.1.4.1.5655.4.1.2.9), page B-33
- pmoduleTable (1.3.6.1.4.1.5655.4.1.3.1), page B-33
- pmoduleEntry (1.3.6.1.4.1.5655.4.1.3.1.1), page B-33
- pmoduleIndex (1.3.6.1.4.1.5655.4.1.3.1.1.1), page B-34
- pmoduleType (1.3.6.1.4.1.5655.4.1.3.1.1.2), page B-34
- pmoduleNumTrafficProcessors (1.3.6.1.4.1.5655.4.1.3.1.1.3), page B-35
- pmoduleSlotNum (1.3.6.1.4.1.5655.4.1.3.1.1.4), page B-35
- pmoduleHwVersion (1.3.6.1.4.1.5655.4.1.3.1.1.5), page B-35
- pmoduleNumPorts (1.3.6.1.4.1.5655.4.1.3.1.1.6), page B-35
- pmoduleNumLinks (1.3.6.1.4.1.5655.4.1.3.1.1.7), page B-35
- pmoduleConnectionMode (1.3.6.1.4.1.5655.4.1.3.1.1.8), page B-36
- pmoduleSerialNumber (1.3.6.1.4.1.5655.4.1.3.1.1.9), page B-36
- pmoduleUpStreamAttackFilteringTime (1.3.6.1.4.1.5655.4.1.3.1.1.10), page B-36
- pmoduleUpStreamLastAttackFilteringTime (1.3.6.1.4.1.5655.4.1.3.1.1.11), page B-36
- pmoduleDownStreamAttackFilteringTime (1.3.6.1.4.1.5655.4.1.3.1.1.12), page B-37
- pmoduleDownStreamLastAttackFilteringTime (1.3.6.1.4.1.5655.4.1.3.1.1.13), page B-37
- pmoduleAttackObjectsClearTime (1.3.6.1.4.1.5655.4.1.3.1.1.14), page B-37
- pmoduleAdminStatus (1.3.6.1.4.1.5655.4.1.3.1.1.15), page B-37
- pmoduleOperStatus (1.3.6.1.4.1.5655.4.1.3.1.1.16), page B-37
- linkTable (1.3.6.1.4.1.5655.4.1.4.1), page B-38
- linkEntry (1.3.6.1.4.1.5655.4.1.4.1.1), page B-38
- linkModuleIndex (1.3.6.1.4.1.5655.4.1.4.1.1.1), page B-38
- linkIndex (1.3.6.1.4.1.5655.4.1.4.1.1.2), page B-39
- linkAdminModeOnActive (1.3.6.1.4.1.5655.4.1.4.1.1.3), page B-39
- linkAdminModeOnFailure (1.3.6.1.4.1.5655.4.1.4.1.1.4), page B-39
- linkOperMode (1.3.6.1.4.1.5655.4.1.4.1.1.5), page B-40
- linkStatusReflectionEnable (1.3.6.1.4.1.5655.4.1.4.1.1.6), page B-40
- linkSubscriberSidePortIndex (1.3.6.1.4.1.5655.4.1.4.1.1.7), page B-40
- linkNetworkSidePortIndex (1.3.6.1.4.1.5655.4.1.4.1.1.8), page B-40
- diskNumUsedBytes (1.3.6.1.4.1.5655.4.1.5.1), page B-41
- diskNumFreeBytes (1.3.6.1.4.1.5655.4.1.5.2), page B-41
- rdrFormatterEnable (1.3.6.1.4.1.5655.4.1.6.1), page B-41
- rdrFormatterDestTable (1.3.6.1.4.1.5655.4.1.6.2), page B-41

- [rdrFormatterDestEntry \(1.3.6.1.4.1.5655.4.1.6.2.1\)](#), page B-42
- [rdrFormatterDestIPAddr \(1.3.6.1.4.1.5655.4.1.6.2.1.1\)](#), page B-42
- [rdrFormatterDestPort \(1.3.6.1.4.1.5655.4.1.6.2.1.2\)](#), page B-42
- [rdrFormatterDestPriority \(1.3.6.1.4.1.5655.4.1.6.2.1.3\)](#), page B-42
- [rdrFormatterDestStatus \(1.3.6.1.4.1.5655.4.1.6.2.1.4\)](#), page B-43
- [rdrFormatterDestConnectionStatus \(1.3.6.1.4.1.5655.4.1.6.2.1.5\)](#), page B-43
- [rdrFormatterDestNumReportsSent \(1.3.6.1.4.1.5655.4.1.6.2.1.6\)](#), page B-43
- [rdrFormatterDestNumReportsDiscarded \(1.3.6.1.4.1.5655.4.1.6.2.1.7\)](#), page B-43
- [rdrFormatterDestReportRate \(1.3.6.1.4.1.5655.4.1.6.2.1.8\)](#), page B-44
- [rdrFormatterDestReportRatePeak \(1.3.6.1.4.1.5655.4.1.6.2.1.9\)](#), page B-44
- [rdrFormatterDestReportRatePeakTime \(1.3.6.1.4.1.5655.4.1.6.2.1.10\)](#), page B-44
- [rdrFormatterNumReportsSent \(1.3.6.1.4.1.5655.4.1.6.3\)](#), page B-44
- [rdrFormatterNumReportsDiscarded \(1.3.6.1.4.1.5655.4.1.6.4\)](#), page B-44
- [rdrFormatterClearCountersTime \(1.3.6.1.4.1.5655.4.1.6.5\)](#), page B-45
- [rdrFormatterReportRate \(1.3.6.1.4.1.5655.4.1.6.6\)](#), page B-45
- [rdrFormatterReportRatePeak \(1.3.6.1.4.1.5655.4.1.6.7\)](#), page B-45
- [rdrFormatterReportRatePeakTime \(1.3.6.1.4.1.5655.4.1.6.8\)](#), page B-45
- [rdrFormatterProtocol \(1.3.6.1.4.1.5655.4.1.6.9\)](#), page B-45
- [rdrFormatterForwardingMode \(1.3.6.1.4.1.5655.4.1.6.10\)](#), page B-46
- [rdrFormatterCategoryTable \(1.3.6.1.4.1.5655.4.1.6.11\)](#), page B-46
- [rdrFormatterCategoryEntry \(1.3.6.1.4.1.5655.4.1.6.11.1\)](#), page B-46
- [rdrFormatterCategoryIndex \(1.3.6.1.4.1.5655.4.1.6.11.1.1\)](#), page B-46
- [rdrFormatterCategoryName \(1.3.6.1.4.1.5655.4.1.6.11.1.2\)](#), page B-47
- [rdrFormatterCategoryNumReportsSent \(1.3.6.1.4.1.5655.4.1.6.11.1.3\)](#), page B-47
- [rdrFormatterCategoryNumReportsDiscarded \(1.3.6.1.4.1.5655.4.1.6.11.1.4\)](#), page B-47
- [rdrFormatterCategoryReportRate \(1.3.6.1.4.1.5655.4.1.6.11.1.5\)](#), page B-47
- [rdrFormatterCategoryReportRatePeak \(1.3.6.1.4.1.5655.4.1.6.11.1.6\)](#), page B-47
- [rdrFormatterCategoryReportRatePeakTime \(1.3.6.1.4.1.5655.4.1.6.11.1.7\)](#), page B-48
- [rdrFormatterCategoryNumReportsQueued \(1.3.6.1.4.1.5655.4.1.6.11.1.8\)](#), page B-48
- [rdrFormatterCategoryDestTable \(1.3.6.1.4.1.5655.4.1.6.12\)](#), page B-48
- [rdrFormatterCategoryDestEntry \(1.3.6.1.4.1.5655.4.1.6.12.1\)](#), page B-48
- [rdrFormatterCategoryDestPriority \(1.3.6.1.4.1.5655.4.1.6.12.1.1\)](#), page B-48
- [rdrFormatterCategoryDestStatus \(1.3.6.1.4.1.5655.4.1.6.12.1.2\)](#), page B-49
- [loggerUserLogEnable \(1.3.6.1.4.1.5655.4.1.7.1\)](#), page B-49
- [loggerUserLogNumInfo \(1.3.6.1.4.1.5655.4.1.7.2\)](#), page B-49
- [loggerUserLogNumWarning \(1.3.6.1.4.1.5655.4.1.7.3\)](#), page B-50
- [loggerUserLogNumError \(1.3.6.1.4.1.5655.4.1.7.4\)](#), page B-50
- [loggerUserLogNumFatal \(1.3.6.1.4.1.5655.4.1.7.5\)](#), page B-50

- [loggerUserLogClearCountersTime \(1.3.6.1.4.1.5655.4.1.7.6\)](#), page B-50
- [subscribersInfoTable \(1.3.6.1.4.1.5655.4.1.8.1\)](#), page B-50
- [subscribersInfoEntry \(1.3.6.1.4.1.5655.4.1.8.1.1\)](#), page B-51
- [subscribersNumIntroduced \(1.3.6.1.4.1.5655.4.1.8.1.1.1\)](#), page B-51
- [subscribersNumFree \(1.3.6.1.4.1.5655.4.1.8.1.1.2\)](#), page B-51
- [subscribersNumIpAddrMappings \(1.3.6.1.4.1.5655.4.1.8.1.1.3\)](#), page B-52
- [subscribersNumIpAddrMappingsFree \(1.3.6.1.4.1.5655.4.1.8.1.1.4\)](#), page B-52
- [subscribersNumIpRangeMappings \(1.3.6.1.4.1.5655.4.1.8.1.1.5\)](#), page B-52
- [subscribersNumIpRangeMappingsFree \(1.3.6.1.4.1.5655.4.1.8.1.1.6\)](#), page B-52
- [subscribersNumVlanMappings \(1.3.6.1.4.1.5655.4.1.8.1.1.7\)](#), page B-52
- [subscribersNumVlanMappingsFree \(1.3.6.1.4.1.5655.4.1.8.1.1.8\)](#), page B-53
- [subscribersNumActive \(1.3.6.1.4.1.5655.4.1.8.1.1.9\)](#), page B-53
- [subscribersNumActivePeak \(1.3.6.1.4.1.5655.4.1.8.1.1.10\)](#), page B-53
- [subscribersNumActivePeakTime \(1.3.6.1.4.1.5655.4.1.8.1.1.11\)](#), page B-53
- [subscribersNumUpdates \(1.3.6.1.4.1.5655.4.1.8.1.1.12\)](#), page B-53
- [subscribersCountersClearTime \(1.3.6.1.4.1.5655.4.1.8.1.1.13\)](#), page B-54
- [subscribersNumTpIpRangeMappings \(1.3.6.1.4.1.5655.4.1.8.1.1.14\)](#), page B-54
- [subscribersNumTpIpRangeMappingsFree \(1.3.6.1.4.1.5655.4.1.8.1.1.15\)](#), page B-54
- [subscribersNumAnonymous \(1.3.6.1.4.1.5655.4.1.8.1.1.16\)](#), page B-54
- [subscribersNumWithSessions \(1.3.6.1.4.1.5655.4.1.8.1.1.17\)](#), page B-54
- [subscribersPropertiesTable \(1.3.6.1.4.1.5655.4.1.8.2\)](#), page B-55
- [subscribersPropertiesEntry \(1.3.6.1.4.1.5655.4.1.8.2.1\)](#), page B-55
- [spIndex \(1.3.6.1.4.1.5655.4.1.8.2.1.1\)](#), page B-55
- [spName \(1.3.6.1.4.1.5655.4.1.8.2.1.2\)](#), page B-55
- [spType \(1.3.6.1.4.1.5655.4.1.8.2.1.3\)](#), page B-55
- [subscriberPropertiesValuesTable \(1.3.6.1.4.1.5655.4.1.8.3\)](#), page B-56
- [subscriberPropertiesValueEntry \(1.3.6.1.4.1.5655.4.1.8.3.1\)](#), page B-56
- [spvIndex \(1.3.6.1.4.1.5655.4.1.8.3.1.1\)](#), page B-56
- [spvSubName \(1.3.6.1.4.1.5655.4.1.8.3.1.2\)](#), page B-57
- [spvPropertyName \(1.3.6.1.4.1.5655.4.1.8.3.1.3\)](#), page B-57
- [spvRowStatus \(1.3.6.1.4.1.5655.4.1.8.3.1.4\)](#), page B-57
- [spvPropertyStringValue \(1.3.6.1.4.1.5655.4.1.8.3.1.5\)](#), page B-57
- [spvPropertyUintValue \(1.3.6.1.4.1.5655.4.1.8.3.1.6\)](#), page B-57
- [spvPropertyCounter64Value \(1.3.6.1.4.1.5655.4.1.8.3.1.7\)](#), page B-58
- [tpInfoTable \(1.3.6.1.4.1.5655.4.1.9.1\)](#), page B-58
- [tpInfoEntry \(1.3.6.1.4.1.5655.4.1.9.1.1\)](#), page B-58
- [tpModuleIndex \(1.3.6.1.4.1.5655.4.1.9.1.1.1\)](#), page B-59
- [tpIndex \(1.3.6.1.4.1.5655.4.1.9.1.1.2\)](#), page B-59

- [tpTotalNumHandledPackets \(1.3.6.1.4.1.5655.4.1.9.1.1.3\)](#), page B-59
- [tpTotalNumHandledFlows \(1.3.6.1.4.1.5655.4.1.9.1.1.4\)](#), page B-60
- [tpNumActiveFlows \(1.3.6.1.4.1.5655.4.1.9.1.1.5\)](#), page B-60
- [tpNumActiveFlowsPeak \(1.3.6.1.4.1.5655.4.1.9.1.1.6\)](#), page B-60
- [tpNumActiveFlowsPeakTime \(1.3.6.1.4.1.5655.4.1.9.1.1.7\)](#), page B-60
- [tpNumTcpActiveFlows \(1.3.6.1.4.1.5655.4.1.9.1.1.8\)](#), page B-60
- [TpNumTcpActiveFlowsPeak \(1.3.6.1.4.1.5655.4.1.9.1.1.9\)](#), page B-61
- [tpNumTcpActiveFlowsPeakTime \(1.3.6.1.4.1.5655.4.1.9.1.1.10\)](#), page B-61
- [tpNumUdpActiveFlows \(1.3.6.1.4.1.5655.4.1.9.1.1.11\)](#), page B-61
- [tpNumUdpActiveFlowsPeak \(1.3.6.1.4.1.5655.4.1.9.1.1.12\)](#), page B-61
- [tpNumUdpActiveFlowsPeakTime \(1.3.6.1.4.1.5655.4.1.9.1.1.13\)](#), page B-61
- [tpNumNonTcpUdpActiveFlows \(1.3.6.1.4.1.5655.4.1.9.1.1.14\)](#), page B-62
- [tpNumNonTcpUdpActiveFlowsPeak \(1.3.6.1.4.1.5655.4.1.9.1.1.15\)](#), page B-62
- [tpNumNonTcpUdpActiveFlowsPeakTime \(1.3.6.1.4.1.5655.4.1.9.1.1.16\)](#), page B-62
- [tpTotalNumBlockedPackets \(1.3.6.1.4.1.5655.4.1.9.1.1.17\)](#), page B-62
- [tpTotalNumBlockedFlows \(1.3.6.1.4.1.5655.4.1.9.1.1.18\)](#), page B-62
- [tpTotalNumDiscardedPacketsDueToBwLimit \(1.3.6.1.4.1.5655.4.1.9.1.1.19\)](#), page B-63
- [tpTotalNumWredDiscardedPackets \(1.3.6.1.4.1.5655.4.1.9.1.1.20\)](#), page B-63
- [tpTotalNumFragments \(1.3.6.1.4.1.5655.4.1.9.1.1.21\)](#), page B-63
- [tpTotalNumNonIpPackets \(1.3.6.1.4.1.5655.4.1.9.1.1.22\)](#), page B-63
- [tpTotalNumIpCrcErrPackets \(1.3.6.1.4.1.5655.4.1.9.1.1.23\)](#), page B-63
- [tpTotalNumIpLengthErrPackets \(1.3.6.1.4.1.5655.4.1.9.1.1.24\)](#), page B-64
- [tpTotalNumIpBroadcastPackets \(1.3.6.1.4.1.5655.4.1.9.1.1.25\)](#), page B-64
- [tpTotalNumTtlErrPackets \(1.3.6.1.4.1.5655.4.1.9.1.1.26\)](#), page B-64
- [tpTotalNumTcpUdpCrcErrPackets \(1.3.6.1.4.1.5655.4.1.9.1.1.27\)](#), page B-64
- [tpClearCountersTime \(1.3.6.1.4.1.5655.4.1.9.1.1.28\)](#), page B-64
- [tpHandledPacketsRate \(1.3.6.1.4.1.5655.4.1.9.1.1.29\)](#), page B-65
- [tpHandledPacketsRatePeak \(1.3.6.1.4.1.5655.4.1.9.1.1.30\)](#), page B-65
- [tpHandledPacketsRatePeakTime \(1.3.6.1.4.1.5655.4.1.9.1.1.31\)](#), page B-65
- [tpHandledFlowsRate \(1.3.6.1.4.1.5655.4.1.9.1.1.32\)](#), page B-65
- [tpHandledFlowsRatePeak \(1.3.6.1.4.1.5655.4.1.9.1.1.33\)](#), page B-65
- [tpHandledFlowsRatePeakTime \(1.3.6.1.4.1.5655.4.1.9.1.1.34\)](#), page B-66
- [tpCpuUtilization \(1.3.6.1.4.1.5655.4.1.9.1.1.35\)](#), page B-66
- [tpCpuUtilizationPeak \(1.3.6.1.4.1.5655.4.1.9.1.1.36\)](#), page B-66
- [tpCpuUtilizationPeakTime \(1.3.6.1.4.1.5655.4.1.9.1.1.37\)](#), page B-66
- [tpFlowsCapacityUtilization \(1.3.6.1.4.1.5655.4.1.9.1.1.38\)](#), page B-66
- [tpFlowsCapacityUtilizationPeak \(1.3.6.1.4.1.5655.4.1.9.1.1.39\)](#), page B-67
- [tpFlowsCapacityUtilizationPeakTime \(1.3.6.1.4.1.5655.4.1.9.1.1.40\)](#), page B-67

- [tpServiceLoss \(1.3.6.1.4.1.5655.4.1.9.1.1.41\)](#), page B-67
- [pportTable \(1.3.6.1.4.1.5655.4.1.10.1\)](#), page B-67
- [pportEntry \(1.3.6.1.4.1.5655.4.1.10.1.1\)](#), page B-67
- [pportModuleIndex \(1.3.6.1.4.1.5655.4.1.10.1.1.1\)](#), page B-68
- [pportIndex \(1.3.6.1.4.1.5655.4.1.10.1.1.2\)](#), page B-68
- [pportType \(1.3.6.1.4.1.5655.4.1.10.1.1.3\)](#), page B-68
- [pportNumTxQueues \(1.3.6.1.4.1.5655.4.1.10.1.1.4\)](#), page B-68
- [pportIfIndex \(1.3.6.1.4.1.5655.4.1.10.1.1.5\)](#), page B-69
- [pportAdminSpeed \(1.3.6.1.4.1.5655.4.1.10.1.1.6\)](#), page B-69
- [pportAdminDuplex \(1.3.6.1.4.1.5655.4.1.10.1.1.7\)](#), page B-69
- [pportOperDuplex \(1.3.6.1.4.1.5655.4.1.10.1.1.8\)](#), page B-69
- [pportLinkIndex \(1.3.6.1.4.1.5655.4.1.10.1.1.9\)](#), page B-70
- [pportOperStatus \(1.3.6.1.4.1.5655.4.1.10.1.1.10\)](#), page B-70
- [txQueuesTable \(1.3.6.1.4.1.5655.4.1.11.1\)](#), page B-70
- [txQueuesEntry \(1.3.6.1.4.1.5655.4.1.11.1.1\)](#), page B-70
- [txQueuesModuleIndex \(1.3.6.1.4.1.5655.4.1.11.1.1.1\)](#), page B-71
- [txQueuesPortIndex \(1.3.6.1.4.1.5655.4.1.11.1.1.2\)](#), page B-71
- [txQueuesQueueIndex \(1.3.6.1.4.1.5655.4.1.11.1.1.3\)](#), page B-71
- [txQueuesDescription \(1.3.6.1.4.1.5655.4.1.11.1.1.4\)](#), page B-71
- [txQueuesBandwidth \(1.3.6.1.4.1.5655.4.1.11.1.1.5\)](#), page B-72
- [txQueuesUtilization \(1.3.6.1.4.1.5655.4.1.11.1.1.6\)](#), page B-72
- [txQueuesUtilizationPeak \(1.3.6.1.4.1.5655.4.1.11.1.1.7\)](#), page B-72
- [txQueuesUtilizationPeakTime \(1.3.6.1.4.1.5655.4.1.11.1.1.8\)](#), page B-72
- [txQueuesClearCountersTime \(1.3.6.1.4.1.5655.4.1.11.1.1.9\)](#), page B-72
- [txQueuesDroppedBytes \(1.3.6.1.4.1.5655.4.1.11.1.1.10\)](#), page B-73
- [globalControllersTable \(1.3.6.1.4.1.5655.4.1.12.1\)](#), page B-73
- [globalControllersEntry \(1.3.6.1.4.1.5655.4.1.12.1.1\)](#), page B-73
- [globalControllersModuleIndex \(1.3.6.1.4.1.5655.4.1.12.1.1.1\)](#), page B-73
- [globalControllersPortIndex \(1.3.6.1.4.1.5655.4.1.12.1.1.2\)](#), page B-74
- [globalControllersIndex \(1.3.6.1.4.1.5655.4.1.12.1.1.3\)](#), page B-74
- [globalControllersDescription \(1.3.6.1.4.1.5655.4.1.12.1.1.4\)](#), page B-74
- [globalControllersBandwidth \(1.3.6.1.4.1.5655.4.1.12.1.1.5\)](#), page B-74
- [globalControllersUtilization \(1.3.6.1.4.1.5655.4.1.12.1.1.6\)](#), page B-74
- [globalControllersUtilizationPeak \(1.3.6.1.4.1.5655.4.1.12.1.1.7\)](#), page B-75
- [globalControllersUtilizationPeakTime \(1.3.6.1.4.1.5655.4.1.12.1.1.8\)](#), page B-75
- [globalControllersClearCountersTime \(1.3.6.1.4.1.5655.4.1.12.1.1.9\)](#), page B-75
- [globalControllersDroppedBytes \(1.3.6.1.4.1.5655.4.1.12.1.1.10\)](#), page B-75
- [appInfoTable \(1.3.6.1.4.1.5655.4.1.13.1\)](#), page B-75

- [appInfoEntry \(1.3.6.1.4.1.5655.4.1.13.1.1\)](#), page B-76
- [appName \(1.3.6.1.4.1.5655.4.1.13.1.1.1\)](#), page B-76
- [appDescription \(1.3.6.1.4.1.5655.4.1.13.1.1.2\)](#), page B-76
- [appVersion \(1.3.6.1.4.1.5655.4.1.13.1.1.3\)](#), page B-76
- [appPropertiesTable \(1.3.6.1.4.1.5655.4.1.13.2\)](#), page B-76
- [appPropertiesEntry \(1.3.6.1.4.1.5655.4.1.13.2.1\)](#), page B-77
- [apIndex \(1.3.6.1.4.1.5655.4.1.13.2.1.1\)](#), page B-77
- [apName \(1.3.6.1.4.1.5655.4.1.13.2.1.2\)](#), page B-77
- [apType \(1.3.6.1.4.1.5655.4.1.13.2.1.3\)](#), page B-77
- [appPropertiesValuesTable \(1.3.6.1.4.1.5655.4.1.13.3\)](#), page B-78
- [appPropertiesValueEntry \(1.3.6.1.4.1.5655.4.1.13.3.1\)](#), page B-78
- [apvIndex \(1.3.6.1.4.1.5655.4.1.13.3.1.1\)](#), page B-78
- [apvPropertyName \(1.3.6.1.4.1.5655.4.1.13.3.1.2\)](#), page B-79
- [apvRowStatus \(1.3.6.1.4.1.5655.4.1.13.3.1.3\)](#), page B-79
- [apvPropertyStringValue \(1.3.6.1.4.1.5655.4.1.13.3.1.4\)](#), page B-79
- [apvPropertyUintValue \(1.3.6.1.4.1.5655.4.1.13.3.1.5\)](#), page B-79
- [apvPropertyCounter64Value \(1.3.6.1.4.1.5655.4.1.13.3.1.6\)](#), page B-79
- [trafficCountersTable \(1.3.6.1.4.1.5655.4.1.14.1\)](#), page B-80
- [trafficCountersEntry \(1.3.6.1.4.1.5655.4.1.14.1.1\)](#), page B-80
- [trafficCounterIndex \(1.3.6.1.4.1.5655.4.1.14.1.1.1\)](#), page B-80
- [trafficCounterValue \(1.3.6.1.4.1.5655.4.1.14.1.1.2\)](#), page B-80
- [trafficCounterName \(1.3.6.1.4.1.5655.4.1.14.1.1.3\)](#), page B-80
- [trafficCounterType \(1.3.6.1.4.1.5655.4.1.14.1.1.4\)](#), page B-81
- [attackTypeTable \(1.3.6.1.4.1.5655.4.1.15.1\)](#), page B-81
- [attackTypeEntry \(1.3.6.1.4.1.5655.4.1.15.1.1\)](#), page B-81
- [attackTypeIndex \(1.3.6.1.4.1.5655.4.1.15.1.1.1\)](#), page B-81
- [attackTypeName \(1.3.6.1.4.1.5655.4.1.15.1.1.2\)](#), page B-82
- [attackTypeCurrentNumAttacks \(1.3.6.1.4.1.5655.4.1.15.1.1.3\)](#), page B-82
- [attackTypeTotalNumAttacks \(1.3.6.1.4.1.5655.4.1.15.1.1.4\)](#), page B-82
- [attackTypeTotalNumFlows \(1.3.6.1.4.1.5655.4.1.15.1.1.5\)](#), page B-82
- [attackTypeTotalNumSeconds \(1.3.6.1.4.1.5655.4.1.15.1.1.6\)](#), page B-82
- [vasServersTable \(1.3.6.1.4.1.5655.4.1.16.1\)](#), page B-83
- [vasServerEntry \(1.3.6.1.4.1.5655.4.1.16.1.1\)](#), page B-83
- [vasServerIndex \(1.3.6.1.4.1.5655.4.1.16.1.1.1\)](#), page B-83
- [vasServerId \(1.3.6.1.4.1.5655.4.1.16.1.1.2\)](#), page B-83
- [vasServerAdminStatus \(1.3.6.1.4.1.5655.4.1.16.1.1.3\)](#), page B-83
- [vasServerOperStatus \(1.3.6.1.4.1.5655.4.1.16.1.1.4\)](#), page B-84
- [mplsVpnSoftwareCountersTable \(1.3.6.1.4.1.5655.4.1.17.1\)](#), page B-84

- [mplsVpnSoftwareCountersEntry \(1.3.6.1.4.1.5655.4.1.17.1.1\)](#), page B-84
- [mplsVpnMaxHWMappings \(1.3.6.1.4.1.5655.4.1.17.1.1.1\)](#), page B-84
- [mplsVpnCurrentHWMappings \(1.3.6.1.4.1.5655.4.1.17.1.1.2\)](#), page B-84

sysOperationalStatus (1.3.6.1.4.1.5655.4.1.1.1)

Indicates the operational status of the system.

Access	RO
--------	----

Syntax

```

INTEGER {
1  (other) – none of the following
2  (boot) – the system is in boot process
3  (operational) – the system is operational
4  (warning) – the system is in Warning status
5  (failure) – the system is in Failure status
}

```

sysFailureRecovery (1.3.6.1.4.1.5655.4.1.1.2)

Indicates the behavior of the system after abnormal boot.

Access	RO
--------	----

Syntax

```

INTEGER {
1  (other) – none of the following
2  (operational) – the system should enter Operational mode after abnormal boot
3  (non-operational) – the system should enter Failure mode after abnormal boot
}

```

sysVersion (1.3.6.1.4.1.5655.4.1.1.3)

The system version.

Access	RO
--------	----

Syntax

```

DisplayString

```

pchassisSysType (1.3.6.1.4.1.5655.4.1.2.1)

The chassis system type.

Access	RO
--------	----

Syntax

```

INTEGER {
  1  (other) – none of the following
  2  (SE1000) – SCE 1000 platform
  3  (SE100) – SCE 100 platform
  4  (SE2000) – SCE 2000 platform
}

```

pchassisPowerSupplyAlarm (1.3.6.1.4.1.5655.4.1.2.2)

Indicates whether the power supply to the chassis is normal. If the alarm is 'on', it means that one or more of the power supplies is not functional

Access	RO
--------	----

Syntax

```

INTEGER {
  1  (other) – none of the following
  2  (off) – the power supply to the chassis is normal
  3  (on) – the power supply to the chassis is not normal, and probably one or more of the
power supplies is not functional.
}

```

pchassisFansAlarm (1.3.6.1.4.1.5655.4.1.2.3)

Indicates whether all the fans on the chassis are functional.

Access	RO
--------	----

Syntax

```

INTEGER {
  1  (other) – none of the following
  2  (off) – all fans are functional
  3  (on) – one or more fans is not functional.
}

```

pchassisTempAlarm (1.3.6.1.4.1.5655.4.1.2.4)

Indicates the chassis temperature alarm status.

Access	RO
--------	----

Syntax

```

INTEGER {
  1  (other) – none of the following
  2  (off) – temperature is within acceptable range
  3  (on) – temperature is too high.
}

```

pchassisVoltageAlarm (1.3.6.1.4.1.5655.4.1.2.5)

Indicates the chassis internal voltage alarm status. If the alarm is ‘on’, it indicates that the voltage level of one or more unit in the chassis is not in the normal range.

Access	RO
--------	----

Syntax

```

INTEGER {
  1  (other) – none of the following
  2  (off) – voltage level is within normal range
  3  (on) – voltage level is out of the acceptable bounds.
}

```

pchassisNumSlots (1.3.6.1.4.1.5655.4.1.2.6)

Indicates the number of slots in the chassis available for plug-in modules, including both currently occupied and empty slots.

Access	RO
--------	----

Syntax

```

INTEGER (0..255)

```

pchassisSlotConfig (1.3.6.1.4.1.5655.4.1.2.7)

An indication of which slots in the chassis are occupied.

This is an integer value with bits set to indicate configured modules. It is expressed as the function:

Sum of $f(x)$ as x goes from 1 to the number of slots, where:

- no module inserted — $f(x) = 0$
- module inserted — $f(x) = \exp(2, x-1)$

Access	RO
--------	----

Syntax

```

INTEGER (0..65535)

```


pchassisPsuType (1.3.6.1.4.1.5655.4.1.2.8)

Indicates the type of the power supplies.

Access	RO
--------	----

Syntax

```

INTEGER {
  1 (other) – none of the following
  2 (AC) – AC power supply
  3 (DC) – DC power supply
}

```

pchassisLineFeedAlarm (1.3.6.1.4.1.5655.4.1.2.9)

Indicates whether the line feed to the chassis is connected and whether it is supplying power to the power supply unit.

Access	RO
--------	----

Syntax

```

INTEGER {
  1 (other) – none of the following
  2 (OFF) – The line feed to the chassis is connected and has power
  3 (ON) – The line feed to the chassis is not normal. One or both of the line feeds may
  not be connected properly or have no power.
}

```

pmoduleTable (1.3.6.1.4.1.5655.4.1.3.1)

A list of module entries containing information defining the modules in the chassis.

The number of entries is the number of modules in the chassis.

Access	not-accessible
--------	----------------

Syntax

Sequence of pmoduleEntry

pmoduleEntry (1.3.6.1.4.1.5655.4.1.3.1.1)

Entry containing a number of parameters defining the physical characteristics of one module in the chassis.

Access	not-accessible
--------	----------------

Index

{pmoduleIndex}

Syntax

```

SEQUENCE {
  pmoduleIndex
  pmoduleType
  pmoduleNumTrafficProcessors
  pmoduleSlotNum
  pmoduleHwVersion
  pmoduleNumPorts
  pmoduleNumLinks
  pmoduleConnectionMode
  pmoduleSerialNumber
  pmoduleUpStreamAttackFilteringTime
  pmoduleUpStreamLastAttackFilteringTime
  pmoduleDownStreamAttackFilteringTime
  pmoduleDownStreamLastAttackFilteringTime
  pmoduleAttackObjectsClearTime
  pmoduleAdminStatus
  pmoduleOperStatus
}

```

pmoduleIndex (1.3.6.1.4.1.5655.4.1.3.1.1.1)

An ID number identifying the module. A unique value for each module within the chassis.

Access	RO
--------	----

Syntax

```

INTEGER (1..255)

```

pmoduleType (1.3.6.1.4.1.5655.4.1.3.1.1.2)

The type of module.

Access	RO
--------	----

Syntax

```

INTEGER {
  1 (other) - none of the following
  2 (gbe2Module) - 2 port Gigabit Ethernet line interface, 2 Fast Ethernet 10/100
management interfaces
  3 (fe2Module) - 2 port Fast Ethernet line interface, 1 Fast Ethernet 10/100 management
interface
  4 (gbe4Module) - 4 port Gigabit Ethernet line interface, 2 Fast Ethernet 10/100
management interfaces
  5 (fe4Module) - 4 port Fast Ethernet line interface, 2 Fast Ethernet 10/100 management
interfaces
  6 (oc12-4Module) - 4 port OC12 line interface, 2 Fast Ethernet 10/100 management
interfaces
  7 (fe8Module) - 8 port Fast Ethernet line interface, 2 Fast Ethernet 10/100 management
interfaces
}

```

pmoduleNumTrafficProcessors (1.3.6.1.4.1.5655.4.1.3.1.1.3)

The number of traffic processors supported by the module.

Access	RO
--------	----

Syntax

INTEGER (0..255)

pmoduleSlotNum (1.3.6.1.4.1.5655.4.1.3.1.1.4)

The number of the slot in the chassis in which the module is installed.

Valid entries are from 1 to the value of **pchassisNumSlot s**.

Access	RO
--------	----

Syntax

INTEGER (1..255)

pmoduleHwVersion (1.3.6.1.4.1.5655.4.1.3.1.1.5)

The hardware version of the module.

Access	RO
--------	----

Syntax

DisplayString

pmoduleNumPorts (1.3.6.1.4.1.5655.4.1.3.1.1.6)

The number of ports supported by the module.

Access	RO
--------	----

Syntax

INTEGER (0..255)

pmoduleNumLinks (1.3.6.1.4.1.5655.4.1.3.1.1.7)

The number of links carrying inband traffic that are supported by the module. The link is uniquely defined by the two ports that are at its endpoints.

Access	RO
--------	----

Syntax

INTEGER (0..255)

pmoduleConnectionMode (1.3.6.1.4.1.5655.4.1.3.1.1.8)

Indicates the connection mode of the module.

Access	RO
--------	----

Syntax

```

INTEGER {
  1 (other) – none of the following
  2 (inline) – SCE is both receiving and transmitting traffic on the line ports.
  3 (receive-only) – SCE can only receive packets from the line ports. This mode is
    suitable for external splitting topology.
  4 (inline-cascade) – SCE is both receiving and transmitting traffic on the line ports and
    the cascade ports.
  5 (receive-only-cascade) – SCE can only receive packets from the line and the cascade
    ports. This mode is suitable for external splitting topology
}

```

pmoduleSerialNumber (1.3.6.1.4.1.5655.4.1.3.1.1.9)

The serial number of the module.

Access	RO
--------	----

Syntax

DisplayString

pmoduleUpStreamAttackFilteringTime (1.3.6.1.4.1.5655.4.1.3.1.1.10)

The accumulated time (in hundredths of a second) during which attack up-stream traffic was filtered.

Access	RO
--------	----

Syntax

TimeTicks

pmoduleUpStreamLastAttackFilteringTime (1.3.6.1.4.1.5655.4.1.3.1.1.11)

The time (in hundredths of a second) since the previous attack filtered in the up-stream traffic.

Access	RO
--------	----

Syntax

TimeTicks

pmoduleDownStreamAttackFilteringTime (1.3.6.1.4.1.5655.4.1.3.1.1.12)

The accumulated time (in hundredths of a second) during which attack down-stream traffic was filtered.

Access	RO
--------	----

Syntax

TimeTicks

pmoduleDownStreamLastAttackFilteringTime (1.3.6.1.4.1.5655.4.1.3.1.1.13)

The time (in hundredths of a second) since the previous attack filtered in the down-stream traffic.

Access	RO
--------	----

Syntax

TimeTicks

pmoduleAttackObjectsClearTime (1.3.6.1.4.1.5655.4.1.3.1.1.14)

The time (in hundredths of a second) since the attack objects were cleared. Writing a 0 to this object causes the counters to be cleared.

Access	RO
--------	----

Syntax

TimeTicks

pmoduleAdminStatus (1.3.6.1.4.1.5655.4.1.3.1.1.15)

Indicates whether the module is configured to handle traffic on startup or reboot (active), to be the hot standby.

Access	RO
--------	----

Syntax

```

INTEGER {
  1 (other) - none of the following
  2 (primary) - Handle traffic on startup.
  3 (secondary) - Fail-over module on startup.
}

```

pmoduleOperStatus (1.3.6.1.4.1.5655.4.1.3.1.1.16)

Indicates whether the module is currently handling (active), or is on standby.

Access	RO
--------	----

Syntax

```

INTEGER {
  1 (other) – none of the following
  2 (active) – Currently is handling traffic.
  3 (standby) – Currently is the fail-over module.
}

```

linkTable (1.3.6.1.4.1.5655.4.1.4.1)

A list of link entries containing information regarding the configuration and status of the links that pass through the SCE platform and carry in-band traffic.

The number of entries is determined by the number of modules in the chassis and the number of links on each module.

Access	not-accessible
--------	----------------

Syntax

Sequence of linkEntry

linkEntry (1.3.6.1.4.1.5655.4.1.4.1.1)

Entry containing information about the Link.

Access	not-accessible
--------	----------------

Index

{linkModuleIndex, linkIndex}

Syntax

```

SEQUENCE {
  linkModuleIndex
  linkIndex
  linkAdminModeOnActive
  linkAdminModeOnFailure
  linkOperMode
  linkStatusReflectionEnable
  linkSubscriberSidePortIndex
  linkNetworkSidePortIndex
}

```

linkModuleIndex (1.3.6.1.4.1.5655.4.1.4.1.1.1)

An index value (**pmoduleIndex**) that uniquely identifies the module where this link is located.

Access	RO
--------	----

Syntax

```

INTEGER (1..255)

```

linkIndex (1.3.6.1.4.1.5655.4.1.4.1.1.2)

An index value that uniquely identifies the link within the specified module.

Valid entries are 1 to the value of **pmoduleNumLinks** for this module.

Access	RO
--------	----

Syntax

INTEGER (1..255)

linkAdminModeOnActive (1.3.6.1.4.1.5655.4.1.4.1.1.3)

The desired mode of the link when the operating status of the module is active and it is not in boot or failure.

Possible values (*LinkModeType*):

- *Bypass* — the traffic is forwarded from one port to the other using an internal splitter.
- *Forwarding* — the traffic is forwarded by the internal hardware and software modules of the SCE platform.

Access	RO
--------	----

Syntax

LinkModeType

linkAdminModeOnFailure (1.3.6.1.4.1.5655.4.1.4.1.1.4)

The desired mode of the link when the system status is failure.

Possible values (*LinkModeType*):

- *Bypass* — the traffic is forwarded from one port to the other using an internal splitter.
- *Cutoff* — all traffic is dropped by the SCE.

Access	RO
--------	----

Syntax

LinkModeType

linkOperMode (1.3.6.1.4.1.5655.4.1.4.1.1.5)

The current operational mode of the link.

Possible values (*LinkModeType*):

- *Bypass* — the traffic is forwarded from one port to the other using an internal splitter with no processing taking place.
- *Forwarding* — the traffic is forwarded by the internal hardware and software modules of the SCE.
- *Sniffing* — the traffic is forwarded in the same manner as in Bypass mode, however it passes through and is analysed by the internal software and hardware modules of the SCE platform.

Access	RO
--------	----

Syntax

LinkModeType

linkStatusReflectionEnable (1.3.6.1.4.1.5655.4.1.4.1.1.6)

Indicates whether failure of the physical link on one interface should trigger the failure of the link on the other interface on the module.

Access	RO
--------	----

Syntax

```

INTEGER {
  1  (enabled)
  2  (disabled)
}

```

linkSubscriberSidePortIndex (1.3.6.1.4.1.5655.4.1.4.1.1.7)

An index value that uniquely identifies this link with the related port that is connected to the subscriber side.

Access	RO
--------	----

Syntax

INTEGER (0..255)

linkNetworkSidePortIndex (1.3.6.1.4.1.5655.4.1.4.1.1.8)

An index value that uniquely identifies this link with the related port that is connected to the network side.

Access	RO
--------	----

Syntax

INTEGER (0..255)

diskNumUsedBytes (1.3.6.1.4.1.5655.4.1.5.1)

The number of used bytes on the disk.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

diskNumFreeBytes (1.3.6.1.4.1.5655.4.1.5.2)

The number of free bytes on the disk.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

rdrFormatterEnable (1.3.6.1.4.1.5655.4.1.6.1)

Indicates whether the RDR-formatter is enabled or disabled.

When the RDR-formatter is enabled, it sends the reports it gets from the traffic processors to the Collection Manager as defined in the `rdrFormatterDestTable`.

Access	RO
--------	----

Syntax

```
INTEGER {
  1 (enabled)
  2 (disabled)
}
```

rdrFormatterDestTable (1.3.6.1.4.1.5655.4.1.6.2)

This table lists the addresses of Collection Managers.

If the RDR-formatter is enabled, the destination with the highest priority to which a TCP connection can be established is designated as the active connection, and would receive the reports generated by the traffic processors.

The table may contain a maximum of three entries.

Access	not-accessible
--------	----------------

Syntax

Sequence of `rdrFormatterDestEntry`

rdRFormatterDestEntry (1.3.6.1.4.1.5655.4.1.6.2.1)

Entry defining one RDR destination.

Access	not-accessible
--------	----------------

Index

{rdRFormatterDestIPAddr, rdRFormatterDestPort}

Syntax

```
SEQUENCE {
  rdRFormatterDestIPAddr
  rdRFormatterDestPort
  rdRFormatterDestPriority
  rdRFormatterDestStatus
  rdRFormatterDestConnectionStatus
  rdRFormatterDestNumReportsSent
  rdRFormatterDestNumReportsDiscarded
  rdRFormatterDestReportRate
  rdRFormatterDestReportRatePeak
  rdRFormatterDestReportRatePeakTime
}
```

rdRFormatterDestIPAddr (1.3.6.1.4.1.5655.4.1.6.2.1.1)

The IP address of a Collection Manager.

Access	RO
--------	----

Syntax

IP Address

rdRFormatterDestPort (1.3.6.1.4.1.5655.4.1.6.2.1.2)

The TCP port on which the Collection Manager listens and the to which the RDR-Formatter should connect.

Access	RO
--------	----

Syntax

INTEGER (1...65535)

rdRFormatterDestPriority (1.3.6.1.4.1.5655.4.1.6.2.1.3)

The priority given to the Collection Manager. The active Collection Manager is the Collection Manager with the highest priority whose TCP connection is up.

Access	RO
--------	----

Syntax

INTEGER (1...100)

rdrFormatterDestStatus (1.3.6.1.4.1.5655.4.1.6.2.1.4)

Indicates whether this destination is the active one.

In redundancy and simple-load-balancing modes there can be only one 'active' destination, which is the one to which the reports are sent. In multicast mode all destinations receive the active mode.

Access	RO
--------	----

Syntax

```

INTEGER {
  1  (other) – none of the following
  2  (active) – this destination is where the reports are sent
  3  (standby) – this destination is a backup
}

```

rdrFormatterDestConnectionStatus (1.3.6.1.4.1.5655.4.1.6.2.1.5)

The status of TCP connection to this destination.

Access	RO
--------	----

Syntax

```

INTEGER {
  1  (other) – none of the following
  2  (up) – the TCP connection to this destination is up
  3  (down) – the TCP connection to this destination is down
}

```

rdrFormatterDestNumReportsSent (1.3.6.1.4.1.5655.4.1.6.2.1.6)

The number of reports sent by the RDR-formatter to this destination.

Access	RO
--------	----

Syntax

```

Unsigned32 (0...4294967295)

```

rdrFormatterDestNumReportsDiscarded (1.3.6.1.4.1.5655.4.1.6.2.1.7)

The number of reports dropped by the RDR-formatter at this destination.

Access	RO
--------	----

Syntax

```

Unsigned32 (0...4294967295)

```

rdrFormatterDestReportRate (1.3.6.1.4.1.5655.4.1.6.2.1.8)

The current rate (in reports per second) of sending reports to this destination.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

rdrFormatterDestReportRatePeak (1.3.6.1.4.1.5655.4.1.6.2.1.9)

The maximum rate of sending reports to this destination.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

rdrFormatterDestReportRatePeakTime (1.3.6.1.4.1.5655.4.1.6.2.1.10)

The time (in hundredths of a second) since the **rdrFormatterDestReportRatePeak** value occurred.

Access	RO
--------	----

Syntax

TimeTicks

rdrFormatterNumReportsSent (1.3.6.1.4.1.5655.4.1.6.3)

The number of reports sent by the RDR-formatter.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

rdrFormatterNumReportsDiscarded (1.3.6.1.4.1.5655.4.1.6.4)

The number of reports dropped by the RDR-formatter.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

rdrFormatterClearCountersTime (1.3.6.1.4.1.5655.4.1.6.5)

The time (in hundredths of a second) since the RDR-formatter counters were last cleared. Writing a 0 to this object causes the RDR-formatter counters to be cleared.

Access	RW
--------	----

Syntax

TimeTicks

rdrFormatterReportRate (1.3.6.1.4.1.5655.4.1.6.6)

The current rate (in reports per second) of sending reports to all destinations.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

rdrFormatterReportRatePeak (1.3.6.1.4.1.5655.4.1.6.7)

The maximum rate of sending reports to all destinations.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

rdrFormatterReportRatePeakTime (1.3.6.1.4.1.5655.4.1.6.8)

The time (in hundredths of a second) since the **rdrFormatterReportRatePeak** value occurred.

Access	RO
--------	----

Syntax

TimeTicks

rdrFormatterProtocol (1.3.6.1.4.1.5655.4.1.6.9)

The RDR protocol currently in use.

Access	RO
--------	----

Syntax

```

INTEGER {
  1 (other) - none of the following
  2 (RDRv1) - RDR protocol version 1
  3 (RDRv2) - RDR protocol version 2
}

```

rdrFormatterForwardingMode (1.3.6.1.4.1.5655.4.1.6.10)

The manner in which the RDR formatter sends the reports to the destinations.

Access	RO
--------	----

Syntax

```

INTEGER {
  1 (other) – none of the following
  2 (redundancy) – all RDRs are sent to the primary (active) destination, and all other
  destinations are in standby
  3 (simpleLoadBalancing) – each successive RDR is sent to a different destination, one
  destination after the other, in a round robin manner
  4 (multicast) – all RDRs are sent to all destinations
}

```

rdrFormatterCategoryTable (1.3.6.1.4.1.5655.4.1.6.11)

This table describes the different categories of RDRs and supplies some statistical information about the RDRs sent to these categories.

Access	not-accessible
--------	----------------

Syntax

Sequence of rdrFormatterCategoryEntry

rdrFormatterCategoryEntry (1.3.6.1.4.1.5655.4.1.6.11.1)

Entry containing information about the RDR formatter categories.

Access	not-accessible
--------	----------------

Index

{rdrFormatterCategoryIndex}

Syntax

```

SEQUENCE {
  rdrFormatterCategoryIndex
  rdrFormatterCategoryName
  rdrFormatterCategoryNumReportsSent
  rdrFormatterCategoryNumReportsDiscarded
  rdrFormatterCategoryReportRate
  rdrFormatterCategoryReportRatePeak
  rdrFormatterCategoryReportRatePeakTime
  rdrFormatterCategoryNumReportsQueued
}

```

rdrFormatterCategoryIndex (1.3.6.1.4.1.5655.4.1.6.11.1.1)

The RDR formatter category number.

Access	RO
--------	----

Syntax**INTEGER** (1..4)**rdrFormatterCategoryName (1.3.6.1.4.1.5655.4.1.6.11.1.2)**

The name of the category.

Access	RO
--------	----

Syntax**DisplayString****rdrFormatterCategoryNumReportsSent (1.3.6.1.4.1.5655.4.1.6.11.1.3)**

The number of reports sent by the RDR-formatter to this category.

Access	RO
--------	----

Syntax**Unsigned32** (0...4294967295)**rdrFormatterCategoryNumReportsDiscarded (1.3.6.1.4.1.5655.4.1.6.11.1.4)**

The number of reports dropped by the RDR formatter for this category.

Access	RO
--------	----

Syntax**Unsigned32** (0...4294967295)**rdrFormatterCategoryReportRate (1.3.6.1.4.1.5655.4.1.6.11.1.5)**

The rate of the reports (in reports per second) currently sent to this category.

Access	RO
--------	----

Syntax**Unsigned32** (0...4294967295)**rdrFormatterCategoryReportRatePeak (1.3.6.1.4.1.5655.4.1.6.11.1.6)**

The maximum report rate sent to this category.

Access	RO
--------	----

Syntax**Unsigned32** (0...4294967295)

rdrFormatterCategoryReportRatePeakTime (1.3.6.1.4.1.5655.4.1.6.11.1.7)

The time (in hundredths of a second) since the **rdrFormatterCategoryReportRatePeak** value occurred.

Access	RO
--------	----

Syntax

TimeTicks

rdrFormatterCategoryNumReportsQueued (1.3.6.1.4.1.5655.4.1.6.11.1.8)

The number of pending reports in this category.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

rdrFormatterCategoryDestTable (1.3.6.1.4.1.5655.4.1.6.12)

This table describes the partition of the RDR destinations between the different categories and the priority and status of each destination in each category.

Access	not-accessible
--------	----------------

Syntax

Sequence of rdrFormatterCategoryDestEntry

rdrFormatterCategoryDestEntry (1.3.6.1.4.1.5655.4.1.6.12.1)

A destination table entry.

Access	not-accessible
--------	----------------

Index

{rdrFormatterCategoryIndex, rdrFormatterDestIPAddr, rdrFormatterDestPort}

Syntax

```
SEQUENCE {
  rdrFormatterCategoryDestPriority
  rdrFormatterCategoryDestStatus
}
```

rdrFormatterCategoryDestPriority (1.3.6.1.4.1.5655.4.1.6.12.1.1)

The priority assigned to the Collection Manager for this category.

The active Collection Manager is the Collection Manager with the highest priority and a TCP connection that is up.

Access	RO
--------	----

Syntax

INTEGER (1...100)

rdrFormatterCategoryDestStatus (1.3.6.1.4.1.5655.4.1.6.12.1.2)

Indicates whether the destination is currently active or standby.

In redundancy and in simple Load Balancing **rdrFormatterForwardingMode** there can be only one active destination, which is where the reports are currently being sent. In multicast mode, all destinations will be assigned the active(2) status.

Access	RO
--------	----

Syntax

```
INTEGER {
  1 (other) – none of the following
  2 (active) – this is the destination to which reports are currently being sent
  3 (standby) – this destination is a backup
}
```

loggerUserLogEnable (1.3.6.1.4.1.5655.4.1.7.1)

Indicates whether the logging of user information is enabled or disabled.

Access	RO
--------	----

Syntax

```
INTEGER {
  1 (enabled)
  2 (disabled)
}
```

loggerUserLogNumInfo (1.3.6.1.4.1.5655.4.1.7.2)

The number of Info messages logged into the user log file since last reboot or last time the counter was cleared.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

loggerUserLogNumWarning (1.3.6.1.4.1.5655.4.1.7.3)

The number of **Warning** messages logged into the user log file since last reboot or last time the counter was cleared.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

loggerUserLogNumError (1.3.6.1.4.1.5655.4.1.7.4)

The number of **Error** messages logged into the user log file since last reboot or last time the counter was cleared.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

loggerUserLogNumFatal (1.3.6.1.4.1.5655.4.1.7.5)

The number of **Fatal** messages logged into the user log file since last reboot or last time the counter was cleared.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

loggerUserLogClearCountersTime (1.3.6.1.4.1.5655.4.1.7.6)

The time (in hundredths of a second) since user log counters were last cleared.

Writing a 0 to this object causes the user log counters to be cleared.

Access	RW
--------	----

Syntax

TimeTicks

subscribersInfoTable (1.3.6.1.4.1.5655.4.1.8.1)

Data regarding subscriber management operations performed.

Access	not-accessible
--------	----------------

Syntax

Sequence of subscribersInfoEntry

subscribersInfoEntry (1.3.6.1.4.1.5655.4.1.8.1.1)

Entry describing the subscriber management operations performed on a certain module.

Access	not-accessible
--------	----------------

Index

{pmoduleIndex}

Syntax

```
SEQUENCE {
  subscribersNumIntroduced
  subscribersNumFree
  subscribersNumIpAddrMappings
  subscribersNumIpAddrMappingsFree
  subscribersNumIpRangeMappings
  subscribersNumIpRangeMappingsFree
  subscribersNumVlanMappings
  subscribersNumVlanMappingsFree
  subscribersNumActive
  subscribersNumActivePeak
  subscribersNumActivePeakTime
  subscribersNumUpdates
  subscribersCountersClearTime
  subscribersSubscribersNumTpIpRangeMappings
  subscribersNumTpIpRangeMappingsFreeCountersClearTime
  subscribersNumAnonymous
  subscribersNumWithSessions
}
```

subscribersNumIntroduced (1.3.6.1.4.1.5655.4.1.8.1.1.1)

The current number of subscribers introduced to the SCE. These subscribers may or may not have IP address or VLAN mappings. Subscribers who do not have mappings of any kind cannot be associated with traffic, and will be served by the SCE according to the default settings.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

subscribersNumFree (1.3.6.1.4.1.5655.4.1.8.1.1.2)

The number of subscribers that may be introduced in addition to the currently introduced subscribers.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

subscribersNumIpAddrMappings (1.3.6.1.4.1.5655.4.1.8.1.1.3)

The current number of IP address to subscriber mappings.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

subscribersNumIpAddrMappingsFree (1.3.6.1.4.1.5655.4.1.8.1.1.4)

The number of free IP address to subscriber mappings that are available for defining new mappings.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

subscribersNumIpRangeMappings (1.3.6.1.4.1.5655.4.1.8.1.1.5)

The current number of IP-range to subscriber mappings.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

subscribersNumIpRangeMappingsFree (1.3.6.1.4.1.5655.4.1.8.1.1.6)

The number of free IP range to subscriber mappings that are available for defining new mappings.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

subscribersNumVlanMappings (1.3.6.1.4.1.5655.4.1.8.1.1.7)

The current number of VLAN to subscriber mappings.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

subscribersNumVlanMappingsFree (1.3.6.1.4.1.5655.4.1.8.1.1.8)

The number of free VLAN to subscriber mappings that are available for defining new mappings.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

subscribersNumActive (1.3.6.1.4.1.5655.4.1.8.1.1.9)

The current number of active subscribers. These subscribers necessarily have IP address or VLAN mappings that define the traffic to be served according to the subscriber service agreement.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

subscribersNumActivePeak (1.3.6.1.4.1.5655.4.1.8.1.1.10)

The peak value of **subscribersNumActive** since the last time it was cleared or the system started.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

subscribersNumActivePeakTime (1.3.6.1.4.1.5655.4.1.8.1.1.11)

The time (in hundredths of a second) since the **subscribersNumActivePeak** value occurred.

Access	RO
--------	----

Syntax

TimeTicks

subscribersNumUpdates (1.3.6.1.4.1.5655.4.1.8.1.1.12)

The accumulated number of subscribers database updates received by the SCE platform.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

subscribersCountersClearTime (1.3.6.1.4.1.5655.4.1.8.1.1.13)

The time (in hundredths of a second) since the subscribers counters were cleared.

Writing a 0 to this object causes the counters to be cleared.

Access	RW
--------	----

Syntax

TimeTicks

subscribersNumTplpRangeMappings (1.3.6.1.4.1.5655.4.1.8.1.1.14)

The current number of IP range to Traffic Processor mappings.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

subscribersNumTplpRangeMappingsFree (1.3.6.1.4.1.5655.4.1.8.1.1.15)

The current number of IP range to Traffic Processor mappings that are available for defining new mappings.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

subscribersNumAnonymous (1.3.6.1.4.1.5655.4.1.8.1.1.16)

The current number of anonymous subscribers.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

subscribersNumWithSessions (1.3.6.1.4.1.5655.4.1.8.1.1.17)

The current number of subscribers with open sessions.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

subscribersPropertiesTable (1.3.6.1.4.1.5655.4.1.8.2)

List of all subscriber properties. This table is updated each time an application is loaded on the SCE platform.

Access	not-accessible
--------	----------------

Syntax

Sequence of subscribersPropertiesEntry

subscribersPropertiesEntry (1.3.6.1.4.1.5655.4.1.8.2.1)

Entry describing subscriber properties of the application relevant for a certain module.

Access	not-accessible
--------	----------------

Index

{pmoduleIndex, spIndex}

Syntax

```
SEQUENCE {
  spIndex
  spName
  spType
}
```

spIndex (1.3.6.1.4.1.5655.4.1.8.2.1.1)

An index value that uniquely identifies the subscriber property.

Access	RO
--------	----

Syntax

INTEGER (1..255)

spName (1.3.6.1.4.1.5655.4.1.8.2.1.2)

Name of the subscriber property.

Access	RO
--------	----

Syntax

DisplayString

spType (1.3.6.1.4.1.5655.4.1.8.2.1.3)

Property type in respect to: variable type (integer, boolean, string etc), number of elements (scalar or array), and restrictions, if any.

Access	RO
--------	----

Syntax**DisplayString****subscriberPropertiesValuesTable (1.3.6.1.4.1.5655.4.1.8.3)**

The subscriber properties value table is used to provide values for the subscriber properties for a specific subscriber introduced into the SCE platform.

An entry must be created by setting the entry spvRowStatus object with CreateAndGo (4) before setting the name of the subscriber and the property requested. The property requested must be one of the properties from the subscribersPropertiesTable. To remove an entry set the spvRowStatus object with Destroy (6).

To poll the subscriber property, either of these objects should be polled:

- spvPropertyStringValue
- spvPropertyUnitValue

The table is cleared when the application is unloaded.

Access	not-accessible
--------	----------------

Syntax*Sequence of subscribersPropertiesValueEntry***subscriberPropertiesValueEntry (1.3.6.1.4.1.5655.4.1.8.3.1)**

Entry providing information on the value of one of the specified subscriber properties.

Access	not-accessible
--------	----------------

Index*{pmoduleIndex, spvIndex}***Syntax**

```
SEQUENCE {
  spvIndex
  spvSubName
  spvPropertyName
  spvRowStatus
  spvPropertyStringValue
  spvPropertyUnitValue
  spvPropertyCounter64Value
}
```

spvIndex (1.3.6.1.4.1.5655.4.1.8.3.1.1)

An index value that uniquely identifies the entry.

Access	RO
--------	----

Syntax**INTEGER** (1.. 1024)

spvSubName (1.3.6.1.4.1.5655.4.1.8.3.1.2)

A name that uniquely identifies the subscriber.

Access	RC
--------	----

Syntax

DisplayString (Size 1...40)

spvPropertyName (1.3.6.1.4.1.5655.4.1.8.3.1.3)

A name that uniquely identifies the subscriber property.

Array-type properties may be accessed one element at a time in C-like format. (For example: x[1], or y[1][2])

Access	RC
--------	----

Syntax

DisplayString (Size 1...128)

spvRowStatus (1.3.6.1.4.1.5655.4.1.8.3.1.4)

Controls creation of a table entry. Only setting CreateAndGo (4) and Destroy (6) will change the status of the entry.

Access	RC
--------	----

Syntax

RowStatus

spvPropertyStringValue (1.3.6.1.4.1.5655.4.1.8.3.1.5)

The value of the subscriber property in display string format.

Access	RO
--------	----

Syntax

DisplayString (SIZE 0...128)

spvPropertyUintValue (1.3.6.1.4.1.5655.4.1.8.3.1.6)

The value of the subscriber property in Uint format.

If the property cannot be cast to Uint format, getting this object returns zero.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

spvPropertyCounter64Value (1.3.6.1.4.1.5655.4.1.8.3.1.7)

The value of the subscriber property in Counter64 format.

If the property cannot be cast to Counter64 format, getting this object returns zero.

Access	RO
--------	----

Syntax

Counter64

tpInfoTable (1.3.6.1.4.1.5655.4.1.9.1)

The Traffic Processor Info table consists of data regarding traffic handled by the traffic processors, classified by packets and flows.

Access	not-accessible
--------	----------------

Syntax

Sequence of tpInfoEntry

tpInfoEntry (1.3.6.1.4.1.5655.4.1.9.1.1)

Entry containing information from the traffic processors.

Access	not-accessible
--------	----------------

Index

{tpModuleIndex, tpIndex}

Syntax

```

SEQUENCE {
  tpModuleIndex
  tpIndex
  tpTotalNumHandledPackets
  tpTotalNumHandledFlows
  tpNumActiveFlows
  tpNumActiveFlowsPeak
  tpNumActiveFlowsPeakTime
  tpNumTcpActiveFlows
  tpNumTcpActiveFlowsPeak
  tpNumTcpActiveFlowsPeakTime
  tpNumUdpActiveFlows
  tpNumUdpActiveFlowsPeak
  tpNumUdpActiveFlowsPeakTime
  tpNumNonTcpUdpActiveFlows
  tpNumNonTcpUdpActiveFlowsPeak
  tpNumNonTcpUdpActiveFlowsPeakTime
  tpTotalNumBlockedPackets
  tpTotalNumBlockedFlows
  tpTotalNumDiscardedPacketsDueToBwLimit
  tpTotalNumWredDiscardedPackets
  tpTotalNumFragments
  tpTotalNumNonIpPackets
  tpTotalNumIpCrcErrPackets

```

```

tpTotalNumIpLengthErrPackets
tpTotalNumIpBroadcastPackets
tpTotalNumTtlErrPackets
tpTotalNumTcpUdpCrcErrPackets
tpClearCountersTime
tpHandledPacketsRate
tpHandledPacketsRatePeak
tpHandledPacketsRatePeakTime
tpHandledFlowsRate
tpHandledFlowsRatePeak
tpHandledFlowsRatePeakTime
tpCpuUtilization
tpCpuUtilizationPeak
tpCpuUtilizationPeakTime
tpFlowsCapacityUtilization
tpFlowsCapacityUtilizationPeak
tpFlowsCapacityUtilizationPeakTime
tpServiceLoss
}

```

tpModuleIndex (1.3.6.1.4.1.5655.4.1.9.1.1.1)

An index value (**tpModuleIndex**) that uniquely identifies the module in which this traffic processor is located.

Access	RO
--------	----

Syntax

INTEGER (1...255)

tplIndex (1.3.6.1.4.1.5655.4.1.9.1.1.2)

An index value that uniquely identifies the traffic processor within the specified module. The value is determined by the location of the traffic processor on the module.

Valid entries are 1 to the value of **tpModuleNumTrafficProcessors** for the specified module.

Access	RO
--------	----

Syntax

INTEGER (1...255)

tpTotalNumHandledPackets (1.3.6.1.4.1.5655.4.1.9.1.1.3)

The accumulated number of packets handled by this traffic processor since last reboot or last time this counter was cleared.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

tpTotalNumHandledFlows (1.3.6.1.4.1.5655.4.1.9.1.1.4)

The accumulated number of flows handled by this traffic processor since last reboot or last time this counter was cleared.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

tpNumActiveFlows (1.3.6.1.4.1.5655.4.1.9.1.1.5)

The number of flows currently being handled by this traffic processor.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

tpNumActiveFlowsPeak (1.3.6.1.4.1.5655.4.1.9.1.1.6)

The peak value of **tpNumActiveFlows** since the last time it was cleared or the system started.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

tpNumActiveFlowsPeakTime (1.3.6.1.4.1.5655.4.1.9.1.1.7)

The time (in hundredths of a second) since the **tpNumActiveFlowsPeak** value occurred.

Access	RO
--------	----

Syntax

TimeTicks

tpNumTcpActiveFlows (1.3.6.1.4.1.5655.4.1.9.1.1.8)

The number of TCP flows currently being handled by this traffic processor.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

tpNumTcpActiveFlowsPeak (1.3.6.1.4.1.5655.4.1.9.1.1.9)

The peak value of **tpNumTcpActiveFlows** since the last time it was cleared or the system started.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

tpNumTcpActiveFlowsPeakTime (1.3.6.1.4.1.5655.4.1.9.1.1.10)

The time (in hundredths of a second) since the **tpNumTcpActiveFlowsPeak** value occurred.

Access	RO
--------	----

Syntax

TimeTicks

tpNumUdpActiveFlows (1.3.6.1.4.1.5655.4.1.9.1.1.11)

The number of UDP flows currently being handled by the traffic processor.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

tpNumUdpActiveFlowsPeak (1.3.6.1.4.1.5655.4.1.9.1.1.12)

The peak value of **tpNumUdpActiveFlows** since the last time it was cleared or the system started.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

tpNumUdpActiveFlowsPeakTime (1.3.6.1.4.1.5655.4.1.9.1.1.13)

The time (in hundredths of a second) since the **tpNumUdpActiveFlowsPeak** value occurred.

Access	RO
--------	----

Syntax

TimeTicks

tpNumNonTcpUdpActiveFlows (1.3.6.1.4.1.5655.4.1.9.1.14)

The number of non TCP/UDP flows currently being handled by the traffic processor.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

tpNumNonTcpUdpActiveFlowsPeak (1.3.6.1.4.1.5655.4.1.9.1.15)

The peak value of **tpNumNonTcpUdpActiveFlows** since the last time it was cleared or the system started.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

tpNumNonTcpUdpActiveFlowsPeakTime (1.3.6.1.4.1.5655.4.1.9.1.16)

The time (in hundredths of a second) since the **tpNumNonTcpUdpActiveFlowsPeak** value occurred.

Access	RO
--------	----

Syntax

TimeTicks

tpTotalNumBlockedPackets (1.3.6.1.4.1.5655.4.1.9.1.17)

The accumulated number of packets discarded by the traffic processor according to application blocking rules.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

tpTotalNumBlockedFlows (1.3.6.1.4.1.5655.4.1.9.1.18)

The accumulated number of flows discarded by the traffic processor according to application blocking rules.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

tpTotalNumDiscardedPacketsDueToBwLimit (1.3.6.1.4.1.5655.4.1.9.1.1.19)

The accumulated number of packets discarded by the traffic processor due to subscriber bandwidth limitations.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

tpTotalNumWredDiscardedPackets (1.3.6.1.4.1.5655.4.1.9.1.1.20)

The accumulated number of packets discarded by the traffic processor due to congestion in the queues.

The value in this counter is absolute only when accelerate-packet-drops mode is disabled. When accelerate-packet-drops mode is enabled, it provides only a relative value indicating the trend of the number of packet drops, with a factor of approximately 1:6. (See [Counting the Dropped Packets, page 6-28](#))

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

tpTotalNumFragments (1.3.6.1.4.1.5655.4.1.9.1.1.21)

The accumulated number of fragmented packets handled by the traffic processor.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

tpTotalNumNonIpPackets (1.3.6.1.4.1.5655.4.1.9.1.1.22)

The accumulated number of non IP packets handled by the traffic processor.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

tpTotalNumIpCrcErrPackets (1.3.6.1.4.1.5655.4.1.9.1.1.23)

The accumulated number of packets with IP CRC error handled by the traffic processor.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

tpTotalNumIpLengthErrPackets (1.3.6.1.4.1.5655.4.1.9.1.1.24)

The accumulated number of packets with IP length error handled by the traffic processor.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

tpTotalNumIpBroadcastPackets (1.3.6.1.4.1.5655.4.1.9.1.1.25)

The accumulated number of IP broadcast packets handled by the traffic processor.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

tpTotalNumTtlErrPackets (1.3.6.1.4.1.5655.4.1.9.1.1.26)

The accumulated number of packets with TTL error handled by the traffic processor.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

tpTotalNumTcpUdpCrcErrPackets (1.3.6.1.4.1.5655.4.1.9.1.1.27)

The accumulated number of TCP/UDP packets with CRC error handled by the traffic processor.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

tpClearCountersTime (1.3.6.1.4.1.5655.4.1.9.1.1.28)

The time (in hundredths of a second) since the traffic processor statistics counters were last cleared. Writing a 0 to this object causes the RDR-formatter counters to be cleared.

Access	RW
--------	----

Syntax

TimeTicks

tpHandledPacketsRate (1.3.6.1.4.1.5655.4.1.9.1.1.29)

The rate in packets per second of the packets handled by this traffic processor.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

tpHandledPacketsRatePeak (1.3.6.1.4.1.5655.4.1.9.1.1.30)

The peak value of **tpHandledPacketsRate** since the last time it was cleared or the system started.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

tpHandledPacketsRatePeakTime (1.3.6.1.4.1.5655.4.1.9.1.1.31)

The time (in hundredths of a second) since the **tpHandledPacketsRatePeak** value occurred.

Access	RO
--------	----

Syntax

TimeTicks

tpHandledFlowsRate (1.3.6.1.4.1.5655.4.1.9.1.1.32)

The rate in flows start per second of the flows handled by this traffic processor.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

tpHandledFlowsRatePeak (1.3.6.1.4.1.5655.4.1.9.1.1.33)

The peak value of **tpHandledFlowsRate** since the last time it was cleared or the system started.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

tpHandledFlowsRatePeakTime (1.3.6.1.4.1.5655.4.1.9.1.1.34)

The time (in hundredths of a second) since the **tpHandledFlowsRatePeak** value occurred.

Access	RO
--------	----

Syntax

TimeTicks

tpCpuUtilization (1.3.6.1.4.1.5655.4.1.9.1.1.35)

The current percentage of CPU utilization.

Access	RO
--------	----

Syntax

INTEGER (1..100)

tpCpuUtilizationPeak (1.3.6.1.4.1.5655.4.1.9.1.1.36)

The peak value of **tpCpuUtilization** since the last time it was cleared or the system started.

Access	RO
--------	----

Syntax

INTEGER (1..100)

tpCpuUtilizationPeakTime (1.3.6.1.4.1.5655.4.1.9.1.1.37)

The time (in hundredths of a second) since the **pCpuUtilizationPeak** value occurred.

Access	RO
--------	----

Syntax

TimeTicks

tpFlowsCapacityUtilization (1.3.6.1.4.1.5655.4.1.9.1.1.38)

The percentage of flows capacity utilization.

Access	RO
--------	----

Syntax

INTEGER (1..100)

tpFlowsCapacityUtilizationPeak (1.3.6.1.4.1.5655.4.1.9.1.1.39)

The peak value of tpFlowsCapacityUtilization since the last time it was cleared or the system started.

Access	RO
--------	----

Syntax

INTEGER (1..100)

tpFlowsCapacityUtilizationPeakTime (1.3.6.1.4.1.5655.4.1.9.1.1.40)

The time (in hundredths of a second) since the **tpFlowsCapacityUtilizationPeak** value occurred.

Access	RO
--------	----

Syntax

TimeTicks

tpServiceLoss (1.3.6.1.4.1.5655.4.1.9.1.1.41)

The relative amount of service loss in this traffic processor, in units of 0.001%, per second in the last minute or since the last time this counter was cleared.

Access	RO
--------	----

Syntax

INTEGER (1..100000)

pportTable (1.3.6.1.4.1.5655.4.1.10.1)

A list of port entries.

The number of entries is determined by the number of modules in the chassis and the number of ports on each module.

Access	not-accessible
--------	----------------

Syntax

Sequence of pportEntry

pportEntry (1.3.6.1.4.1.5655.4.1.10.1.1)

Entry containing information for a specified port on a module.

Access	not-accessible
--------	----------------

Index

{pportModuleIndex, pportIndex}

Syntax

```
SEQUENCE {
  pportModuleIndex
  pportIndex
  pportType
  pportNumTxQueues
  pportIfIndex
  pportAdminSpeed
  pportAdminDuplex
  pportOperDuplex
  pportLinkIndex
  pportOperStatus
}
```

pportModuleIndex (1.3.6.1.4.1.5655.4.1.10.1.1.1)

An index value (**pmoduleIndex**) that uniquely identifies the module where the port is located.

Access	RO
--------	----

Syntax

```
INTEGER (1..255)
```

pportIndex (1.3.6.1.4.1.5655.4.1.10.1.1.2)

An index value that uniquely identifies the port within the specified module. The value is determined by the location of the port on the module.

Valid entries are 1 to the value of **pmoduleNumPorts** for this module.

Access	RO
--------	----

Syntax

```
INTEGER (1..255)
```

pportType (1.3.6.1.4.1.5655.4.1.10.1.1.3)

The type of physical layer medium dependent interface on the port.

Access	RO
--------	----

Syntax

```
INTEGER {
  1 (other) – none of the following
  11 (e100BaseTX) – UTP Fast Ethernet (Cat 5)
  28 (e1000BaseSX) – Short Wave fiber Giga Ethernet
}
```

pportNumTxQueues (1.3.6.1.4.1.5655.4.1.10.1.1.4)

The number of transmit queues supported by this port.

Access	RO
--------	----

Syntax**INTEGER** (1..255)**pportIfIndex (1.3.6.1.4.1.5655.4.1.10.1.1.5)**

The value of the instance of the ifIndex object, defined in MIB-II, for this port.

Access	RO
--------	----

Syntax**INTEGER** (1..255)**pportAdminSpeed (1.3.6.1.4.1.5655.4.1.10.1.1.6)**

The desired speed of the port. The current operational speed of the port can be determined from ifSpeed.

Access	RO
--------	----

Syntax

```
INTEGER {
  1 (autoNegotiation) - 10000000
  (s10000000) - 10 Mbps
  100000000 (s100000000) - 100 Mbps
  1000000000 (s1000000000) - 1 Gbps
}
```

pportAdminDuplex (1.3.6.1.4.1.5655.4.1.10.1.1.7)

The desired duplex of the port.

Access	RO
--------	----

Syntax

```
INTEGER {
  1 (half)
  2 (full)
  4 (auto)
}
```

pportOperDuplex (1.3.6.1.4.1.5655.4.1.10.1.1.8)

Indicates whether the port is operating in half-duplex or full-duplex.

Access	RO
--------	----

Syntax

```
INTEGER {
  1 (half)
  2 (full)
}
```

pportLinkIndex (1.3.6.1.4.1.5655.4.1.10.1.1.9)

The **linkIndex** of the link to which this port belongs.

Value of 0 indicates that this port is not associated with any link.

Value of -1 indicates that this port is associated with multiple links.

Access	RO
--------	----

Syntax

INTEGER (-1..255)

pportOperStatus (1.3.6.1.4.1.5655.4.1.10.1.1.10)

The status of the port. If the port is down, the reason is indicated.

Access	RO
--------	----

Syntax

```
INTEGER {
  1 (other) – none of the following
  2 (up) – the port is up
  3 (reflectionForcingDown) – the port is currently forced down due to the link reflection
  mechanism
  4 (redundancyForcingDown) – the port is currently forced down due to redundancy reasons
  5 (otherDown) – the port is down due to other reasons
}
```

txQueuesTable (1.3.6.1.4.1.5655.4.1.11.1)

A list of information for each SCE platform transmit queue.

Access	not-accessible
--------	----------------

Syntax

Sequence of txQueuesEntry

txQueuesEntry (1.3.6.1.4.1.5655.4.1.11.1.1)

Entry containing information for a specified SCE transmit queue.

Access	not-accessible
--------	----------------

Index

{txQueuesModuleIndex, txQueuesPortIndex, txQueuesQueueIndex}

Syntax

```

SEQUENCE {
    txQueuesModuleIndex
    txQueuesPortIndex
    txQueuesQueueIndex
    txQueuesDescription
    txQueuesBandwidth
    txQueuesUtilization
    txQueuesUtilizationPeak
    txQueuesUtilizationPeakTime
    txQueuesClearCountersTime
}

```

txQueuesModuleIndex (1.3.6.1.4.1.5655.4.1.11.1.1.1)

An index value (**pmoduleIndex**) that uniquely identifies the module where the queue is located.

Access	RO
--------	----

Syntax

```

INTEGER (1..255)

```

txQueuesPortIndex (1.3.6.1.4.1.5655.4.1.11.1.1.2)

An index value that uniquely identifies the port on which the queue is located.

Access	RO
--------	----

Syntax

```

INTEGER (1..255)

```

txQueuesQueueIndex (1.3.6.1.4.1.5655.4.1.11.1.1.3)

An index value that uniquely identifies the queue within the specified port. The value is determined by the location of the queue on the port.

Valid entries are 1 to the value of **pportNumTxQueues** for the specified port.

Access	RO
--------	----

Syntax

```

INTEGER (1..255)

```

txQueuesDescription (1.3.6.1.4.1.5655.4.1.11.1.1.4)

Description of the transmit queue.

Access	RO
--------	----

Syntax

```

DisplayString

```

txQueuesBandwidth (1.3.6.1.4.1.5655.4.1.11.1.1.5)

The bandwidth in kbps configured for this queue.

Access	RO
--------	----

Syntax

INTEGER (1...1000000)

txQueuesUtilization (1.3.6.1.4.1.5655.4.1.11.1.1.6)

The percentage of bandwidth utilization relative to the to the configured rate.

Access	RO
--------	----

Syntax

INTEGER (0...100)

txQueuesUtilizationPeak (1.3.6.1.4.1.5655.4.1.11.1.1.7)

The peak value of **txQueuesUtilization** since the last time it was cleared or the system started.

Access	RO
--------	----

Syntax

INTEGER (0...100)

txQueuesUtilizationPeakTime (1.3.6.1.4.1.5655.4.1.11.1.1.8)

The time (in hundredths of a second) since the **txQueuesUtilizationPeak** value occurred.

Access	RO
--------	----

Syntax

TimeTicks

txQueuesClearCountersTime (1.3.6.1.4.1.5655.4.1.11.1.1.9)

The time (in hundredths of a second) since the transmit queues statistics counters were last cleared.

Writing a 0 to this object causes the transmit queues counters to be cleared.

Access	RW
--------	----

Syntax

TimeTicks

txQueuesDroppedBytes (1.3.6.1.4.1.5655.4.1.11.1.1.10)

Number of dropped bytes. Valid only if the system is configured to count dropped bytes per TX queue.

Access	RO
--------	----

Syntax

Counter64

globalControllersTable (1.3.6.1.4.1.5655.4.1.12.1)

A list of information for each global controller.

Access	not-accessible
--------	----------------

Syntax

Sequence of globalControllersEntry

globalControllersEntry (1.3.6.1.4.1.5655.4.1.12.1.1)

Entry containing information for a specified global controller.

Access	not-accessible
--------	----------------

Index

{globalControllersModuleIndex, globalControllersPortIndex, globalControllersIndex}

Syntax

```
SEQUENCE {
  globalControllersModuleIndex
  globalControllersPortIndex
  globalControllersIndex
  globalControllersDescription
  globalControllersBandwidth
  globalControllersUtilization
  globalControllersUtilizationPeak
  globalControllersUtilizationPeakTime
  globalControllersClearCountersTime
  globalControllersDroppedBytes
}
```

globalControllersModuleIndex (1.3.6.1.4.1.5655.4.1.12.1.1.1)

An index value (**pmoduleIndex**) that uniquely identifies the module where the Global Controller is located.

Access	RO
--------	----

Syntax

INTEGER (1..255)

globalControllersPortIndex (1.3.6.1.4.1.5655.4.1.12.1.1.2)

An index value that uniquely identifies the port on which the Global Controller is located.

Access	RO
--------	----

Syntax

INTEGER (1..255)

globalControllersIndex (1.3.6.1.4.1.5655.4.1.12.1.1.3)

An index value that uniquely identifies this Global Controller within the specified port.

Access	RO
--------	----

Syntax

INTEGER (1..255)

globalControllersDescription (1.3.6.1.4.1.5655.4.1.12.1.1.4)

Description of the Global Controller.

Access	RO
--------	----

Syntax

DisplayString

globalControllersBandwidth (1.3.6.1.4.1.5655.4.1.12.1.1.5)

The bandwidth in kbps configured for this Global Controller.

Access	RO
--------	----

Syntax

INTEGER (1..1000000)

globalControllersUtilization (1.3.6.1.4.1.5655.4.1.12.1.1.6)

The percentage of bandwidth utilization relative to the configured rate (**globalControllersBandwidth**).

Access	RO
--------	----

Syntax

INTEGER (0..100)

globalControllersUtilizationPeak (1.3.6.1.4.1.5655.4.1.12.1.1.7)

The peak value of **bwLimitersUtilization** since the last time it was cleared or the system started.

Access	RO
--------	----

Syntax

INTEGER (0...100)

globalControllersUtilizationPeakTime (1.3.6.1.4.1.5655.4.1.12.1.1.8)

The time (in hundredths of a second) since the **globalControllersUtilizationPeak** value occurred.

Access	RO
--------	----

Syntax

TimeTicks

globalControllersClearCountersTime (1.3.6.1.4.1.5655.4.1.12.1.1.9)

The time (in hundredths of a second) since the Global Controller statistics counters were last cleared.

Writing a 0 to this object causes the Global Controller counters to be cleared.

Access	RW
--------	----

Syntax

TimeTicks

globalControllersDroppedBytes (1.3.6.1.4.1.5655.4.1.12.1.1.10)

Number of dropped bytes. Valid only if the system is configured to count dropped bytes per global controller.

Access	RO
--------	----

Syntax

Counter64

appInfoTable (1.3.6.1.4.1.5655.4.1.13.1)

Information identifying the application that is currently installed in the SCE platform.

Access	not-accessible
--------	----------------

Syntax

Sequence of appInfoEntry

appInfoEntry (1.3.6.1.4.1.5655.4.1.13.1.1)

Entry containing identifying information for the application that is currently installed in the SCE platform.

Access	not-accessible
--------	----------------

Index

{moduleIndex}

Syntax

```
SEQUENCE {
  appName
  appDescription
  appVersion
}
```

appName (1.3.6.1.4.1.5655.4.1.13.1.1.1)

Name of the application currently installed in the SCE platform. This object returns an empty string if no application is currently installed.

Access	RO
--------	----

Syntax

DisplayString

appDescription (1.3.6.1.4.1.5655.4.1.13.1.1.2)

Description of the application currently installed in the SCE platform.

Access	RO
--------	----

Syntax

DisplayString

appVersion (1.3.6.1.4.1.5655.4.1.13.1.1.3)

Version information for the application currently installed in the SCE platform.

Access	RO
--------	----

Syntax

DisplayString

appPropertiesTable (1.3.6.1.4.1.5655.4.1.13.2)

List of all properties available for the application. The table is cleared when the application is unloaded.

Access	not-accessible
--------	----------------

Syntax*Sequence of appPropertiesEntry***appPropertiesEntry (1.3.6.1.4.1.5655.4.1.13.2.1)**

Entry describing one of the properties available for the application.

Access	not-accessible
--------	----------------

Index*{moduleIndex, apIndex}***Syntax**

```
SEQUENCE {
  apIndex
  apName
  apType
}
```

apIndex (1.3.6.1.4.1.5655.4.1.13.2.1.1)

An index value that uniquely identifies the property.

Access	RO
--------	----

Syntax**INTEGER** (1..255)**apName (1.3.6.1.4.1.5655.4.1.13.2.1.2)**

Name of the property.

Access	RO
--------	----

Syntax**DisplayString****apType (1.3.6.1.4.1.5655.4.1.13.2.1.3)**

Property type in respect to: variable type (integer, boolean, string etc), number of elements (scalar or array), and restrictions, if any.

Access	RO
--------	----

Syntax**DisplayString**

appPropertiesValuesTable (1.3.6.1.4.1.5655.4.1.13.3)

The applications properties value table is used to provide specific values for the applications properties.

An entry must be created by setting the entry `apvRowStatus` object with `CreateAndGo` (4) before setting the name of the property requested. The property requested must be one of the properties from the `appPropertiesTable`. To remove an entry set the `apvRowStatus` object with `Destroy` (6).

To poll the application property, any of these objects should be polled:

- `apvPropertyValue`
- `apvPropertyUnitValue`
- `apvPropertyCounter64` object.

The table is cleared when the application is unloaded.

Access	not-accessible
--------	----------------

Syntax

Sequence of appPropertiesValueEntry

appPropertiesValueEntry (1.3.6.1.4.1.5655.4.1.13.3.1)

Entry providing information on the value of one of the specified application properties.

Access	not-accessible
--------	----------------

Index

{moduleIndex, apvIndex}

Syntax

```
SEQUENCE {
  apvIndex
  apvPropertyName
  apvRowStatus
  apvPropertyStringValue
  apvPropertyUintValue
  apvPropertyCounter64Value
}
```

apvIndex (1.3.6.1.4.1.5655.4.1.13.3.1.1)

An index value that uniquely identifies the property.

Access	RO
--------	----

Syntax

INTEGER (1.. 1024)

apvPropertyName (1.3.6.1.4.1.5655.4.1.13.3.1.2)

A name that uniquely identifies the application property.

Array-type properties may be accessed one element at a time in C-like format. (For example: x[1], or y[1][2])

Access	RC
--------	----

Syntax

DisplayString

apvRowStatus (1.3.6.1.4.1.5655.4.1.13.3.1.3)

Controls creation of a table entry.

Access	RC
--------	----

Syntax

RowStatus

apvPropertyStringValue (1.3.6.1.4.1.5655.4.1.13.3.1.4)

The value of the application property in display string format.

Access	RO
--------	----

Syntax

DisplayString (*SIZE 0...128*)

apvPropertyUintValue (1.3.6.1.4.1.5655.4.1.13.3.1.5)

The value of the application property in Uint format.

If the property cannot be cast to Uint format, getting this object returns zero.

Access	RO
--------	----

Syntax

Unsigned32 (*0...4294967295*)

apvPropertyCounter64Value (1.3.6.1.4.1.5655.4.1.13.3.1.6)

The value of the application property in Counter64 format.

If the property cannot be cast to Counter64 format, getting this object returns zero.

Access	RO
--------	----

Syntax

Counter64

trafficCountersTable (1.3.6.1.4.1.5655.4.1.14.1)

A list of information for each traffic counter.

Access	not-accessible
--------	----------------

Syntax

Sequence of trafficCountersEntry

trafficCountersEntry (1.3.6.1.4.1.5655.4.1.14.1.1)

Entry containing information for a specified traffic counter.

Access	not-accessible
--------	----------------

Index

{trafficCounterIndex}

Syntax

```
SEQUENCE {
  trafficCounterIndex
  trafficCounterValue
  trafficCounterName
  trafficCounterType
}
```

trafficCounterIndex (1.3.6.1.4.1.5655.4.1.14.1.1.1)

An index value that uniquely identifies the counter.

Access	RO
--------	----

Syntax

INTEGER (1..255)

trafficCounterValue (1.3.6.1.4.1.5655.4.1.14.1.1.2)

The 64 bit counter value.

Access	RO
--------	----

Syntax

Counter64

trafficCounterName (1.3.6.1.4.1.5655.4.1.14.1.1.3)

The name of the counter.

Access	RO
--------	----

Syntax`DisplayString`**trafficCounterType (1.3.6.1.4.1.5655.4.1.14.1.1.4)**

Defines whether the traffic counters counts by packets (3) or by bytes (2).

Access	RO
--------	----

Syntax

```

INTEGER {
  1 (other) – none of the following
  2 (bytes) – counts by bytes
  3 (packets) – counts by packets
}

```

attackTypeTable (1.3.6.1.4.1.5655.4.1.15.1)

A list of information for defined attack types.

Access	not-accessible
--------	----------------

Syntax*Sequence of AttackTypeEntry***attackTypeEntry (1.3.6.1.4.1.5655.4.1.15.1.1)**

Entry containing information for a specified attack type.

Access	not-accessible
--------	----------------

Index*{pmoduleIndex, attackTypeIndex}***Syntax**

```

SEQUENCE {
  attackTypeIndex
  attackTypeName
  attackTypeCurrentNumAttacks
  attackTypeTotalNumAttacks
  attackTypeTotalNumFlows
  attackTypeTotalNumSeconds
}

```

attackTypeIndex (1.3.6.1.4.1.5655.4.1.15.1.1.1)

An index value that uniquely identifies the attack type.

Access	RO
--------	----

Syntax**INTEGER** (1..255)

attackTypeName (1.3.6.1.4.1.5655.4.1.15.1.1.2)

The name of the attack type.

Access	RO
--------	----

Syntax

DisplayString

attackTypeCurrentNumAttacks (1.3.6.1.4.1.5655.4.1.15.1.1.3)

The number of attacks currently detected of this type.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

attackTypeTotalNumAttacks (1.3.6.1.4.1.5655.4.1.15.1.1.4)

The total number of attacks of this type detected since last clear.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

attackTypeTotalNumFlows (1.3.6.1.4.1.5655.4.1.15.1.1.5)

The total number of flows in attacks of this type detected since last clear.

Access	RO
--------	----

Syntax

Counter64

attackTypeTotalNumSeconds (1.3.6.1.4.1.5655.4.1.15.1.1.6)

The total duration (in seconds) of attacks of this type detected since last clear.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

vasServersTable (1.3.6.1.4.1.5655.4.1.16.1)

A list of information for the VAS servers.

Access	not-accessible
--------	----------------

Syntax

Sequence of VasServerEntry

vasServerEntry (1.3.6.1.4.1.5655.4.1.16.1.1)

Entry containing information for a specified VAS server.

Access	not-accessible
--------	----------------

Index

{vasServerIndex}

Syntax

```
SEQUENCE {
  vasServerIndex
  vasServerId
  vasServerAdminStatus
  vasServerOperStatus
}
```

vasServerIndex (1.3.6.1.4.1.5655.4.1.16.1.1.1)

An index value that uniquely identifies the VAS server.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

vasServerId (1.3.6.1.4.1.5655.4.1.16.1.1.2)

The VAS server ID number in the system.

Access	RO
--------	----

Syntax

Unsigned32 (0...4294967295)

vasServerAdminStatus (1.3.6.1.4.1.5655.4.1.16.1.1.3)

The administrative status of the VAS server.

Access	RO
--------	----

Syntax

INTEGER {1 (other) 2 (up) 3 (down) }

vasServerOperStatus (1.3.6.1.4.1.5655.4.1.16.1.1.4)

The operational status of the VAS server.

Access	RO
--------	----

Syntax

INTEGER {1 (other) 2 (up) 3 (down) }

mplsVpnSoftwareCountersTable (1.3.6.1.4.1.5655.4.1.17.1)

A list of information on various system software counters related to MPLS/VPN auto-learning.

Access	not-accessible
--------	----------------

Syntax

Sequence of mplsVpnSoftwareCountersEntry

mplsVpnSoftwareCountersEntry (1.3.6.1.4.1.5655.4.1.17.1.1)

Entry containing information regarding MPLS/VPN auto-learning.

Access	not-accessible
--------	----------------

Syntax

SEQUENCE {mplsVpnMaxHWMappings mplsVpnCurrentHWMappings }

mplsVpnMaxHWMappings (1.3.6.1.4.1.5655.4.1.17.1.1.1)

The maximum number of hardware mappings permitted.

Access	RO
--------	----

Syntax

INTEGER (1..1000000)

mplsVpnCurrentHWMappings (1.3.6.1.4.1.5655.4.1.17.1.1.2)

The current number of hardware mappings in the system.

Access	RO
--------	----

Syntax

INTEGER (1..1000000)

Supported Standards

The SCE platform supports the SNMP related standards listed in the following table.

Table B-2 **Supported SNMP Standards**

Document Name	Description
RFC 1155: Structure and Identification of Management Information for TCP/IP-based Internets	K. McCloghrie and M. T. Rose, (May 1990). Contains MIB object definitions. (Obsoletes RFC 1065)
RFC 1157: A Simple Network Management Protocol	J. D. Case, M. Fedor, M. L. Schoffstall, and C. Davin, (May 1990). Defines SNMP. (Obsoletes RFC 1098)
RFC 1212: Concise MIB Definitions	K. McCloghrie (March 1991). Defines a format for producing MIB modules
RFC 1213: Management Information Base Network Management of TCP/IP based internets: MIB-II	K. McCloghrie and M. T. Rose, eds., (March 1991). Defines MIB-II. (Obsoletes RFC 1158)
RFC 1215: Convention for Defining Traps for Use with the SNMP	M. T. Rose, ed. (March 1991).
RFC 1901: Introduction to Community-based SNMPv2	SNMPv2 WG, J. Case, K. McCloghrie, M. T. Rose, S. Waldbusser, (January 1996). Defines “Community-based SNMPv2.” (Experimental. Obsoletes RFC 1441)
RFC 1905: Protocol Operations for Version 2 of the Simple Network Management Protocol (SNMPv2)	Obsoletes: 1448 (January 1996)
RFC 1906: Transport Mappings for Version 2 of the Simple Network Management Protocol (SNMPv2)	Obsoletes: 1449 (January 1996)
RFC 2233: The Interfaces Group MIB using SMIV2. Obsoleted by RFC-2863: The Interfaces Group MIB	Extensions for the ifTable.

