PHION-MIB Field Descriptions

https://campus.barracuda.com/doc/95259178/

See below for a description of all available information in the MIB file of the Barracuda CloudGen Firewall. The CloudGen Firewall uses the SNMP fields in the /usr/share/snmp/mibs/PHION-MIB.txt file.

Click here to download the PHION-MIB.txt file.

Display CloudGen Firewall Reports

The Barracuda CloudGen Firewall reports in the Enterprise node (1.3.6.1.4.1). The exact node is phion (10704), with a subnode firewall (1).

On the command line, enter: `snmpwalk -v2c -c<community> <management_ip> 1.3.6.1.4.1.10704.1`

SNMP Fields Descriptions

Box Services

Description: Reports all box services on the box.

Node ID: 1.3.6.1.4.1.10704.1.0

PHION-MIB group label: **boxServices**

PHION-MIB Fields

Name	Type	Description	Possible Values

boxServiceName	DisplayString (64)	Service label	log, bdns, bsms, dist, boxfw, bsnmp, cstat, event, phibs, qstat, bsyslog, control, logwrap, psyslog, boxconfig, ...
boxServiceState	Integer32	Service status	0 : down 1 : up, 2 : block, 3 : wild, 4 : removed

Server Services

Description: Reports all server(s) services on the box.

Node ID: 1.3.6.1.4.1.10704.1.1

PHION-MIB group label: **serverServices**

PHiON-MIB fields

Name	Type	Description	Possible Values
serverServiceName	DisplayString (64)	Service label	S1_VPN, S1_HTTP, S1_NGFW, S2_VPN, ...
serverServiceState	Integer32	Service status	0 : down 1 : up, 2 : block, 3 : wild, 4 : removed

Phion Release

Description: Reports the current base version of the system.

Node ID: 1.3.6.1.4.1.10704.1.2

PHION-MIB group: **phionRelease**

PHiON-MIB Fields

Name	Type	Description	Possible Values
phionRelease	DisplayString	Current release version	GWAY-7.0.0-092.nightbuild, ...

Phion Hotfixes

Description: Reports all hotfixes applied on the box.

Node ID: 1.3.6.1.4.1.10704.1.3

PHION-MIB group: **phionHotfixes**

PHiON-MIB Fields

Name	Type	Description	Possible Values
hotfixName	DisplayString (64)	Hotfixes applied on top of the base version	-
hotfixInstallTime	DateAndTime	The date the hotfix was applied	-

Hardware Sensors

Available only for Barracuda CloudGen Firewall F-Series hardware models.

Description: Reports hardware-related values: fan speeds, temperatures, power supply information.

Node ID: 1.3.6.1.4.1.10704.1.4

PHION-MIB group: **hwSensors**

PHiON-MIB Fields

Name	Type	Description	Possible Values
hwSensorName	DisplayString (64)	Sensor label	CPU-Temperature, Mainboard-Temperature, SouthBridge-Temperature, CPU-Fan, Chassis-Fan, PSU name (PSU1,PSU2,...)
hwSensorType	Integer32	Sensor type	temp, fan, psu-status
hwSensorValue	Integer32	Value	-

RAID Events

Description: Reports events related to RAID system.

Node ID: 1.3.6.1.4.1.10704.1.5

PHION-MIB group: **raidEvents**

PHiON-MIB Fields

Name	Type	Description	Possible Values
raidEventIndex	Integer32	Event ID	-
raidEventSev	RaidEventSeverity	Type of event	0 : unknown, 1 : error, 2 : warning, 3 : information, 4: debug
raidEventTime	DateAndTime	Date of event	-
raidEventText	DisplayString	Description	-

VPN Tunnels

Description: Reports all active site-to-site and client-to-site VPN tunnels established on the firewall.

Node ID: 1.3.6.1.4.1.10704.1.6

PHION-MIB group: **vpnTunnels**

PHiON-MIB Fields

Name	Type	Description	Possible Values
vpnName	DisplayString (64)	Tunnel name	IPSEC-Wien2Inn-5.5.5.0-8.8.8.0, ...
vpnState	Integer32	Tunnel status	-1 : down, 0 : down-disabled, 1 : active

For IKEv2 VPN tunnels, the OID will include the SA of the tunnel, which changes periodically. In order to avoid mismatches, remove the last three digits of the OID, for example: If the OID ends with .123.51.49.52, remove .51.49.52

BGP Neighbors

Description: Reports neighbor routers identified through BGP.

Node ID: 1.3.6.1.4.1.10704.1.7

PHION-MIB group: **bgpNeighbors**

PHiON-MIB Fields

Name	Type	Description	Possible Values
bgpNeighborAddress	DisplayString (64)	Next hop	-
bgpNeighborState	Integer32	Status	Established, ...

OSPF Neighbors

Description: Reports neighbor routers identified through OSPF.

Node ID: 1.3.6.1.4.1.10704.1.8

PHION-MIB group: **ospfNeighbors**

PHiON-MIB Fields

Name	Type	Description	Possible Values
ospfNeighborId	DisplayString	IP address of the neighbor router	192.168.45.1, ...
ospfNeighborAddress	DisplayString	Entry interface IP address	10.0.0.1, ...
ospfNeighborInterface	DisplayString	Entry interface label	eth0, ...
ospfNeighborStatus	DisplayString	Link status	FULL/DR, FULL/BDR, FULL/DROTHER, ...

RIP Neighbors

Description: Reports next-hops identified through RIP.

Node ID: 1.3.6.1.4.1.10704.1.9

PHION-MIB group: **ripNeighbors**

PHiON-MIB Fields

Name	Type	Description	Possible Values
ripNeighborAddress	DisplayString	IP address to next-hop	10.0.0.1, ...
ripNeighborState	DisplayString	Link status	R : RIP, C : connected, S : Static, O : OSPF, B : BGP

Firewall Stats

Description: Reports firewall traffic general stats.

Node ID: 1.3.6.1.4.1.10704.1.10

PHION-MIB group: **fwStats**

PHiON-MIB Fields

Name	Type	Description	Possible Values
firewallSessions	Integer32	Number of live firewall sessions	12
packetThroughput	Integer32	Number of live packets/second	34
dataThroughput	Integer32	Data throughput in bytes/second	82080
firewallSessions64	Counter64	Number of live firewall sessions	12
packetThroughput64	Counter64	Number of live packets/second	34
dataThroughput64	Counter64	Data throughput in bytes/second	82080

Concurrent VPN Users Online

Description: Reports number of concurrent VPN users (active number of client-to-site VPN tunnels).

Node ID: 1.3.6.1.4.1.10704.1.11

PHION-MIB group: **vpnUsers**

PHiON-MIB Fields

Name	Type	Description	Possible Values
vpnUsers	Integer32	Number of live client-to-site VPN tunnels	12

Traffic Shaping

When using SNMP version 1, only the connectorName can be queried.

Description: Reports the traffic shaping usage (rate, total bytes, total packets and dropped packets per class, and in- and out-bound connector).

Node ID: 1.3.6.1.4.1.10704.1.12

PHION-MIB group: **trafficShape**

PHION-MIB Fields

Name	Type	Description	Possible Values
connectorName	DisplayString	Name of the connector	*eth0:low:IN* or *eth0:low:OUT*
rate	Counter64	The rate in kbit/sec	0 - 18446744073709551615
sessions	Counter64	Nummer of sessions	0 - 18446744073709551615
class1Total	Counter64	Total bytes for class1	0 - 18446744073709551615
class1Pakets	Counter64	Total packets for class1	0 - 18446744073709551615
class1Drop	Counter64	Dropped packets for class1	0 - 18446744073709551615
class2Total	Counter64	Total bytes for class2	0 - 18446744073709551615
class2Pakets	Counter64	Total packets for class2	0 - 18446744073709551615
class2Drop	Counter64	Dropped packets for class3	0 - 18446744073709551615
class3Total	Counter64	Total bytes for class3	0 - 18446744073709551615
class3Pakets	Counter64	Total packets fo class3	0 - 18446744073709551615
class3Drop	Counter64	Dropped packets for class3	0 - 18446744073709551615
noDelayTotal	Counter64	Total bytes for no delay	0 - 18446744073709551615
noDelayPakets	Counter64	Total packets for no delay	0 - 18446744073709551615
noDelayDrop	Counter64	Dropped packets for no delay	0 - 18446744073709551615

Disk Space

Description: Reports the size, the currently used space and remaining free space in kilobytes, and the used space in percent of the disk partition.

Node ID: 1.3.6.1.4.1.10704.1.13

PHION-MIB group label: **diskSpace**

PHION-MIB Fields

Name	Type	Description	Possible Values

partitionName	DisplayString	Disk partition name	/, /art, /boot, /phion0
partitionMaxSpace	Counter64	Size of partition in kilobytes	0 - 18446744073709551615
partitionFreeSpace	Counter64	Free space on partition in kilobytes	0 - 18446744073709551615
partitionUsedSpace	Counter64	Used space on the partition in kilobytes	0 - 18446744073709551615
partitionUsedSpacePercent	Integer32	Used space on the partition in percent	0 - 100

Licensing

Description: Licenses with status and days until expiration.

Node ID: 1.3.6.1.4.1.10704.1.14

PHION-MIB group label: **licenses**

PHION-MIB Fields

Name	Type	Description	Possible Values
licenseName	DisplayString (64)	Name of the license	-
licenseState	Integer32	State of the license	1: OK 2: Grace 3: Expired
licenseExpiration	Integer32	Days until license expiration	-

Protected IPs

Description: Number of protected IPs.

Node ID: 1.3.6.1.4.1.10704.1.15

PHION-MIB group label: **protectedIP**

PHION-MIB Fields

Name	Type	Description	Possible Values
protectedIP	Counter64	Number of protected IPs	-

Certificates

Description: expiration date for certificates. Only certificates in the certificate store are taken into account.

Node ID: 11.3.6.1.4.1.10704.1.16

PHION-MIB group label: **certificates**

PHION-MIB Fields

Name	Type	Description	Possible Values
certificateName	DisplayString (64)	Name of certificate	-
certificateExpiration	DateAndTime	Expiration date for a certificate	-

Events

It is possible to configure the CloudGen Firewall to send SNMP traps for important Events. For more details see How to Configure Basic, Severity, and Notification Settings for Events.

The SNMP trap messages contain the following fields under OID 1.3.6.1.4.1.10704.10

PHION-MIB Fields

Name	Type	Description	Possible Values
eventID	Integer32	Event ID	1 - 5005
eventIDDescription	DisplayString	Description	-
eventType	Integer32	Type of event notification	-
eventAlarmTime	DateAndTime	Event alarm time	-
eventLayerDescription	DisplayString	Description	-
eventClassification	Integer32	Classification	0, 1
eventRepresentation	Integer32	Representation	-
eventSeverity	Integer32	Event Severity	1 : information, 2: warning, 3 : error, 6 : notice, 7 : warning, 8 security, 9: information

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