



TippingPoint™

TippingPoint Threat Protection System MIBs Guide

Version 5.0.0

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About this guide

This guide describes the management information base (MIB) database that enables you to manage devices in a communications network. Use this information with a TippingPoint Threat Protection System (TPS) or a TippingPoint Virtual Threat Protection System (vTPS) deployed in IPS mode. Objects that are applicable to a particular TPS device are noted. For example, SSL inspection objects are only applicable to the 2200T TPS.

This section covers the following topics:

- *Target audience* on page 1
- *Related documentation* on page 1
- *Conventions* on page 1
- *Product support* on page 3
- *New and changed information in this edition* on page 3

Target audience

The intended audience includes technicians and maintenance personnel responsible for installing, configuring, and maintaining TippingPoint security systems and associated devices.

Users should be familiar with the following concepts:

- Basic networking
- Simple Network Management Protocol (SNMP)
- Network security
- Routing

Related documentation

A complete set of documentation for your product is available on the TippingPoint Threat Management Center (TMC) at <https://tmc.tippingpoint.com>. The documentation generally includes installation and user guides, command line interface (CLI) references, safety and compliance information, and release notes.

Conventions

This information uses the following conventions.

Typefaces

The following typographic conventions for structuring information are used.

Convention	Element
Bold font	• Key names • Text typed into a GUI element, such as into a box • GUI elements that are clicked or selected, such as menu and list items, buttons, and check boxes. Example: Click OK to accept.
<i>Italics font</i>	Text emphasis, important terms, variables, and publication titles
Monospace font	• File and directory names • System output • Code • Text typed at the command-line
<i>Monospace, italic font</i>	• Code variables • Command-line variables
Monospace, bold font	Emphasis of file and directory names, system output, code, and text typed at the command line

Messages

Messages are special text that is emphasized by font, format, and icons.

 **Warning!** Alerts you to potential danger of bodily harm or other potential harmful consequences.

 **Caution:** Provides information to help minimize risk, for example, when a failure to follow directions could result in damage to equipment or loss of data.

Note: Provides additional information to explain a concept or complete a task.

Important: Provides significant information or specific instructions.

Tip: Provides helpful hints and shortcuts, such as suggestions about how to perform a task more easily or more efficiently.

Product support

Information for you to contact product support is available on the TMC at <https://tmc.tippingpoint.com>.

New and changed information in this edition

The following additions and changes have been made for this edition:

Version	Description
5.0.0	- TPS support for the TPT-BAY, TPT-SFLOW, and TPT-TSE MIBs has been added. - The rate-limiter objects have been added for the TPT-TRAFFIC MIBs. - The TPT-NPSTATS-MIB now provides the same information as the IPS, including the segment port stats objects used for stacking.
4.2.0	Enhancements Enhancements to SNMP include new trap messages and new MIB objects for the TPS. As part of the installation process, download and install the latest MIB files for the TPS. You can download a .zip file containing the complete MIB files from the TMC at https://tmc.tippingpoint.com. The SNMP enhancements are not applicable to the TippingPoint Virtual Threat Protection System (vTPS). - The following SNMP trap messages have been added: - tptCongestionThresholdNotify - tptIhaNotify - tptPerfProtTrap - tptTier3CongestionThresholdNotify - tptTrhaNotify - tptZphaNotify - The TPT-HIGH-AVAIL-MIB has implemented the following objects: - highAvailEnabled - highAvailFaultCause

Version	Description
	◦ highAvailFaultState ◦ highAvailThresholdEnabled ◦ highAvailThresholdPercent ◦ highAvailTimeStamp ◦ highAvailTransparentEnabled ◦ highAvailTransparentPartner ◦ highAvailTransparentState ◦ highAvailZeroPowerPresence ◦ highAvailZeroPowerQuantity ◦ highAvailZeroPowerState ◦ highAvailZeroPowerTable • The TPT-PORT-CONFIG-MIB for the TPS now provides the same information in the portConfigTable as the IPS. • The TPT-NPSTATS-MIB provides new information in the following tables: ◦ npstatsRulesTable now provides the same information as the IPS. Also, when traffic is flowing, this table and the CLI both show the first 20 filters. ◦ npstatsTiersTable now provides the same information as the IPS. ◦ npstatsTiersExtra now provides the same information as the IPS with some exceptions. The following values are always set to zero: ◦ npstatsTier1BypassMbps ◦ npstatsTier1Balance ◦ npstatsTier1MaxPktsPerSecB ◦ npstatsTier1MaxPktsPerSecC ◦ npstatsTier1PatternMatchToRxPktsPerSecRatio ◦ npstatsTier1MaxPatternMatchToRxPktsPerSecRatio ◦ npstatsMisc now provides the same information as the IPS with one exception. The npstatsMiscTxPktsBestEffort OID is not supported on the TPS. Renamed MIB files

Version	Description
	The following MIB files have been updated and renamed to append -MIB to the file name (for example, TPT-COMPACT-FLASH is now TPT-COMPACT-FLASH-MIB). Be sure to update your SNMP manager to load the new MIB files and unload the old MIB files: • TPT-COMPACT-FLASH-MIB • TPT-HEALTH-MIB • TPT-HIGH-AVAIL-MIB • TPT-MISC-NOTIFY-MIB • TPT-NPSTATS-MIB • TPT-POLICY-MIB • TPT-RESOURCE-MIB • TPT-TPA-HARDWARE-MIB • TPT-TPAMIBS

MIB files for the Threat Protection System

A management information base (MIB) is a type of database that enables you to manage devices in a communications network. Database entries are addressed through object identifiers (OIDs). MIB files are descriptions of network objects that can be managed using the Simple Network Management Protocol (SNMP). The format of the MIB is defined as part of the SNMP.

This information includes the following topics:

- [Standard SNMP MIBs supported](#) on page 6
- [IPS-supported MIBs](#) on page 9

Standard SNMP MIBs supported

This topic contains the following information:

- [SNMPv2-MIB](#) on page 6
- [IF-MIB](#) on page 7
- [EtherLike-MIB](#) on page 7
- [IP-MIB](#) on page 8
- [SNMP-USER-BASED-SM-MIB](#) on page 8
- [SNMP-VIEW-BASED-ACM-MIB](#) on page 9
- [Reference sites for standard MIBs](#) on page 9

SNMPv2-MIB

Defines common information typically provided by managed systems. The Threat Protection System (TPS) supports the following items.

Name	Type	Description
System	Group	A collection of objects common to all managed systems. This includes information such as model, contact and location, up time, services, and system ID.
SNMP	Group	A collection of objects providing information on SNMP protocol stats, such as the number of packets received and transmitted.

Name	Type	Description
coldStart	Notification	Signifies that the TPS device is reinitializing itself, typically a reboot.

IF-MIB

Contains objects for managing and monitoring network interfaces. Only physical interfaces have stats in the following tables. Logical interfaces, such as VLAN and Bridge, are listed, but stats are always 0.

Name	Type	Description
ifTable	Table	List of information and stats for each interface of a system. The number of entries is given by the value of ifNumber.
ifXTable	Table	List of interface entries. The number of entries is given by the value of ifNumber. This table contains additional objects for the interface table.
linkUp	Notification	A linkUp notification signifies that a communication link has left the down state and is now in the up state.
linkDown	Notification	A linkDown notification signifies that a communication link has left the up state and is now in the down state.

EtherLike-MIB

Provides information representing attributes of an interface to an Ethernet-like communications medium.

Name	Type	Description
dot3StatsTable	Table	Contains statistics for a collection of ethernet-like interfaces attached to a particular system.

Name	Type	Description
dot3HCStatsTable	Table	Contains 64-bit versions of error counters from the dot3StatsTable.

IP-MIB

Name	Type	Description
IP	Group	A collection of object stats that include such information as IP datagrams received or transmitted.
ipv4InterfaceTable	Table	Contains per-interface IPv4-specific information.
ipv6InterfaceTable	Table	Contains per-interface IPv6-specific information.
IpSystemStatsTable	Table	Contains system-wide, IP version-specific traffic statistics.
IpAddressTable	Table	Contains addressing information relevant to the entity's interfaces.
ipNetToPhysicalTable	Table	Contains the IP Address Translation table used for mapping from IP addresses to physical addresses.

SNMP-USER-BASED-SM-MIB

Defines the SNMPv3 user-based Security Model (USM). The Threat Protection System (TPS) supports the following groups.

Name	Type	Description
usmStats	Group	A collection of scalar objects that provide information such as, then number of unknown user names, engine IDs, or unsupported security levels.

SNMP-VIEW-BASED-ACM-MIB

This MIB defines the SNMPv3 View-based Access Control Model (VACM) for use in the Simple Network Management Protocol (SNMP) architecture. The Threat Protection System (TPS) support the following tables.

Name	Type	Description
vacmContextTable	Table	Locally available security contexts
vacmSecurityToGroupTable	Table	Maps a security contexts with groups
vacmAccessTable	Table	Access rights for groups
vacmViewTreeFamilyTable	Table	Locally held information about families of sub-trees within MIB views

Reference sites for standard MIBs

- IETF: <http://www.ietf.org> — where all the standard RFCs are kept for MIBs
- <http://www.mibdepot.com> — a well maintained site with standard and company specific MIBs

IPS-supported MIBs

The Threat Protection System (TPS) supports these MIBs fully except where noted. These are non-standard MIBs with TPT-specific definitions for TippingPoint products only.

TIPPINGPOINT-REG-MIB

Note: This MIB file must be loaded before you load any other TippingPoint MIB files.

Defines the object identifier (OID) sub-tree assigned to TippingPoint by the Internet Assigned Numbers Agency (IANA), as well as sub-trees for registered modules, object and event definitions, agent profiles, management application requirements, and experimental definitions.

The following table describes TIPPINGPOINT-REG-MIB sub-trees:

Object	OID	Description
tpt-reg	1.3.6.1.4.1.10734.1	Sub-tree for the registered modules
tpt-generic (not supported)	1.3.6.1.4.1.10734.2	Sub-tree for common object and event definitions
tpt-products	1.3.6.1.4.1.10734.3	Sub-tree for specific object and event definitions
tpt-caps (not supported)	1.3.6.1.4.1.10734.4	Sub-tree for agent profiles
tpt-reqs (not supported)	1.3.6.1.4.1.10734.5	Sub-tree for management application requirements
tpt-expr (not supported)	1.3.6.1.4.1.10734.6	Sub-tree for experimental definitions

TPT-BAY

Used to define the status and configuration of the module slots on NX Series and TX Series devices.

Object	OID	Description
tpt-slot-objs	1.3.6.1.4.1.10734.3.3.2.17	Slot information.
slotTempTable	1.3.6.1.4.1.10734.3.3.2.17.1	A list of the slots on the device.
slotTempEntry	1.3.6.1.4.1.10734.3.3.2.17.1.1	An entry in the slot table. Rows cannot be added or deleted.
slotTempIndex	1.3.6.1.4.1.10734.3.3.2.17.1.1.1	The index number of the slot.
slotName	1.3.6.1.4.1.10734.3.3.2.17.1.1.2	The name of the slot.

Object	OID	Description
slotModuleName	1.3.6.1.4.1.10734.3.3.2.17.1.1.3	String description of the type of module in the slot.
slotStatus	1.3.6.1.4.1.10734.3.3.2.17.1.1.4	The slot status. • 0: Empty; no module is currently installed. • 1: Active; a module is present in the slot and active. • 2: Error. The module might have failed to initialize, or the configured module type might not match the module currently inserted in the slot.
slotModuleSerialNum	1.3.6.1.4.1.10734.3.3.2.17.1.1.5	The serial number of the module currently installed in the slot.
slotModuleType	1.3.6.1.4.1.10734.3.3.2.17.1.1.6	The module type currently installed in the slot. • type-12-port-1g-copper(1) • type-12-port-1g-sfp(2) • type-8-port-10g-sfp(3) • type-2-port-40g-qsfp(4) • type-6100(5) • type-5100(6) • type-2500(7) • type-1400(8) • type-660(9) • type-330(10) • type-110(11) • type-10(12)

Object	OID	Description
		• type-empty(13) • type-8-port-1g-copper-bypass(14) • type-4-port-1g-sfp-sr-bypass(15) • type-4-port-1g-sfp-lr-bypass(16) • type-4-port-10g-sfp-sr-bypass(17) • type-4-port-10g-sfp-lr-bypass(18) • type2Port40gQsfpBypass(19) • type440T(20) • type2200T(21) • typeVSA(22)
tptSlotDeviceID	1.3.6.1.4.1.10734.3.3.3.1.281	The unique identifier of the device that is sending the notification.
tptSlotID	1.3.6.1.4.1.10734.3.3.3.1.282	The index number of the slot that is sending the notification.
tptSlotEvent	1.3.6.1.4.1.10734.3.3.3.1.283	The status of the slot. • 0: A module has been inserted. • 1: A module has been removed.

Object	OID	Description
		2: Error. The module might have failed to initialize, or the configured module type might not match the module currently inserted in the slot.
tptSlotChangeNotify	1.3.6.1.4.1.10734.3.3.3.0.54	A notification of activity on the slot.

TPT-COMPACT-FLASH-MIB

The Threat Protection System (TPS) provides no notification support for this MIB. Defines the status and operating mode of the external storage card.

The following table describes compact flash data objects:

Object	OID	Description
tpt-compact-flash	1.3.6.1.4.1.10734.3.3.2.14	Sub-tree for all external storage card information.
compactFlashPresent	1.3.6.1.4.1.10734.3.3.2.14.1	Indicates card presence. 0: present 1: absent
compactFlashMounted	1.3.6.1.4.1.10734.3.3.2.14.2	Indicates card mount status. 0: mounted 1: unmounted
compactFlashFormatted	1.3.6.1.4.1.10734.3.3.2.14.3	Indicates card format status. 0: formatted 1: unformatted

Object	OID	Description
compactFlashOperationMode	1.3.6.1.4.1.10734.3.3.2.14.4	Indicates card operation mode. 0: secure mode—requires authentication 1: auto-mount enabled— cards are automatically mounted when inserted
vendorInformation	1.3.6.1.4.1.10734.3.3.2.14.5	Sub-tree of external storage card informational details.
serialNumber	1.3.6.1.4.1.10734.3.3.2.14.5.1	Card serial number.
model	1.3.6.1.4.1.10734.3.3.2.14.5.2	Card model name.
capacity	1.3.6.1.4.1.10734.3.3.2.14.5.3	Card capacity.
revision	1.3.6.1.4.1.10734.3.3.2.14.5.4	Card firmware revision.

TPT-HEALTH-MIB

Indicates the health status of the IPS. Features monitored temperatures, fan speeds, and voltage levels. The Threat Protection System (TPS) provides no health2CTable support.

Temperature

The Temperature objects monitor the device temperature. Alarms are generated when the temperature at a sensor passes a specified threshold.

The following table describes temperature objects:

Object	OID	Description
healthTempTable	1.3.6.1.4.1.10734.3.3.2.13.1	Lists the readings at the device temperature sensors

Object	OID	Description
healthTempEntry	1.3.6.1.4.1.10734.3.3.2.13.1.1	Entry in the temperature table. Rows are predefined and cannot be created or deleted.
healthTempIndex	1.3.6.1.4.1.10734.3.3.2.13.1.1.1	Index number of the entry
healthTempChannel	1.3.6.1.4.1.10734.3.3.2.13.1.1.2	Location of the temperature sensor.
healthTempValue	1.3.6.1.4.1.10734.3.3.2.13.1.1.3	Temperature in degrees centigrade
healthTempSeverity	1.3.6.1.4.1.10734.3.3.2.13.1.1.4	Can be one of the following values: • 0: normal • 1: informational note • 2: minor • 3: major • 4: critical
healthTempThresholdType	1.3.6.1.4.1.10734.3.3.2.13.1.1.5	Determines the application of thresholds: • 1: minimum; value should not go below threshold • 2: range; value should remain with a designated range • 3: maximum; value should not go above threshold
healthTempMajor	1.3.6.1.4.1.10734.3.3.2.13.1.1.6	Major threshold temperature in degrees centigrade
healthTempCritical	1.3.6.1.4.1.10734.3.3.2.13.1.1.7	Critical threshold temperature in degrees centigrade

Fans

The fan objects monitor the fan performance and health.

The following table describes fan objects:

Object	OID	Description
healthFanTable	1.3.6.1.4.1.10734.3.3.2.13.2	Lists all fans inside the device
healthFanEntry	1.3.6.1.4.1.10734.3.3.2.13.2.1	Entry in the fans table. Rows are predefined and cannot be created or deleted.
healthFanIndex	1.3.6.1.4.1.10734.3.3.2.13.2.1.1	Index number of the entry
healthFanChannel	1.3.6.1.4.1.10734.3.3.2.13.2.1.2	String identifying the fan
healthFanValue	1.3.6.1.4.1.10734.3.3.2.13.2.1.3	Speed of the fan in RPM
healthFanSeverity	1.3.6.1.4.1.10734.3.3.2.13.2.1.4	Can be one of the following values: • 0: normal • 1: informational note • 2: minor • 3: major • 4: critical
healthFanThresholdType	1.3.6.1.4.1.10734.3.3.2.13.2.1.5	Determines the application of thresholds: • 1: minimum; value should not go below threshold • 2: range; value should remain with a designated range

Object	OID	Description
		3: maximum; value should not go above threshold
healthFanMajor	1.3.6.1.4.1.10734.3.3.2.13.2.1.6	Major threshold speed in RPM
healthFanMinor	1.3.6.1.4.1.10734.3.3.2.13.2.1.7	Critical threshold speed in RPM

Voltage

The voltage objects monitor the voltage levels at various locations within the device.

The following table describes voltage objects:

Object	OID	Description
healthVoltageTable	1.3.6.1.4.1.10734.3.3.2.13.3	List of all voltages at various locations inside the device
healthVoltageEntry	1.3.6.1.4.1.10734.3.3.2.13.3.1	An entry in the voltage table. Rows are predefined and cannot be created or deleted.
healthVoltageIndex	1.3.6.1.4.1.10734.3.3.2.13.3.1.1	Index number of the entry
healthVoltageChannel	1.3.6.1.4.1.10734.3.3.2.13.3.1.2	Location of the voltage sensor
healthVoltageValue	1.3.6.1.4.1.10734.3.3.2.13.3.1.3	Voltage reading in millivolts
healthVoltageSeverity	1.3.6.1.4.1.10734.3.3.2.13.3.1.4	Can be one of the following values: 0: normal 1: informational note 2: minor 3: major

Object	OID	Description
		4: critical
healthVoltageThresholdType	1.3.6.1.4.1.10734.3.3.2.13.3.1.5	Determines the application of thresholds: 1: minimum; value should not go below threshold 2: range; value should remain with a designated range 3: maximum; value should not go above threshold
healthVoltageMajor	1.3.6.1.4.1.10734.3.3.2.13.3.1.6	Major threshold delta above or below the nominal voltage value, in millivolts
healthVoltageMinor	1.3.6.1.4.1.10734.3.3.2.13.3.1.7	Critical threshold delta above or below the nominal voltage value, in millivolts
healthVoltageNominal	1.3.6.1.4.1.10734.3.3.2.13.3.1.8	Optimal voltage value at this sensor location

TPT-HIGH-AVAIL-MIB

Defines the conditions and actions for Intrinsic Network HA, Transparent Network HA, and Zero-Power HA, and also offers information about the current fault state of the device.

Object	OID	Description
highAvailTimeStamp	1.3.6.1.4.1.10734.3.3.2.6.1	The last transition of the fault state in seconds since January 1, 1970. The value is zero if the fault state has not changed since the last reboot.

Object	OID	Description
highAvailFaultState	1.3.6.1.4.1.10734.3.3.2.6.2	The current fault state of the device: • 0: normal • 1: fallback
highAvailFaultCause	1.3.6.1.4.1.10734.3.3.2.6.3	The reason for the current fault state: • 0: none • 1: suspended task • 2: out of memory • 3: hardware breaking point • 4: TSE failure • 5: watchdog timeout • 6: user reset • 7: user-initiated fallback • 8: threshold failure • 9: software watchdog timeout • 10: OAM fault • 11: hard disk disabled
highAvailThresholdEnabled	1.3.6.1.4.1.10734.3.3.2.6.4	The current Layer-2 Fallback (L2FB) threshold-enabled setting for the device.
highAvailThresholdPercent	1.3.6.1.4.1.10734.3.3.2.6.5	If the fallback threshold is enabled, the percent packet loss at which the device is configured to enter L2FB.

Object	OID	Description
highAvailEnabled	1.3.6.1.4.1.10734.3.3.2.6.6	Indicates whether intrinsic network HA has been enabled.
highAvailTransparentState	1.3.6.1.4.1.10734.3.3.2.6.7	State of the connection to the device's transparent HA partner: 0: not connected 1: unresponsive 2: connected
highAvailTransparentEnabled	1.3.6.1.4.1.10734.3.3.2.6.8	Indicates whether transparent HA has been enabled.
highAvailTransparentPartner	1.3.6.1.4.1.10734.3.3.2.6.9	Network address or serial number of the device's transparent HA partner.
highAvailZeroPowerState	1.3.6.1.4.1.10734.3.3.2.6.10	The current ZPHA state.
highAvailZeroPowerQuantity	1.3.6.1.4.1.10734.3.3.2.6.11	The number of segments with ZPHA modules.
highAvailZeroPowerTable	1.3.6.1.4.1.10734.3.3.2.6.12	Table of segments with ZPHA modules.
highAvailZeroPowerEntry	1.3.6.1.4.1.10734.3.3.2.6.12.1	An entry in the ZPHA table.
highAvailZeroPowerIndex	1.3.6.1.4.1.10734.3.3.2.6.12.1.1	The index number of the entry. For TPS devices, this number will always be 1.
highAvailZeroPowerSegment	1.3.6.1.4.1.10734.3.3.2.6.12.1.2	The name of the segment on which ZPHA is enabled. For TPS devices, this name will always be Segment ALL.

Object	OID	Description
highAvailZeroPowerActive	1.3.6.1.4.1.10734.3.3.2.6.12.1.3	The current ZPHA state of the segment: 0: normal, ZPHA inactive 1: TPS bypass, ZPHA active
highAvailZeroPowerAction	1.3.6.1.4.1.10734.3.3.2.6.12.1.4	The action taken when ZPHA is active. For TPS devices, this mode will always be 1 : bypass.
highAvailZeroPowerMode	1.3.6.1.4.1.10734.3.3.2.6.12.1.5	The fiber mode of this ZPHA. For TPS devices, this mode will always be 0 : unknown.
highAvailZeroPowerPresence	1.3.6.1.4.1.10734.3.3.2.6.13	Indicates ZPHA presence: 0: present 1: absent

The following notifications and SNMP traps apply to Intrinsic Network HA.

Object	OID	Description
tptIhaNotify	1.3.6.1.4.1.10734.3.3.3.0.15	The notification object that informs the management station of changes in the Intrinsic HA state of the device. Triggered when the device enters or exits L2FB. Possible causes: - Depleted memory. - User reset – Manually clearing L2FB. - User fallback – Manually entering L2FB.

Object	OID	Description
		- Threshold failure – Performance protection triggers L2FB. - Process error – Crash of a vital process. - Watchdog timeout – Failure of process monitoring.
tptIhaNotifyDeviceID	1.3.6.1.4.1.10734.3.3.3.1.81	The unique identifier of the device sending the notification.
tptIhaNotifyTimeStamp	1.3.6.1.4.1.10734.3.3.3.1.82	The timestamp of the notification in seconds since January 1, 1970.
tptIhaNotifyFaultState	1.3.6.1.4.1.10734.3.3.3.1.83	The current fault state of the device: 0: normal 1: fallback
tptIhaNotifyFaultCause	1.3.6.1.4.1.10734.3.3.3.1.84	The reason for the current fault state: - out-of-memory - user-reset (user manually clears L2FB) - user-fallback (user manually enters L2FB) - threshold failure (L2FB triggered by performance protection) - process error (crash of vital process)

Object	OID	Description
		software watchdog timeout (failure of process monitoring)

The following notifications and SNMP traps apply to Transparent Network HA.

Object	OID	Description
tpTrhaNotify	1.3.6.1.4.1.10734.3.3.3.0.18	The notification object that informs the management station of changes in the transparent HA state of the device. Triggered when the HA partner is connected or not-connected (including unresponsive).
tpTrhaNotifyDeviceID	1.3.6.1.4.1.10734.3.3.3.1.86	The unique identifier of the device sending the notification.
tpTrhaNotifyTimeStamp	1.3.6.1.4.1.10734.3.3.3.1.87	The timestamp of the notification in seconds since January 1, 1970.
tpTrhaNotifyNewState	1.3.6.1.4.1.10734.3.3.3.1.88	State of the connection to the device's transparent HA partner: - not connected - connected

The following notifications and SNMP traps apply to Zero-Power HA (ZPHA).

Object	OID	Description
tptZphaNotify	1.3.6.1.4.1.10734.3.3.3.0.24	The notification object that informs the management station of changes in the ZPHA state of the device.
tptZphaNotifyDeviceID	1.3.6.1.4.1.10734.3.3.3.1.161	The unique identifier of the device sending the notification.
tptZphaNotifyTimeStamp	1.3.6.1.4.1.10734.3.3.3.1.162	The timestamp of the notification in seconds since January 1, 1970.
tptZphaNotifySegmentName	1.3.6.1.4.1.10734.3.3.3.1.163	The name of the segment on which ZPHA is enabled.
tptZphaNotifyNewState	1.3.6.1.4.1.10734.3.3.3.1.164	The current ZPHA state of the segment: • 0: normal, ZPHA inactive • 1: IPS bypass, ZPHA active

The following notifications and SNMP traps apply to changes in the Performance Protection state.

Object	OID	Description
tptPerfProtTrap	1.3.6.1.4.1.10734.3.3.3.0.21	Triggered when performance protection is triggered by engine or NIC congestion.
tptPerfProtNotifyDeviceID	1.3.6.1.4.1.10734.3.3.3.1.141	The unique identifier of the device sending the notification.
tptPerfProtNotifyTimeStamp	1.3.6.1.4.1.10734.3.3.3.1.142	The timestamp of the notification in seconds since January 1, 1970.

Object	OID	Description
tptPerfProtNotifyPhase	1.3.6.1.4.1.10734.3.3.3.1.143	Indicates the current performance protection mode: • 1: entering • 2: continuing • 3: exiting
tptPerfProtNotifyPacketLoss	1.3.6.1.4.1.10734.3.3.3.1.144	The current packet loss rate per thousand. When exiting performance protection mode, the value will always be 0 (zero).
tptPerfProtNotifyLossThreshold	1.3.6.1.4.1.10734.3.3.3.1.145	The current packet loss threshold per thousand.
tptPerfProtNotifyDuration	1.3.6.1.4.1.10734.3.3.3.1.146	The number of seconds that performance protection will be active.
tptPerfProtNotifyMissedAlerts	1.3.6.1.4.1.10734.3.3.3.1.147	The number of alerts missed during the performance protection period. When exiting performance protection mode, the value will always be 0 (zero).

TPT-MISC-NOTIFY-MIB

Notifications for logs and other features.

Note: The MIB file includes references to Network Discovery Scan.

This object applies to all notifications.

Common TPT notification objects

The following table describes general notification objects:

Object	OID	Description
tptMiscNotifyDeviceID	1.3.6.1.4.1.10734.3.3.3.1.31	The unique identifier of the device sending the notification. This is the first payload parameter for all notifications in the TPT-MISC-NOTIFY module.

Management TPT notification objects

The following table describes management notification objects. These notifications communicate with the management station:

Object	OID	Description
tptManagedNotify	1.3.6.1.4.1.10734.3.3.3.0.9	Informs the management station that the device is now being managed by that station
tptUnmanagedNotify	1.3.6.1.4.1.10734.3.3.3.0.10	Informs the management station that the device is no longer being managed by that station

Quarantine TPT notification objects

The following notifications are generated by quarantine actions:

Object	OID	Description
tptQuarantineNotify	1.3.6.1.4.1.10734.3.3.3.0.20	The notification that indicates that a host has been added to or removed from the quarantine list.
tptQuarantineNotifyNetAddr	1.3.6.1.4.1.10734.3.3.3.1.132	The network address of the host being quarantined or removed from the quarantine list.

Object	OID	Description
tptQuarantineNotifyHostNetAddrV6	1.3.6.1.4.1.10734.3.3.3.1.133	The IPv6 network address of the host.
tptQuarantineNotifyReason	1.3.6.1.4.1.10734.3.3.3.1.134	The reason that the host was quarantined. The parameter is undefined if the host was removed.
tptQuarantineNotifySegmentName	1.3.6.1.4.1.10734.3.3.3.1.135	The segment related to the quarantine or removal from the quarantine list.
tptQuarantineNotifyAction	1.3.6.1.4.1.10734.3.3.3.1.136	Whether the host was added to or removed from the quarantine list. 1: add 2: remove
tptQuarantineNotifySslInspected (2200T only)	1.3.6.1.4.1.10734.3.3.3.1.181	Flag indicating if this quarantine action was performed on an inspected SSL data stream. 1: Yes 2: No

Congestion notifications

The following notifications and SNMP traps are generated when congestion thresholds are met.

Object	OID	Description
tptCongestionPacketLoss	1.3.6.1.4.1.10734.3.3.3.1.153	The current packet-loss rate per thousand.

Object	OID	Description
tptCongestionNotifyPhase	1.3.6.1.4.1.10734.3.3.3.1.154	Indicates whether the device is entering, continuing, or exiting congestion threshold mode. • 1: entering • 2: continuing • 3: exiting
tptCongestionThreshold	1.3.6.1.4.1.10734.3.3.3.1.155	The current packet-loss threshold per thousand.
tptTier3CongestionPacketLoss	1.3.6.1.4.1.10734.3.3.3.1.156	The current Tier 3 packet-loss rate per thousand.
tptTier3CongestionNotifyPhase	1.3.6.1.4.1.10734.3.3.3.1.157	Indicates whether the device is entering, continuing, or exiting Tier 3 congestion threshold mode.
tptTier3CongestionThreshold	1.3.6.1.4.1.10734.3.3.3.1.158	The current Tier 3 packet-loss threshold per thousand.
tptCongestionThresholdNotify	1.3.6.1.4.1.10734.3.3.3.0.25	The notification that the device-wide congestion has reached the configured congestion threshold. Triggered only by engine congestion, not NIC congestion.
tptTier3CongestionNotify	1.3.6.1.4.1.10734.3.3.3.0.26	The notification that the Tier 3 congestion has reached the configured congestion threshold. Triggered only by engine congestion, not NIC congestion.

System Log TPT notification objects

The following notifications are generated when a critical message, error message, or warning is logged in the system log:

Object	OID	Description
tptSystemLogNotify	1.3.6.1.4.1.10734.3.3.3.0.16	The notification that a critical message, error message, or warning has been logged.
tptSystemLogNotifyText	1.3.6.1.4.1.10734.3.3.3.1.92	The text of the message being logged.
tptSystemLogNotifySequence	1.3.6.1.4.1.10734.3.3.3.1.93	The log file entry sequence number corresponding to this notification. This value will always be 0 (zero).
tptSystemLogNotifySeverity	1.3.6.1.4.1.10734.3.3.3.1.94	The severity of the attack: • 1: critical • 2: error • 4: warning
tptSystemLogNotifyTimeSec	1.3.6.1.4.1.10734.3.3.3.1.95	The time that this message was logged, in seconds since January 1, 1970.
tptSystemLogNotifyTimeNano	1.3.6.1.4.1.10734.3.3.3.1.96	The nanoseconds portion of tptSystemLogNotifyTimeSec.

Audit Log TPT notification objects

The following notifications are generated when a message or warning is logged in the audit log:

Object	OID	Description
tptAuditLogNotify	1.3.6.1.4.1.10734.3.3.3.0.60	Audit log notification uses the following fields: - tptMiscNotifyDeviceID - tptAuditLogNotifyTime - tptAuditLogNotifyAccess - tptAuditLogNotifyType - tptAuditLogNotifyIpAddressType - tptAuditLogNotifyIpAddress - tptAuditLogNotifyCategory - tptAuditLogNotifyResult - tptAuditLogNotifyUser - tptAuditLogNotifyMessage
tptAuditLogNotifyTime	1.3.6.1.4.1.10734.3.3.3.1.170	The date and time when the entry was logged.
tptAuditLogNotifyAccess	1.3.6.1.4.1.10734.3.3.3.1.171	The access level of the user initiating the audit check and generating the log. This is a bit field with the following mapping: 0x0 – normal 0x1 – operator 0x4 – administrator 0x8 – super-user
tptAuditLogNotifyType	1.3.6.1.4.1.10734.3.3.3.1.172	Interface source of the audit log action.

Object	OID	Description
tptAuditLogNotifyIpAddrType	1.3.6.1.4.1.10734.3.3.3.1.173	Type of IP address from which the user connected.
tptAuditLogNotifyIpAddr	1.3.6.1.4.1.10734.3.3.3.1.174	IP address from which the user connected
tptAuditLogNotifyCategory	1.3.6.1.4.1.10734.3.3.3.1.175	Functional area where the audit log was generated: 1: undefined 2: general 3: login 4: logout 5: user 6: time 7: policy 8: update 9: boot 10: report 11: host 12: cfg 13: device 14: sms 15: server 16: segment 17: license 18: ha 19: monitor 20: ipFilter 21: connTable 22: hostComm

Object	OID	Description
		23: tse 24: cf
tptAuditLogNotifyResult	1.3.6.1.4.1.10734.3.3.3.1.176	The result, pass or fail, of an audit check: 1: success 2: failed
tptAuditLogNotifyUser	1.3.6.1.4.1.10734.3.3.3.1.177	The user initiating the audit check and generating the log.
tptAuditLogNotifyMessage	1.3.6.1.4.1.10734.3.3.3.1.178	A description of what configuration change was attempted (and possibly succeeded) by the user.

TPT-NPSTATS-MIB

Information about network processor statistics.

The following objects apply to the NP statistics rules table.

Object	OID	Description
npstatsRulesTable	1.3.6.1.4.1.10734.3.3.2.10.1	A table of network processor statistics, sorted in descending order of the number of flows.
npstatsRulesEntry	1.3.6.1.4.1.10734.3.3.2.10.1.1	An entry in the network processor statistics rules table. Rows cannot be added or deleted.
npstatsRulesRank	1.3.6.1.4.1.10734.3.3.2.10.1.1	The numerical ranking in the table.

Object	OID	Description
npstatsRulesFilter	1.3.6.1.4.1.10734.3.3.2.10.1.2	The filter number.
npstatsRulesFlows	1.3.6.1.4.1.10734.3.3.2.10.1.3	The number of flows that have triggered the filter.
npstatsRulesSuccess	1.3.6.1.4.1.10734.3.3.2.10.1.4	The number of times the filter has been successfully matched.
npstatsRulesTotalPercent	1.3.6.1.4.1.10734.3.3.2.10.1.5	The number of flows that have triggered this filter as a percentage of all flows through the device.
npstatsRulesSuccessPer10K	1.3.6.1.4.1.10734.3.3.2.10.1.6	The number of filter matches for every 10,000 flows triggered.

The following objects apply to the NP tier statistics.

Object	OID	Description
npstatsTiersTable	1.3.6.1.4.1.10734.3.3.2.10.2	A table of network processor statistics, sorted by tier.
npstatsTiersEntry	1.3.6.1.4.1.10734.3.3.2.10.2.1	An entry in the network processor statistics tiers table.
npstatsTierNumber	1.3.6.1.4.1.10734.3.3.2.10.2.1.1	The tier number.
npstatsTiersReceiveMbps	1.3.6.1.4.1.10734.3.3.2.10.2.1.2	The current receive rate on the tier in Mbps.
npstatsTiersTransmitMbps	1.3.6.1.4.1.10734.3.3.2.10.2.1.3	The current transmit rate on the tier in Mbps.

Object	OID	Description
npstatsTiersRxPktsPerSec	1.3.6.1.4.1.10734.3.3.2.10.2.1.4	The current receive rate in packets per second.
npstatsTiersMaxPktsPerSec	1.3.6.1.4.1.10734.3.3.2.10.2.1.5	The maximum receive rate in packets per second.
npstatsTiersAvgBytesPerPkt	1.3.6.1.4.1.10734.3.3.2.10.2.1.6	The average packet size in bytes.
npstatsTiersUtilizationPercent	1.3.6.1.4.1.10734.3.3.2.10.2.1.7	The percent utilization of this tier.
npstatsTiersTiersRatioToNextPer10K	1.3.6.1.4.1.10734.3.3.2.10.2.1.8	The ratio of this tier's throughput to the next per 10,000.
npstatsTiersMaxReceiveMbps	1.3.6.1.4.1.10734.3.3.2.10.2.1.9	The maximum receive rate in Mbps.
npstatsTiersMaxTransmitMbps	1.3.6.1.4.1.10734.3.3.2.10.2.1.10	The maximum transmit rate in Mbps.

The following objects apply to other NP statistics.

Object	OID	Description
npstatsTiersExtra	1.3.6.1.4.1.10734.3.3.2.10.3	A list of additional network processor statistics information.
npstatsTier1BypassMbps	1.3.6.1.4.1.10734.3.3.2.10.3.1	The current bypass rate in Mbps. For TPS devices, this value is always 0 (zero).
npstatsTier1Balance	1.3.6.1.4.1.10734.3.3.2.10.3.2	The load balance across network processors. A value of 1000 is exactly balanced, and 0 indicates

Object	OID	Description
		all traffic is being handled on one processor. For TPS devices, this value is always 0 (zero).
npstatsTier1MaxPktsPerSecA	1.3.6.1.4.1.10734.3.3.2.10.3.3	The maximum processor A receive rate in packets per second.
npstatsTier1MaxPktsPerSecB	1.3.6.1.4.1.10734.3.3.2.10.3.4	The maximum processor B receive rate in packets per second. For TPS devices, this value is always 0 (zero).
npstatsTier1TxPktsPerSec	1.3.6.1.4.1.10734.3.3.2.10.3.8	The transmit rate in packets per second.
npstatsTier1MaxTxPktsPerSec	1.3.6.1.4.1.10734.3.3.2.10.3.9	The maximum transmit rate in packets per second.
npstatsTier4TriggerMatchPer1000	1.3.6.1.4.1.10734.3.3.2.10.3.5	Proportion of traffic inspected because of a trigger match (percent value times 100).
npstatsTier4ReroutePer1000	1.3.6.1.4.1.10734.3.3.2.10.3.6	Proportion of traffic inspected because of a reroute (percent value times 100).
npstatsTier4ProtoDcdPer1000	1.3.6.1.4.1.10734.3.3.2.10.3.11	Percentage of reroute packets that are sent to TCP reassembly when additional analysis is required of a protocol. Protocols that need further analysis include FTP commands, Telnet, HTTP encoded frames, Microsoft SMB frames, and Microsoft RPC frames.

Object	OID	Description
npstatsTier4TcpSequencePer1000	1.3.6.1.4.1.10734.3.3.2.10.3.7	Proportion of traffic inspected because of TCP sequence (percent value times 100).
npstatsTier1MaxPktsPerSecC	1.3.6.1.4.1.10734.3.3.2.10.3.10	The maximum receive rate for processor C in packets per second. For TPS devices, this value is always 0 (zero).
npstatsTier1PatternMatchToRxPktsPerSecRatio	1.3.6.1.4.1.10734.3.3.2.10.3.21	The ratio of this tier's pattern match packets per second to RX packets per second.
npstatsTier1MaxPatternMatchToRxPktsPerSecRatio	1.3.6.1.4.1.10734.3.3.2.10.3.22	The maximum ratio of this tier's pattern match packets per second to RX packets per second.
npstatsTier2MaxTxTrustedPktsPer	1.3.6.1.4.1.10734.3.3.2.10.3.23	The maximum Tier 2 Trusted packets transmit rate in packets per second.
npstatsTier3MaxTxTrustedPktsPer	1.3.6.1.4.1.10734.3.3.2.10.3.24	The maximum Tier 3 Trusted packets transmit rate in packets per second.
npstatsTier4MaxTxTrustedPktsPer	1.3.6.1.4.1.10734.3.3.2.10.3.25	The maximum Tier 4 Trusted packets transmit rate in packets per second.
npstatsTier4MaxTriggerMatchPer1	1.3.6.1.4.1.10734.3.3.2.10.3.26	Maximum proportion of traffic inspected because of trigger match (percent value times 100).

Object	OID	Description
npstatsTier4MaxReroutePer1000	1.3.6.1.4.1.10734.3.3.2.10.3.27	Maximum proportion of traffic inspected because of reroute (percent value times 100).
npstatsTier4MaxTcpSequencePer1000	1.3.6.1.4.1.10734.3.3.2.10.3.28	Maximum proportion of traffic inspected because of TCP sequence (percent value times 100).
npstatsTier4MaxProtoDcdPer1000	1.3.6.1.4.1.10734.3.3.2.10.3.29	Maximum proportion of reroute traffic inspected because of protocol decode (percent value times 100).
npstatsMisc	1.3.6.1.4.1.10734.3.3.2.10.4	Miscellaneous network processor statistical information.

Segment port stats

Statistical information pertaining to network segments for a stack configuration.

Object	OID	Description
npstatsStackSegment RecieveMbps	1.3.6.1.4.1.10734.3.3.2.10.10.1	Aggregate Rx rate in Mbps from all network segments.
npstatsStackSegmentMax RecieveMbps	1.3.6.1.4.1.10734.3.3.2.10.10.2	Maximum Rx rate in Mbps from all network segments.
npstatsStackSegment TransmitMbps	1.3.6.1.4.1.10734.3.3.2.10.10.3	Aggregate Tx rate in Mbps to all network segments.
npstatsStackSegmentMax TransmitMbps	1.3.6.1.4.1.10734.3.3.2.10.10.4	Maximum Tx rate in Mbps to all network segments.

Object	OID	Description
npstatsStackBalance	1.3.6.1.4.1.10734.3.3.2.10.10.5	The load balance percent across all stack members.
npstatsStackMinBalance	1.3.6.1.4.1.10734.3.3.2.10.10.6	The minimum, non-zero load balance percent across all stack members.
npstatsStackSegmentRatio ToTier1Per10K	1.3.6.1.4.1.10734.3.3.2.10.10.7	The ratio of this tier's throughput to tier 1 per 10,000 (percent value times 100).
npstatsStackSegmentMaxRatio ToTier1Per10K	1.3.6.1.4.1.10734.3.3.2.10.10.8	The maximum ratio of this tier's throughput to tier 1 per 10,000 (percent value times 100).

Stack member table

Statistical information related to network segments for each stack member.

Object	OID	Description
npstatsStackMemberKey	1.3.6.1.4.1.10734.3.3.2.10.10.9.1.2	Unique stack member identifier.
npstatsStackMemberHostname	1.3.6.1.4.1.10734.3.3.2.10.10.9.1.3	The stack member host name.
npstatsStackMemberSegment ReceiveMbps	1.3.6.1.4.1.10734.3.3.2.10.10.9.1.4	The current segment Rx rate in Mbps for a stack member.
npstatsStackMemberMaxSegment ReceiveMbps	1.3.6.1.4.1.10734.3.3.2.10.10.9.1.5	The maximum segment Rx rate in Mbps for a stack member.

Stacking port stats

Statistical information pertaining to stacking ports in a stack configuration.

Object	OID	Description
npstatsStackPortsRecieveMbps	1.3.6.1.4.1.10734.3.3.2.10.11.1	Aggregate Rx rate in Mbps from all stacking ports.
npstatsStackPortsMax RecieveMbps	1.3.6.1.4.1.10734.3.3.2.10.11.2	Maximum Rx rate in Mbps from all stacking ports.
npstatsStackPortsTransmitMbps	1.3.6.1.4.1.10734.3.3.2.10.11.3	Aggregate Tx rate in Mbps for all stacking ports.
npstatsStackPortsMax TransmitMbps	1.3.6.1.4.1.10734.3.3.2.10.11.4	Maximum Tx rate in Mbps for all stacking ports.
npstatsStackRxToStackTxMbps	1.3.6.1.4.1.10734.3.3.2.10.11.5	Aggregate through traffic rate from segment ports to stacking ports.
npstatsStackMaxRxToStack TxMbps	1.3.6.1.4.1.10734.3.3.2.10.11.6	The maximum through traffic rate from segment ports to stacking ports.
npstatsStackRxToSegment TxMbps	1.3.6.1.4.1.10734.3.3.2.10.11.7	Return rate in Mbps for traffic coming in on the stacking ports and transmitted to the segment ports.
npstatsStackMaxRxToSegment TxMbps	1.3.6.1.4.1.10734.3.3.2.10.11.8	Maximum return rate in Mbps for traffic coming in on the stacking ports and transmitted to the segment ports.
npstatsStackRatioToTier1Per10K	1.3.6.1.4.1.10734.3.3.2.10.11.9	Percent of traffic being inspected by this device as a ratio of the stack Rx traffic to tier 1 per 10,000 (percent value times 100).

Object	OID	Description
npstatsStackMaxRatioToTier1 Per10K	1.3.6.1.4.1.10734.3.3.2.10.11.10	Maximum percent of traffic being inspected by this device as a ratio of the stack Rx traffic to tier 1 per 10,000 (percent value times 100).

SSL inspection objects

(2200T only) SSL Inspection (SslInsp) objects provide information about SSL inspection activity.

Object	OID	Description
npstatsSslInsp	1.3.6.1.4.1.10734.3.3.2.10.5	Sub-tree for all SSL inspection statistics.
npstatsSslInspCurrentSessions	1.3.6.1.4.1.10734.3.3.2.10.5.1	The current number of active SSL sessions. This value is not real-time and will lag approximately 2 minutes from actual, due to the time interval for calculating the rate.
npstatsSslInspConnectionRate	1.3.6.1.4.1.10734.3.3.2.10.5.2	The average SSL connection rate in connections per second.
npstatsSslInspBlockedMaxConns	1.3.6.1.4.1.10734.3.3.2.10.5.3	The number of blocked SSL sessions due to maximum connection limit.
npstatsSslInspPassedMaxConns	1.3.6.1.4.1.10734.3.3.2.10.5.4	The number of passed (not inspected) SSL sessions due to maximum connection limit.
npstatsSslInspTotalBytesIn	1.3.6.1.4.1.10734.3.3.2.10.5.5	The number of inspected inbound SSL bytes.

Object	OID	Description
npstatsSslInspTotalBytesOut	1.3.6.1.4.1.10734.3.3.2.10.5.6	The number of inspected outbound SSL bytes.

TPT-POLICY-MIB

The following notifications are generated by policy actions:

Object	OID	Description
tptPolicyNotify	1.3.6.1.4.1.10734.3.3.3.0.8	The notification that a policy action has resulted from a signature match.
tptPolicyNotifyClientip	1.3.6.1.4.1.10734.3.3.3.1.139	The client IP address associated with the notification. This value is always set to "".
tptPolicyNotifyDeviceID	1.3.6.1.4.1.10734.3.3.3.1.11	The unique identifier of the device sending the policy notification.
tptPolicyNotifyMetadata	1.3.6.1.4.1.10734.3.3.3.1.140	Additional event information associated with the notification. Because this object is targeted for future support, this value is always set to N/A.
tptPolicyNotifyPolicyID	1.3.6.1.4.1.10734.3.3.3.1.12	The unique identifier of the policy that causes the notification.
tptPolicyNotifySignatureID	1.3.6.1.4.1.10734.3.3.3.1.13	The unique identifier of the signature matching the incoming data stream.

Object	OID	Description
tptPolicyNotifySegmentName (obsolete)	1.3.6.1.4.1.10734.3.3.3.1.14	The name of the segment to which the notification applies. Not included in notification.
tptPolicyNotifySrcNetAddr	1.3.6.1.4.1.10734.3.3.3.1.15	The IPv4 address of the source of the packet that triggered the policy action.
tptPolicyNotifySrcNetAddrV6	1.3.6.1.4.1.10734.3.3.3.1.128	The IPv6 address of the source of the packet that triggered the policy action.
tptPolicyNotifySrcNetPort	1.3.6.1.4.1.10734.3.3.3.1.16	The source port of the packet that triggered the policy action.
tptPolicyNotifyDestNetAddr	1.3.6.1.4.1.10734.3.3.3.1.17	The IPv4 address of the destination of the packet that triggered the policy action.
tptPolicyNotifyDestNetAddrV6	1.3.6.1.4.1.10734.3.3.3.1.129	The IPv6 address of the destination of the packet that triggered the policy action.
tptPolicyNotifyDestNetPort	1.3.6.1.4.1.10734.3.3.3.1.18	The destination port of the packet that triggered the policy action.
tptPolicyNotifyStartTimeSec	1.3.6.1.4.1.10734.3.3.3.1.19	The time at which the policy was first triggered, marking the start of the aggregation period for this notification. Measured in seconds since January 1, 1970.
tptPolicyNotifyAlertAction	1.3.6.1.4.1.10734.3.3.3.1.20	The action associated with this notification. 1: deny

Object	OID	Description
		2: allow
tptPolicyNotifyConfigAction	1.3.6.1.4.1.10734.3.3.3.1.21	The action configured for the policy, which in some cases can differ from the action associated with the notification. 1: deny 2: allow
tptPolicyNotifyComponentID	1.3.6.1.4.1.10734.3.3.3.1.22	The component identifier of the policy that causes the notification: 0: invalid 1: deny 2: allow 7: alert 8: block 9: peer
tptPolicyNotifyHitCount	1.3.6.1.4.1.10734.3.3.3.1.23	The number of policy hits occurring during the aggregation period for this notification.
tptPolicyNotifyAggregationPeriod	1.3.6.1.4.1.10734.3.3.3.1.24	The duration of the aggregation period for this notification, in minutes.
tptPolicyNotifySeverity	1.3.6.1.4.1.10734.3.3.3.1.25	The severity of the attack. 1: warning 2: minor 3: major 4: critical

Object	OID	Description
tptPolicyNotifyProtocol	1.3.6.1.4.1.10734.3.3.3.1.26	The network protocol of the packet(s) that triggered the policy action. • 1: ICMP • 2: UDP • 3: TCP • 4: other IP • 5: ARP • 6: other ETH • 7: ICMP v6 • 8: other IPV6
tptPolicyNotifyAlertTimeSec	1.3.6.1.4.1.10734.3.3.3.1.27	The time that the alert was initiated, marking the end of the aggregation period for this notification. Measured in seconds since January 1, 1970.
tptPolicyNotifyAlertTimeNano	1.3.6.1.4.1.10734.3.3.3.1.28	The nanoseconds portion of the AlertTimeSec object.
tptPolicyNotifyPacketTrace	1.3.6.1.4.1.10734.3.3.3.1.29	Indicates if a corresponding packet trace was logged. • 0: not logged • 1: logged.
tptPolicyNotifySequence	1.3.6.1.4.1.10734.3.3.3.1.30	The log file entry sequence number corresponding to this notification. This value is always set to 0 (zero).

Object	OID	Description
tptPolicyNotifyTraceBucket	1.3.6.1.4.1.10734.3.3.3.1.36	The bucket identifier for a packet trace.
tptPolicyNotifyTraceBegin	1.3.6.1.4.1.10734.3.3.3.1.37	The starting sequence number for a packet trace.
tptPolicyNotifyTraceEnd	1.3.6.1.4.1.10734.3.3.3.1.38	The ending sequence number for a packet trace.
tptPolicyNotifyMessageParams	1.3.6.1.4.1.10734.3.3.3.1.39	A string containing parameters separated by vertical bars () that match information tagged with Message in the DV.
tptPolicyNotifyStartTimeNano	1.3.6.1.4.1.10734.3.3.3.1.40	The nanoseconds portion of StartTimeSec.
tptPolicyNotifyAlertType	1.3.6.1.4.1.10734.3.3.3.1.41	A bit field defined as follows: • 0x0001 = Alert • 0x0002 = Block • 0x0020 = Peer-to-peer • 0x0040 = Invalid • 0x0080 = Threshold • 0x0100 = Management.
tptPolicyNotifyInputMphy	1.3.6.1.4.1.10734.3.3.3.1.57	The incoming physical port of the triggering packet(s).
tptPolicyNotifyVlanTag	1.3.6.1.4.1.10734.3.3.3.1.58	The VLAN tag of the triggering packet(s).

Object	OID	Description
tptPolicyNotifyZonePair	1.3.6.1.4.1.10734.3.3.3.1.59	A string that identifies the port pair related to this notification. This value is always set to "".
tptPolicyNotifyActionSetID	1.3.6.1.4.1.10734.3.3.3.1.130	The action set UUID associated with this notification.
tptPolicyNotifyRate	1.3.6.1.4.1.10734.3.3.3.1.131	The rate-limit, in kbps, of the action set associated with this notification.
tptPolicyNotifyFlowControl	1.3.6.1.4.1.10734.3.3.3.1.137	The action set flow control associated with this notification.
tptPolicyNotifyActionSetName	1.3.6.1.4.1.10734.3.3.3.1.138	The action set name associated with this notification.
tptPolicyNotifySslInspected (2200T only)	.1.3.6.1.4.1.10734.3.3.3.1.180	A flag indicting if the notification is associated with an inspected SSL data stream. This flag is only present on IPS and Quarantine events and doesn't apply to Reputation. 1: Yes 2: No
tptPolicyNotifyVirtualSegment	.1.3.6.1.4.1.10734.3.3.3.1.182	Virtual segment associated with this notification.
tptPolicyNotifySslInspEventType (2200T only)	.1.3.6.1.4.1.10734.3.3.3.1.190	The SSL connection type. 1: inbound 2: outbound (not supported)
tptPolicyNotifySslInspAction (2200T only)	.1.3.6.1.4.1.10734.3.3.3.1.191	The SSL connection action taken 1: decrypted

Object	OID	Description
		• 2: notDecrypted • 3: blocked
tptPolicyNotifySslInspDetails (2200T only)	.1.3.6.1.4.1.10734.3.3.3.1.192	Free-form field that provides additional details for the action taken on a SSL connection
tptPolicyNotifySslInspPolicy (2200T only)	.1.3.6.1.4.1.10734.3.3.3.1.193	The SSL inspection policy.
tptPolicyNotifySslInspCert (2200T only)	.1.3.6.1.4.1.10734.3.3.3.1.194	The certificate used to decrypt SSL traffic.
tptPolicyNotifySslInspClntIF (2200T only)	.1.3.6.1.4.1.10734.3.3.3.1.195	The client-side interface receiving SSL traffic.
tptPolicyNotifySslInspClntSslVer (2200T only)	.1.3.6.1.4.1.10734.3.3.3.1.196	The client-side SSL protocol version. • 1: unknown • 2: sslv3 • 3: tls10 • 4: tls 11 • 5: tls12
tptPolicyNotifySslInspClntCrypto (2200T only)	.1.3.6.1.4.1.10734.3.3.3.1.197	The client-side SSL crypto-suite.
tptPolicyNotifySslInspSrvIF (2200T only)	.1.3.6.1.4.1.10734.3.3.3.1.198	The server-side interface sending SSL traffic.
tptPolicyNotifySslInspSrvSslVer (2200T only)	.1.3.6.1.4.1.10734.3.3.3.1.199	The server-side SSL protocol version.

Object	OID	Description
		1: unknown 2: sslv3 3: tls10 4: tls11 5: tls12
tptPolicyNotifySslInspSrvCrypto (2200T only)	.1.3.6.1.4.1.10734.3.3.3.1.200	The server-side SSL crypto-suite.

TPT-PORT-CONFIG-MIB

Describes information about the device port configuration.

Object	OID	Description
portConfigTable	1.3.6.1.4.1.10734.3.3.2.4.1	Table of ports on the device and their configuration settings. For TPS devices, the loopback column has no meaning and is set to 0.
portConfigEntry	1.3.6.1.4.1.10734.3.3.2.4.1.1	An entry in the ports table.
portConfigSlot	1.3.6.1.4.1.10734.3.3.2.4.1.1.1	The segment on which the port is located.
portConfigPort	1.3.6.1.4.1.10734.3.3.2.4.1.1.2	The port number.
portConfigLineSpeed	1.3.6.1.4.1.10734.3.3.2.4.1.1.3	The line speed configuration: 0: default 1: 1GbE 2: 100 Mb 3: 10 Mb

Object	OID	Description
		• 4: 10 GbE • 5: 40 GbE
portConfigDuplex	1.3.6.1.4.1.10734.3.3.2.4.1.1.4	The duplex configuration. • 0: default • 1: half • 2: full
portConfigAutoNeg	1.3.6.1.4.1.10734.3.3.2.4.1.1.5	The auto-negotiation configuration. • 0: default • 1: on • 2: off
portConfigShutdown	1.3.6.1.4.1.10734.3.3.2.4.1.1.6	The shutdown configuration. • 0: disabled—The port can come up normally. • 1: enabled—The port is either manually removed from service or link-down synchronization takes it out of service.
portConfigLoopback	1.3.6.1.4.1.10734.3.3.2.4.1.1.7	The loopback configuration. Because loopback is unsupported, it is always set to 0 (disabled).
portConfigFailover	1.3.6.1.4.1.10734.3.3.2.4.1.1.8	The failover action configuration: • 0: block • 1: permit
portConfigLDMode	1.3.6.1.4.1.10734.3.3.2.4.1.1.9	The link-down synchronization mode.

Object	OID	Description
		0: hub 1: breaker 2: write
portConfigLDSTimeout	1.3.6.1.4.1.10734.3.3.2.4.1.1.10	The link-down synchronization timeout configuration.

TPT-RESOURCE-MIB

Describes memory, power supply, temperature, and voltage information for the device.

File system

The following objects provide information about the device file system objects:

Object	OID	Description
resourceNumberOfFilesystems	1.3.6.1.4.1.10734.3.3.2.5.1	Number of filesystems on the device's hard disk
resourceFSTable	1.3.6.1.4.1.10734.3.3.2.5.2	Table of filesystem resource information
resourceFSEntry	1.3.6.1.4.1.10734.3.3.2.5.2.1	An entry in the resource filesystem table. Rows cannot be added or deleted.
resourceFSInUseMB	1.3.6.1.4.1.10734.3.3.2.5.2.1.1	Number of MB in use for the filesystem
resourceFSThresholdMaj	1.3.6.1.4.1.10734.3.3.2.5.2.1.2	Major threshold for the percent of MB in use for the filesystem
resourceFSThresholdCrit	1.3.6.1.4.1.10734.3.3.2.5.2.1.3	Critical threshold for the percent of MB in use for the filesystem

Object	OID	Description
resourceFSRangeMin	1.3.6.1.4.1.10734.3.3.2.5.2.1.4	Minimum value of the range of MB in use, usually 0 (zero)
resourceFSRangeMax	1.3.6.1.4.1.10734.3.3.2.5.2.1.5	Total size in MB of the filesystem
resourceFSName	1.3.6.1.4.1.10734.3.3.2.5.2.1.6	Name of this filesystem
resourceFSIndex	1.3.6.1.4.1.10734.3.3.2.5.2.1.7	Number of the table row, starting at one (1)

Memory

The following table provides information about the device memory usage objects:

Object	OID	Description
resourceHPMemoryObjs	1.3.6.1.4.1.10734.3.3.2.5.3	Sub-tree of host processor memory information
resourceHPMemoryInUsePercent	1.3.6.1.4.1.10734.3.3.2.5.3.1	Percentage of host processor memory in use
resourceHPMemoryThresholdMaj	1.3.6.1.4.1.10734.3.3.2.5.3.2	Major threshold value for host processor memory usage
resourceHPMemoryThresholdCrit	1.3.6.1.4.1.10734.3.3.2.5.3.3	Critical threshold value for host processor memory usage
resourceHPMemoryRangeMin	1.3.6.1.4.1.10734.3.3.2.5.3.4	Minimum percentage of host processor memory usage, usually 0 (zero)

Object	OID	Description
resourceHPMemoryRangeMax	1.3.6.1.4.1.10734.3.3.2.5.3.5	Maximum percentage of host processor memory usage, usually 100
resourceHPMemoryTotal	1.3.6.1.4.1.10734.3.3.2.5.3.6	Total size in bytes of host processor memory

CPU

The following table provides information about CPU usage objects:

Object	OID	Description
resourceHPCPUObjs	1.3.6.1.4.1.10734.3.3.2.5.4	Sub-tree of host processor CPU information
resourceHPCPUBusyPercent	1.3.6.1.4.1.10734.3.3.2.5.4.1	Percentage of host processor CPU that is currently busy
resourceHPCPUThresholdMaj	1.3.6.1.4.1.10734.3.3.2.5.4.2	Major threshold value for host processor CPU activity
resourceHPCPUThresholdCrit	1.3.6.1.4.1.10734.3.3.2.5.4.3	Critical threshold value of host processor CPU activity
resourceHPCPURangeMin	1.3.6.1.4.1.10734.3.3.2.5.4.4	Minimum percentage of host processor CPU activity, usually 0 (zero)
resourceHPCPURangeMax	1.3.6.1.4.1.10734.3.3.2.5.4.5	Maximum percentage of host processor CPU activity, usually 100
resourceNPCPUBusyPercentA	1.3.6.1.4.1.10734.3.3.2.5.4.6	Total Utilization of XLR A

Object	OID	Description
resourceNPCPUBusyPercentTier2A	1.3.6.1.4.1.10734.3.3.2.5.4.7	F Thread Utilization of XLR A
resourceNPCPUBusyPercentTier3A	1.3.6.1.4.1.10734.3.3.2.5.4.8	KS Thread Utilization of XLR A
resourceNPCPUBusyPercentTier4A	1.3.6.1.4.1.10734.3.3.2.5.4.9	L Thread Utilization of XLR A
resourceNPCPUBusyPercentB	1.3.6.1.4.1.10734.3.3.2.5.4.10	Total Utilization of XLR B
resourceNPCPUBusyPercentTier2B	1.3.6.1.4.1.10734.3.3.2.5.4.11	F Thread Utilization of XLR B
resourceNPCPUBusyPercentTier3B	1.3.6.1.4.1.10734.3.3.2.5.4.12	KS Thread Utilization of XLR B
resourceNPCPUBusyPercentTier4B	1.3.6.1.4.1.10734.3.3.2.5.4.13	L Thread Utilization of XLR B
resourceNPCPUBusyPercentC	1.3.6.1.4.1.10734.3.3.2.5.4.14	Total Utilization of XLR C
resourceNPCPUBusyPercent2C	1.3.6.1.4.1.10734.3.3.2.5.4.15	F Thread Utilization of XLR C
resourceNPCPUBusyPercent3C	1.3.6.1.4.1.10734.3.3.2.5.4.16	KS Thread Utilization of XLR C
resourceNPCPUBusyPercent4C	1.3.6.1.4.1.10734.3.3.2.5.4.17	L Thread Utilization of XLR C

Chassis temperature

The following table provide information about the chassis temperature objects:

Object	OID	Description
resourceChassisTempObjs	1.3.6.1.4.1.10734.3.3.2.5.5	Sub-tree of chassis temperature information

Object	OID	Description
resourceChassisTempDegreesC	1.3.6.1.4.1.10734.3.3.2.5.5.1	Chassis temperature
resourceChassisTempThresholdMaj	1.3.6.1.4.1.10734.3.3.2.5.5.2	Major threshold value for chassis temperature
resourceChassisTempThresholdCrit	1.3.6.1.4.1.10734.3.3.2.5.5.3	Critical threshold value of chassis temperature
resourceChassisTempRangeMin	1.3.6.1.4.1.10734.3.3.2.5.5.4	Minimum value of the chassis temperature range
resourceChassisTempRangeMax	1.3.6.1.4.1.10734.3.3.2.5.5.5	Maximum value of the chassis temperature range

Important: All values are in degrees Centigrade.

Power supply

The following table provides information about the chassis temperature objects:

Object	OID	Description
resourcePowerSupplyObjs	1.3.6.1.4.1.10734.3.3.2.5.9	Sub-tree of power supply information
resourcePowerSupplyQuantity	1.3.6.1.4.1.10734.3.3.2.5.9.2	Number of power supplies
resourcePowerSupplyMonitoring	1.3.6.1.4.1.10734.3.3.2.5.9.3	Indicates if power supply monitoring is enabled: • 0: disabled • 1: enabled
resourcePowerSupplyTable	1.3.6.1.4.1.10734.3.3.2.5.9.4	Table of power supplies on the device. The number of entries depends on the value of the

Object	OID	Description
		resourcePowerSupplyQuantity object. The maximum number of entries depends on the implementation.
resourcePowerSupplyEntry	1.3.6.1.4.1.10734.3.3.2.5.9.4.1	An entry in the power supply table. Rows cannot be created or deleted.
powerSupplyUnitIndex	1.3.6.1.4.1.10734.3.3.2.5.9.4.1.1	Index of the power supply units on a device. The first entry is 1.
powerSupplyStatus	1.3.6.1.4.1.10734.3.3.2.5.9.4.1.2	If the device has dual power supplies and power supply monitoring is enabled, this value indicates whether one or both power supplies is functional: • 0: unknown; the device does not have dual power supplies, or power supply monitoring is disabled. • 1: red—critical • 2: yellow—warning • 3: green—normal

System information

The following table provides information about the system objects:

Object	OID	Description
resourceDateTime	1.3.6.1.4.1.10734.3.3.2.5.10	Current date and time of device in seconds since January 1, 1970. There is no time zone offset.

Object	OID	Description
resourceSnmpRunState	1.3.6.1.4.1.10734.3.3.2.5.11	Indicates which SNMP versions are running: • 0: none • 1: SNMP v2 • 2: SNMP v3 • 3: Both v2 and v3
resourceSnmpConfig	1.3.6.1.4.1.10734.3.3.2.5.12	Indicates which SNMP versions are configured: • 0: none • 1: SNMP v2 • 2: SNMP v3 • 3: Both v2 and v3
resourceRemoteAuthEnabled	1.3.6.1.4.1.10734.3.3.2.5.13	Indicates whether remote authentication is enabled
resourceRemoteAuthTimeout	1.3.6.1.4.1.10734.3.3.2.5.14	The remote authentication timeout in seconds

TPT-SFLOW

Provides sFlow status and collector information. The sFlow statistics are sent from the collector to the device.

sFlow collectors

Object	OID	Description
sFlowCollectorTable	1.3.6.1.4.1.10734.3.3.2.18.1	Table of sFlow collectors. Up to two collectors are supported.

Object	OID	Description
sFlowCollectorEntry	1.3.6.1.4.1.10734.3.3.2.18.1.1	A collector address and port in the sFlowCollectorTable. Rows cannot be created or deleted.
collectorIndex	1.3.6.1.4.1.10734.3.3.2.18.1.1.1	Index into the sFlow collector table, starting with 1.
collectorAddr	1.3.6.1.4.1.10734.3.3.2.18.1.1.2	The IPv4 address of the collector. If the address is not set, the value will be an empty string.
udpPort	1.3.6.1.4.1.10734.3.3.2.18.1.1.3	The UDP port of the collector.
collectorAddrV6	1.3.6.1.4.1.10734.3.3.2.18.1.1.4	The IPv6 address of the collector. If the address is not set, the value will be an empty string.

sFlow status

Object	OID	Description
sFlowStatus	1.3.6.1.4.1.10734.3.3.2.18.2	sFlow status for the device: 0: disabled 1: enabled 2: error 3: not applicable

TPT-TPA-HARDWARE-MIB

Describes the device hardware and its components, including ports, chassis, fans, and power supplies.

The following table describes the hardware objects:

Object	OID	Description
hw-numFans	1.3.6.1.4.1.10734.3.3.2.3.7	Number of fan subunits on the device
hw-numPowerSupplies	1.3.6.1.4.1.10734.3.3.2.3.8	Number of power supply subunits on the device
hw-numPEMs	1.3.6.1.4.1.10734.3.3.2.3.9	Number of power entry module subunits on the device
hw-certificateNumber	1.3.6.1.4.1.10734.3.3.2.3.10	Hardware certificate number of the device
hw-serialNumber	1.3.6.1.4.1.10734.3.3.2.3.11	Hardware serial number of the device

Fans

The following table provides information about the fan hardware objects:

Object	OID	Description
hw-fanTable	1.3.6.1.4.1.10734.3.3.2.3.3	Table of fan data for the device. Represented as a table with one row.
hw-fanEntry	1.3.6.1.4.1.10734.3.3.2.3.3.1	An entry in the fan table.
fanSubunit	1.3.6.1.4.1.10734.3.3.2.3.3.1.1	The number for this entry in the fan table. The controller is always 0 (zero).
fanType	1.3.6.1.4.1.10734.3.3.2.3.3.1.3	Type of hardware element: • 0: unequipped • 19: fan controller • 20: fan subunit

Object	OID	Description
fanCfgType	1.3.6.1.4.1.10734.3.3.2.3.3.1.4	Fan configuration: • 0: unconfigured • 1: simplex • 2: duplex • 3: load share • 4: autonomous
fanRunState	1.3.6.1.4.1.10734.3.3.2.3.3.1.5	High-level hardware state of the fan: • 0: out of service • 1: initializing • 2: active • 3: standby • 4: diagnostic • 5: loopback • 6: active-FAF • 7: standby-FAF • 8: active - degraded • 9: standby - degraded
fanQualifier1	1.3.6.1.4.1.10734.3.3.2.3.3.1.6	Further qualification/detail on the high-level hardware state: • 1: degraded • 13: yellow alarm • 14: red alarm
fanQualifier2	1.3.6.1.4.1.10734.3.3.2.3.3.1.7	Further qualification/detail on the high-level hardware state: • 1: degraded

Object	OID	Description
		13: yellow alarm 14: red alarm
fanQualifier3	1.3.6.1.4.1.10734.3.3.2.3.3.1.8	Further qualification/detail on the high-level hardware state: 1: degraded 13: yellow alarm 14: red alarm
fanQualifier4	1.3.6.1.4.1.10734.3.3.2.3.3.1.9	Further qualification/detail on the high-level hardware state: 1: degraded 13: yellow alarm 14: red alarm
fanStartTime	1.3.6.1.4.1.10734.3.3.2.3.3.1.10	Time at which the fan was powered up
fanVendorID	1.3.6.1.4.1.10734.3.3.2.3.3.1.11	Identifying number of the fan vendor
fanDeviceID	1.3.6.1.4.1.10734.3.3.2.3.3.1.12	An identifying number specific to the fan
fanProductID	1.3.6.1.4.1.10734.3.3.2.3.3.1.13	Versions and other inventory information
fanFPGAVersion	1.3.6.1.4.1.10734.3.3.2.3.3.1.14	Version of the TippingPoint FPGA chip on the fan

For fan health, see [Fans](#) on page 16.

Power supply

The following table provides information about the power supply hardware objects:

Object	OID	Description
hw-psTable	1.3.6.1.4.1.10734.3.3.2.3.4	Table of power supply data for the device. Represented as a table with one row.
hw-psEntry	1.3.6.1.4.1.10734.3.3.2.3.4.1	Entry in the power supply table
psSubunit	1.3.6.1.4.1.10734.3.3.2.3.4.1.1	The number for this entry in the power supply table. This number is always 0 (zero).
psType	1.3.6.1.4.1.10734.3.3.2.3.4.1.3	Type of hardware element: • 0: unequipped • 17: power supply • 18: power supply sub-unit
psCfgType	1.3.6.1.4.1.10734.3.3.2.3.4.1.4	Power supply configuration: • 0: unconfigured • 1: simplex • 2: duplex • 3: load share • 4: autonomous
psRunState	1.3.6.1.4.1.10734.3.3.2.3.4.1.5	High-level hardware state of the power supply: • 0: out of service • 1: initializing • 2: active

Object	OID	Description
		• 3: standby • 4: diagnostic • 5: loopback • 6: active-FAF • 7: standby-FAF • 8: active - degraded • 9: standby - degraded
psQualifier1	1.3.6.1.4.1.10734.3.3.2.3.4.1.6	Further qualification/detail on the high-level hardware state. • 1: degraded • 13: yellow alarm • 14: red alarm
psQualifier2	1.3.6.1.4.1.10734.3.3.2.3.4.1.7	Further qualification/detail on the high-level hardware state. • 1: degraded • 13: yellow alarm • 14: red alarm
psQualifier3	1.3.6.1.4.1.10734.3.3.2.3.4.1.8	Further qualification/detail on the high-level hardware state. • 1: degraded • 13: yellow alarm • 14: red alarm
psQualifier4	1.3.6.1.4.1.10734.3.3.2.3.4.1.9	Further qualification/detail on the high-level hardware state. • 1: degraded

Object	OID	Description
		13: yellow alarm 14: red alarm
psStartTime	1.3.6.1.4.1.10734.3.3.2.3.4.1.10	Time at which the power supply was powered up
psVendorID	1.3.6.1.4.1.10734.3.3.2.3.4.1.11	Identifying number of the power supply vendor
psDeviceID	1.3.6.1.4.1.10734.3.3.2.3.4.1.12	Identifying number specific to the power supply
psProductID	1.3.6.1.4.1.10734.3.3.2.3.4.1.13	Versions and other inventory information
psFPGAVersion	1.3.6.1.4.1.10734.3.3.2.3.4.1.14	Version of the TippingPoint FPGA chip on the power supply

TPT-TRAFFIC

The TPT-TRAFFIC MIB defines traffic rate-limiting information.

Note: The MIB file includes traffic threshold information.

Rate limiter

The following objects provide rate-limit statistics.

Object	OID	Description
rateLimitTable	1.3.6.1.4.1.10734.3.3.2.8.1	A table providing data about a rate-limit action set.
rateLimitEntry	1.3.6.1.4.1.10734.3.3.2.8.1.1	An entry in the rate-limit table. Rows cannot be added or deleted.

Object	OID	Description
rateLimitGlobalID	1.3.6.1.4.1.10734.3.3.2.8.1.1.1	The global ID of a rate-limit action set.
rateLimitRequestedRate	1.3.6.1.4.1.10734.3.3.2.8.1.1.2	The bit rate in Kbps defined by the action set creator.
rateLimitActualRate	1.3.6.1.4.1.10734.3.3.2.8.1.1.3	The bit rate in Kbps defined at the hardware level.
rateLimitPacketsSent	1.3.6.1.4.1.10734.3.3.2.8.1.1.4	The number of packets sent via this action set since the table was last cleared.
rateLimitPacketsDropped	1.3.6.1.4.1.10734.3.3.2.8.1.1.5	The number of packets dropped by this action set since the table was last cleared.
rateLimitPacketsQueued	1.3.6.1.4.1.10734.3.3.2.8.1.1.6	The number of packets queued and ready to be sent via this action set.
rateLimitHistNumSeconds	1.3.6.1.4.1.10734.3.3.2.8.1.1.7	The number of seconds of valid historical sample data available.
rateLimitHistNumMinutes	1.3.6.1.4.1.10734.3.3.2.8.1.1.8	The number of minutes of valid historical sample data available.
rateLimitHistNumHours	1.3.6.1.4.1.10734.3.3.2.8.1.1.9	The number of hours of valid historical sample data available.

Rate limit historical seconds

The following objects provide rate-limit statistics as recorded every second for a minute.

Object	OID	Description
rateLimitHistSecondsTable	1.3.6.1.4.1.10734.3.3.2.8.2	Historical sample data as recorded every second for a minute.
rateLimitHistSecondsEntry	1.3.6.1.4.1.10734.3.3.2.8.2.1	An entry in the rate-limit history seconds table.
rateLimitHistSecondsGlobalID	1.3.6.1.4.1.10734.3.3.2.8.2.1.1	The global ID of a rate-limit action set.
rateLimitHistSecondsIndex	1.3.6.1.4.1.10734.3.3.2.8.2.1.2	The index (0–59) of a second.
rateLimitHistSecondsBytesSent	1.3.6.1.4.1.10734.3.3.2.8.2.1.3	The number of bytes sent in the specified second.
rateLimitHistSecondsTimestamp	1.3.6.1.4.1.10734.3.3.2.8.2.1.4	The time that this statistic was updated, measured in seconds since January 1, 1970.

Rate limit historical minutes

The following objects provide rate-limit statistics as recorded every minute for an hour.

Object	OID	Description
rateLimitHistMinutesTable	1.3.6.1.4.1.10734.3.3.2.8.3	Historical sample data as recorded every minute for an hour.
rateLimitHistMinutesEntry	1.3.6.1.4.1.10734.3.3.2.8.3.1	An entry in the rate-limit history minutes table.
rateLimitHistMinutesGlobalID	1.3.6.1.4.1.10734.3.3.2.8.3.1.1	The global ID of a rate-limit action set.

Object	OID	Description
rateLimitHistMinutesIndex	1.3.6.1.4.1.10734.3.3.2.8.3.1.2	The index (0–59) of a minute.
rateLimitHistMinutesBytesSent	1.3.6.1.4.1.10734.3.3.2.8.3.1.3	The number of bytes sent in the specified minute.
rateLimitHistMinutesTimestamp	1.3.6.1.4.1.10734.3.3.2.8.3.1.4	The time that this statistic was updated, measured in seconds since January 1, 1970.

Rate limit historical hours

The following objects provide rate-limit statistics as recorded every hour for a day.

Object	OID	Description
rateLimitHistHoursTable	1.3.6.1.4.1.10734.3.3.2.8.4	Historical sample data as recorded every hour for a day.
rateLimitHistHoursEntry	1.3.6.1.4.1.10734.3.3.2.8.4.1	An entry in the rate-limit history hours table.
rateLimitHistHoursGlobalID	1.3.6.1.4.1.10734.3.3.2.8.4.1.1	The global ID of a rate limit action set.
rateLimitHistHoursIndex	1.3.6.1.4.1.10734.3.3.2.8.4.1.2	The index (0–23) of an hour.
rateLimitHistHoursBytesSent	1.3.6.1.4.1.10734.3.3.2.8.4.1.3	The number of bytes sent in the specified hour.
rateLimitHistHoursTimestamp	1.3.6.1.4.1.10734.3.3.2.8.4.1.4	The time that this statistic was updated, measured in seconds since January 1, 1970.

TPT-TPAMIBS-MIB

Describes definitions for TPT device models. This section indicates the addition of the Threat Protection System (TPS) models to the table. For registration identifiers of other TPT models, refer to the *MIBs Guide* for those products on the TMC.

The following table identifies the TPS models:

Object	OID	Description
tpt-model-440T-IPS	1.3.6.1.4.1.10734.1.3.47	Registration for the 440T Threat Protection System.
tpt-model-2200T-IPS	1.3.6.1.4.1.10734.1.3.48	Registration for the 2200T Threat Protection System.
tpt-model-VTPS-Trial-IPS	1.3.6.1.4.1.10734.1.3.49	Registration for the TippingPoint vTPS Standard Trial Threat Protection System.
tpt-model-VTPS-Standard-IPS	1.3.6.1.4.1.10734.1.3.50	Registration for the TippingPoint vTPS Standard Threat Protection System.
tpt-model-8200TX-IPS	1.3.6.1.4.1.10734.1.3.51	Registration for the 8200TX Threat Protection System.
tpt-model-8400TX-IPS	1.3.6.1.4.1.10734.1.3.52	Registration for the 8400TX Threat Protection System.

TPT-TSE

Defines TSE settings, including adaptive filtering.

Adaptive filter configuration

The following table lists the top ten filters in the Adaptive Filter Configuration list.

Object	OID	Description
topTenAdaptFilterTable	1.3.6.1.4.1.10734.3.3.2.7.1	Adaptive filter configuration top ten list.
topTenAdaptFilterEntry	1.3.6.1.4.1.10734.3.3.2.7.1.1	An entry in the adaptive filter configuration top ten list. Rows cannot be added or deleted.
topTenAdaptFilterRank	1.3.6.1.4.1.10734.3.3.2.7.1.1.1	The numerical ranking of a filter in the adaptive filter top ten list.
adaptFilterName	1.3.6.1.4.1.10734.3.3.2.7.1.1.2	The name of the filter.
adaptFilterUUID	1.3.6.1.4.1.10734.3.3.2.7.1.1.3	The global identifier of the filter.
adaptFilterSegment	1.3.6.1.4.1.10734.3.3.2.7.1.1.4	The segment to which the filter applies.
adaptFilterEnabledState	1.3.6.1.4.1.10734.3.3.2.7.1.1.5	The state of the filter.
adaptFilterSigID	1.3.6.1.4.1.10734.3.3.2.7.1.1.7	The global identifier of a signature.
adaptFilterProfile	1.3.6.1.4.1.10734.3.3.2.7.1.1.8	The name of the profile associated with the filter.

Connection blocks table

The following table lists all connection blocks.

Object	OID	Description
connectionBlockTable	1.3.6.1.4.1.10734.3.3.2.7.2	Table of connections that correspond to blocked streams.

Object	OID	Description
connectionBlockEntry	1.3.6.1.4.1.10734.3.3.2.7.2.1	An entry in the connection block table. Rows cannot be added or deleted.
connectionBlockIndex	1.3.6.1.4.1.10734.3.3.2.7.2.1.1	The index number of the entry in the connection block table.
connectionBlockSrcAddr	1.3.6.1.4.1.10734.3.3.2.7.2.1.2	The source IPv4 address of a blocked connection.
connectionBlockSrcPort	1.3.6.1.4.1.10734.3.3.2.7.2.1.3	The source port of a blocked connection.
connectionBlockDestAddr	1.3.6.1.4.1.10734.3.3.2.7.2.1.4	The destination IPv4 address of a blocked connection.
connectionBlockDestPort	1.3.6.1.4.1.10734.3.3.2.7.2.1.5	The destination port of a blocked connection.
connectionBlockProtocol	1.3.6.1.4.1.10734.3.3.2.7.2.1.6	The transmission protocol of a blocked connection. • 1: ICMP • 2: UDP • 3: TCP • 4: other IP • 5: ARP • 6: other ETH • 7: ICMP v6 • 8: other IPV6

Object	OID	Description
connectionBlockPort	1.3.6.1.4.1.10734.3.3.2.7.2.1.7	The segment on which the incoming data caused the connection to be blocked.
connectionBlockReason	1.3.6.1.4.1.10734.3.3.2.7.2.1.8	The UUID of the signature that caused the block.
connectionBlockSrcAddrV6	1.3.6.1.4.1.10734.3.3.2.7.2.1.9	The source IPv6 address of a blocked connection.
connectionBlockDestAddrV6	1.3.6.1.4.1.10734.3.3.2.7.2.1.10	The destination IPv6 address of a blocked connection.
connectionBlockTotalCount	1.3.6.1.4.1.10734.3.3.2.7.3	The total number of connections corresponding to blocked streams. Only the first 50 are included in the connection block table.

Rate limit streams table

The following table lists connections that have been rate-limited.

Object	OID	Description
rateLimitStreamTable	1.3.6.1.4.1.10734.3.3.2.7.4	Table of connections that correspond to rate-limited streams.
rateLimitStreamEntry	1.3.6.1.4.1.10734.3.3.2.7.4.1	An entry in the rate-limited stream table. Rows cannot be added or deleted.
rateLimitStreamIndex	1.3.6.1.4.1.10734.3.3.2.7.4.1.1	The index number of the entry in the rate-limited stream table.

Object	OID	Description
rateLimitStreamSrcAddr	1.3.6.1.4.1.10734.3.3.2.7.4.1.2	The source IPv4 address of a rate-limited stream.
rateLimitStreamSrcPort	1.3.6.1.4.1.10734.3.3.2.7.4.1.3	The source port of a rate-limited stream.
rateLimitStreamDestAddr	1.3.6.1.4.1.10734.3.3.2.7.4.1.4	The destination IPv4 address of a rate-limited stream.
rateLimitStreamDestPort	1.3.6.1.4.1.10734.3.3.2.7.4.1.5	The destination port of a rate-limited stream.
rateLimitStreamProtocol	1.3.6.1.4.1.10734.3.3.2.7.4.1.6	The protocol of a rate-limited stream. • 1: ICMP • 2: UDP • 3: TCP • 4: other IP • 5: ARP • 6: other ETH • 7: ICMP v6 • 8: other IPV6
rateLimitStreamPort	1.3.6.1.4.1.10734.3.3.2.7.4.1.7	The segment on which the incoming data caused the connection to be rate-limited.
rateLimitStreamReason	1.3.6.1.4.1.10734.3.3.2.7.4.1.8	The UUID of the signature that caused the rate-limit.
rateLimitStreamSrcAddrV6	1.3.6.1.4.1.10734.3.3.2.7.4.1.9	The source IPv6 address of a rate-limited stream.

Object	OID	Description
rateLimitStreamDestAddrV6	1.3.6.1.4.1.10734.3.3.2.7.4.1.10	The destination IPv6 address of a rate-limited stream.
rateLimitStreamTotalCount	1.3.6.1.4.1.10734.3.3.2.7.5	The total number of connections corresponding to rate-limited streams. Only the first 50 are included in the rate limited stream table.

Connection trusts table

The following table lists trusted connections.

Object	OID	Description
connectionTrustTable	1.3.6.1.4.1.10734.3.3.2.7.6.2	Table of connections that correspond to trusted streams.
connectionTrustEntry	1.3.6.1.4.1.10734.3.3.2.7.6.2.1	An entry in the connection trust table. Rows cannot be added or deleted.
connectionTrustIndex	1.3.6.1.4.1.10734.3.3.2.7.6.2.1.1	The index number of the entry in the connection trust table.
connectionTrustSrcAddr	1.3.6.1.4.1.10734.3.3.2.7.6.2.1.2	The source IPv4 address of a trusted connection.
connectionTrustSrcPort	1.3.6.1.4.1.10734.3.3.2.7.6.2.1.3	The source port of a trusted connection.
connectionTrustDestAddr	1.3.6.1.4.1.10734.3.3.2.7.6.2.1.4	The destination IPv4 address of a trusted connection.

Object	OID	Description
connectionTrustDestPort	1.3.6.1.4.1.10734.3.3.2.7.6.2.1.5	The destination port of a trusted connection.
connectionTrustProtocol	1.3.6.1.4.1.10734.3.3.2.7.6.2.1.6	The protocol of a trusted connection. • 1: ICMP • 2: UDP • 3: TCP • 4: other IP • 5: ARP • 6: other ETH • 7: ICMP v6 • 8: other IPV6
connectionTrustPort	1.3.6.1.4.1.10734.3.3.2.7.6.2.1.7	The segment on which the incoming data caused the connection to be trusted.
connectionTrustReason	1.3.6.1.4.1.10734.3.3.2.7.6.2.1.8	The UUID of the signature that caused the trust.
connectionTrustSrcAddrV6	1.3.6.1.4.1.10734.3.3.2.7.6.2.1.9	The source IPv6 address of a trusted connection.
connectionTrustDestAddrV6	1.3.6.1.4.1.10734.3.3.2.7.6.2.1.10	The destination IPv6 address of a trusted connection.
connectionTrustTotalCount	1.3.6.1.4.1.10734.3.3.2.7.6.3	The total number of connections corresponding to trusted streams. Only the first 50 are included in the connection trust table.

Using HP Network Node Manager i with MIBs

HP Network Node Manager i (NNMi) is a well-known commercial network management system. Much of this information can be transposed onto other network management systems.

This topic focuses on adding enterprise MIB monitoring and reporting to NNMi. The examples in this topic were created on NNMi running on Windows XP Professional Service Pack 1.

Note: To perform the procedures in this topic, you must have installed NNMi. Refer to the NNMi documentation for more information about that product.

This topic includes the following:

- [Loading TippingPoint Enterprise MIBs](#) on page 74
- [MIB Application Builder](#) on page 74
- [Discovering the device](#) on page 75
- [Creating graphs with Application Builder](#) on page 76

Loading TippingPoint Enterprise MIBs

Before you begin, you must configure NNMi to understand the TippingPoint Enterprise MIBs.

1. In the NNMi Root Map, select the **Options** menu.
2. Select **Load/Unload MIBs: SNMP**.
3. Load **TIPPINGPOINT-REG-MIB**.
4. Load the remaining TPT MIBs in any order. NNMi might prompt you when loading the MIBs to add a macro definition. This is normal behavior, and you should accept the MIB.

MIB Application Builder

NNMi includes a tool called MIB Application Builder that allows you to build custom applications that retrieve data using SNMP and to retrieve any information stored in a MIB.

1. Select **Options => MIB Application Builder: SNMP**. The **MIB Application Builder: SNMP** dialog box displays.
2. Select **Edit => New item**. The application prompts you with three fields: Application ID, Application Type and Application Title.
 - Enter 111 for the **Application ID**.
 - Leave the Application Type as Form.

- Enter an **Application Title**.
- 3. Select the MIB Objects that have the information that you want to view.
- 4. Click **Next**. The **MIB Application Builder / Add MIB Objects** screen displays.
- 5. In the navigation tree, locate **iso.org.dod.internet.private.enterprises**. You are now at the start of the IPS MIBs.
- 6. In the tree, select the variables that you want to monitor and click **Add**. Click **Close** to return to the previous screen.
- 7. Depending on how you added the objects, you might need to reorder them. You can reorder the variables by using the Up and Down arrows in the **New MIB Application - Display Fields** form.
- 8. Click **Next** to continue to the **New MIB Application - NMN Integration** dialog screen.
- 9. Enter `TippingPoint` after `Configuration->`. The line should appear as **Configuration->TippingPoint** under **Menu Location**. This creates a menu item under the Configuration menu on the main screen.
- 10. You can select an object on the map. Select **Configuration** from the menu and retrieve the information you created if the device is a TippingPoint device.
- 11. Close the **MIB Application Builder** dialog box.

Discovering the device

By default, NNMi automatically discovers devices as they arrive on the network. This form of discovery can be a slow process and might not display devices for days (depending on the size of your network). To expedite that process, use the `loadhosts` command.

1. Open your text editor and create a file named `hosts`.
2. In the file, enter the IP address of your device and the hostname. This format is similar to the UNIX / etc/hosts file format. For example, you might enter the following information:

```
192.168.65.20 nds10
```

3. Save the file and open a command shell.
4. Run the `loadhosts` command on the file. The command takes the network mask and the file as arguments. For example:

```
loadhosts -m 255.255.255.0 hosts
```

After you run the `loadhosts` command, the device is now discovered by NNMi. When you open the Internet icon on your NNMi map, a green square displays. This icon should be your device or devices. Select this icon and choose **Configuration** from the menu bar to view the device.

NNMi has a number of built-in applications that can retrieve data from standard MIBs. For example, when you open the device configuration, all of the Ethernet interfaces associated with that device are displayed. When you right-click on the interface and choose **Interface Properties**, information for that interface is displayed.

Creating graphs with Application Builder

You can create an application to graph the data with the MIB Application Builder tool.

1. Select the Application Builder from the Options menu.
2. Open your existing applications and double-click to edit.
3. Change the **Application Type** from a **Form** to a **Graph**.
4. Set **10** as the Poll Interval and **abc** as the Y-axis label. You can change these settings to fit your needs.
5. To generate the graph for your device, select the IPS green square. Choose **TippingPoint** from the Configuration menu. A graph displays for the device. Allow the graph to run about 30 seconds to begin trending the data.

