

PHION-MIB Field Descriptions

<https://campus.barracuda.com/doc/48202809/>

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

```
PHION-MIB DEFINITIONS ::= BEGIN
    IMPORTS
        MODULE-COMPLIANCE, OBJECT-GROUP, NOTIFICATION-GROUP FROM SNMPv2-CONF
        OBJECT-TYPE, MODULE-IDENTITY, NOTIFICATION-TYPE, Integer32,
enterprises, Counter64 FROM SNMPv2-SMI
        TEXTUAL-CONVENTION, DisplayString, DateAndTime FROM SNMPv2-TC;

    phion MODULE-IDENTITY
        LAST-UPDATED "201401080000Z"
        ORGANIZATION
            "Barracuda Networks"
        CONTACT-INFO
            "http://www.barracuda.com"
        DESCRIPTION
            ". ."

        -- Revision log
        REVISION      "201401080000Z"
        DESCRIPTION
            "insert OBJECT-GROUPS"

        REVISION      "201401070000Z"
        DESCRIPTION
            "Removed syntax errors"

        REVISION      "201312030000Z"
        DESCRIPTION
            "Removed errors and warnings"
        ::= { enterprises 10704 }

-- Event
    event OBJECT IDENTIFIER ::= { phion 10 }

-- Firewall
    firewall OBJECT IDENTIFIER ::= { phion 1 }

    fwCompliances OBJECT IDENTIFIER ::= { phion 20 }
    fwGroups OBJECT IDENTIFIER ::= { phion 21 }
```

```
fwCompliance MODULE-COMPLIANCE
  STATUS current
  DESCRIPTION
    "Firewall Info Groups"
  MODULE
    GROUP boxGroup
      DESCRIPTION " "
    GROUP serverGroup
      DESCRIPTION " "
    GROUP releaseGroup
      DESCRIPTION " "
    GROUP hotfixGroup
      DESCRIPTION " "
    GROUP hwGroup
      DESCRIPTION " "
    GROUP raidGroup
      DESCRIPTION " "
    GROUP vpnGroup
      DESCRIPTION " "
    GROUP bgpGroup
      DESCRIPTION " "
    GROUP ospfGroup
      DESCRIPTION " "
    GROUP ripGroup
      DESCRIPTION " "
    GROUP fwstatsGroup
      DESCRIPTION " "
    GROUP vpnusersGroup
      DESCRIPTION " "
    GROUP trafficshapeGroup
      DESCRIPTION " "
    GROUP diskspaceGroup
      DESCRIPTION " "
    GROUP eventGroup
      DESCRIPTION " "
    GROUP notificationGroup
      DESCRIPTION " "
    ::= { fwCompliances 1 }

serviceGroups OBJECT IDENTIFIER ::= { fwGroups 1 }
firmwareGroups OBJECT IDENTIFIER ::= { fwGroups 2 }
hwGroups OBJECT IDENTIFIER ::= { fwGroups 3 }
netGroups OBJECT IDENTIFIER ::= { fwGroups 4 }
eventGroups OBJECT IDENTIFIER ::= { fwGroups 5 }

-- Textual Conventions
```

```
ServiceState ::= TEXTUAL-CONVENTION
  STATUS current
  DESCRIPTION
    "The state a box service be in."
  SYNTAX INTEGER {
    unknown(-1),
    stopped(0),
    started(1),
    blocked(2),
    removed(4)
  }

SensorType ::= TEXTUAL-CONVENTION
  STATUS current
  DESCRIPTION
    "The types of sensors."
  SYNTAX INTEGER {
    unknown(-1),
    voltage(0),
    fan(1),
    temperature(2),
    psu-status(3)
  }

RaidEventSeverity ::= TEXTUAL-CONVENTION
  STATUS current
  DESCRIPTION
    "The values of raid event severity."
  SYNTAX INTEGER {
    unknown(0),
    error(1),
    warning(2),
    information(3),
    debug(4)
  }

VpnStates ::= TEXTUAL-CONVENTION
  STATUS current
  DESCRIPTION
    "The states of the VPN tunnel"
  SYNTAX INTEGER {
    down(-1),
    down-disabled(0),
    active(1)
  }
```

```
-- boxServices
  boxServices OBJECT-TYPE
    SYNTAX      SEQUENCE OF BoxServicesEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
      " "
    ::= { firewall 0 }

  boxServicesEntry OBJECT-TYPE
    SYNTAX      BoxServicesEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
      " "
    INDEX { boxServiceName }
    ::= { boxServices 1 }

  BoxServicesEntry ::= SEQUENCE {
    boxServiceName DisplayString,
    boxServiceState ServiceState
  }

  boxServiceName OBJECT-TYPE
    SYNTAX DisplayString (SIZE (0..63))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
      " "
    ::= { boxServicesEntry 1 }

  boxServiceState OBJECT-TYPE
    SYNTAX ServiceState
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
      " "
    ::= { boxServicesEntry 2 }

  boxGroup OBJECT-GROUP
    OBJECTS {
      boxServiceName,
      boxServiceState
    }
    STATUS current
    DESCRIPTION " "
```

```
 ::= { serviceGroups 1 }

-- serverServices
serverServices OBJECT-TYPE
    SYNTAX      SEQUENCE OF ServerServicesEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        " "
    ::= { firewall 1 }

serverServicesEntry OBJECT-TYPE
    SYNTAX      ServerServicesEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        " "
    INDEX { serverServiceName }
    ::= { serverServices 1 }

ServerServicesEntry ::= SEQUENCE {
    serverServiceName  DisplayString,
    serverServiceState  ServiceState
}

serverServiceName OBJECT-TYPE
    SYNTAX DisplayString (SIZE (0..63))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        " "
    ::= { serverServicesEntry 1 }

serverServiceState OBJECT-TYPE
    SYNTAX ServiceState
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        " "
    ::= { serverServicesEntry 2 }

serverGroup OBJECT-GROUP
    OBJECTS {
        serverServiceName,
        serverServiceState
    }
}
```

```
STATUS current
DESCRIPTION " "
 ::= { serviceGroups 2 }

-- phionRelease
phionRelease OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 " "
 ::= { firewall 2 }

releaseGroup OBJECT-GROUP
OBJECTS {
 phionRelease
}
STATUS current
DESCRIPTION " "
 ::= { firmwareGroups 1 }

-- phionHotfixes
phionHotfixes OBJECT-TYPE
SYNTAX SEQUENCE OF PhionHotfixesEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
 " "
 ::= { firewall 3 }

phionHotfixesEntry OBJECT-TYPE
SYNTAX PhionHotfixesEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
 " "
INDEX { hotfixName }
 ::= { phionHotfixes 1 }

PhionHotfixesEntry ::= SEQUENCE {
 hotfixName DisplayString,
 hotfixInstallTime DateAndTime
}

hotfixName OBJECT-TYPE
SYNTAX DisplayString (SIZE (0..63))
```

```
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    " "
    ::= { phionHotfixesEntry 1 }

hotfixInstallTime OBJECT-TYPE
SYNTAX DateAndTime
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    " "
    ::= { phionHotfixesEntry 2 }

hotfixGroup OBJECT-GROUP
OBJECTS {
    hotfixName,
    hotfixInstallTime
}
STATUS current
DESCRIPTION " "
::= { firmwareGroups 2 }

-- hwSensors
hwSensors OBJECT-TYPE
SYNTAX SEQUENCE OF HwSensorsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    " "
    ::= { firewall 4 }

hwSensorsEntry OBJECT-TYPE
SYNTAX HwSensorsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    " "
INDEX { hwSensorName }
::= { hwSensors 1 }

HwSensorsEntry ::= SEQUENCE {
    hwSensorName DisplayString,
    hwSensorType SensorType,
    hwSensorValue Integer32
}
```

```
hwSensorName OBJECT-TYPE
    SYNTAX DisplayString (SIZE (0..63))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        " "
    ::= { hwSensorsEntry 1 }

hwSensorType OBJECT-TYPE
    SYNTAX SensorType
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        " "
    ::= { hwSensorsEntry 2 }

hwSensorValue OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        " "
    ::= { hwSensorsEntry 3 }

hwGroup OBJECT-GROUP
    OBJECTS {
        hwSensorName,
        hwSensorType,
        hwSensorValue
    }
    STATUS current
    DESCRIPTION " "
    ::= { hwGroups 1 }

-- raidEvents
raidEvents OBJECT-TYPE
    SYNTAX SEQUENCE OF RaidEventsEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        " "
    ::= { firewall 5 }

raidEventsEntry OBJECT-TYPE
    SYNTAX RaidEventsEntry
    MAX-ACCESS not-accessible
```



```
STATUS      current
DESCRIPTION
    " "
INDEX { raidEventIndex }
::= { raidEvents 1 }

RaidEventsEntry ::= SEQUENCE {
    raidEventIndex Integer32,
    raidEventSev RaidEventSeverity,
    raidEventTime DateAndTime,
    raidEventText DisplayString
}

raidEventIndex OBJECT-TYPE
    SYNTAX Integer32 (0..2147483647)
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        " "
    ::= { raidEventsEntry 1 }

raidEventSev OBJECT-TYPE
    SYNTAX RaidEventSeverity
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        " "
    ::= { raidEventsEntry 2 }

raidEventTime OBJECT-TYPE
    SYNTAX DateAndTime
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        " "
    ::= { raidEventsEntry 3 }

raidEventText OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        " "
    ::= { raidEventsEntry 4 }

raidGroup OBJECT-GROUP
```

```
OBJECTS {
    raidEventIndex,
    raidEventSev,
    raidEventTime,
    raidEventText
}
STATUS current
DESCRIPTION " "
::= { hwGroups 2 }

-- vpnTunnels
vpnTunnels OBJECT-TYPE
    SYNTAX          SEQUENCE OF VpnTunnelsEntry
    MAX-ACCESS      not-accessible
    STATUS          current
    DESCRIPTION
        " "
    ::= { firewall 6 }

vpnTunnelsEntry OBJECT-TYPE
    SYNTAX          VpnTunnelsEntry
    MAX-ACCESS      not-accessible
    STATUS          current
    DESCRIPTION
        " "
    INDEX { vpnName }
    ::= { vpnTunnels 1 }

VpnTunnelsEntry ::= SEQUENCE {
    vpnName DisplayString,
    vpnState VpnStates
}

vpnName OBJECT-TYPE
    SYNTAX DisplayString (SIZE (0..63))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        " "
    ::= { vpnTunnelsEntry 1 }

vpnState OBJECT-TYPE
    SYNTAX VpnStates
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
```

```
    " "
    ::= { vpnTunnelsEntry 2 }

vpnGroup OBJECT-GROUP
  OBJECTS {
    vpnName,
    vpnState
  }
  STATUS current
  DESCRIPTION " "
  ::= { netGroups 1 }

-- bgpNeighbors
  bgpNeighbors OBJECT-TYPE
    SYNTAX      SEQUENCE OF BgpNeighborsEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
      " "
    ::= { firewall 7 }

  bgpNeighborsEntry OBJECT-TYPE
    SYNTAX      BgpNeighborsEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
      " "
    INDEX { bgpNeighborAddress }
    ::= { bgpNeighbors 1 }

  BgpNeighborsEntry ::= SEQUENCE {
    bgpNeighborAddress DisplayString,
    bgpNeighborState Integer32
  }

  bgpNeighborAddress OBJECT-TYPE
    SYNTAX      DisplayString (SIZE (0..63))
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      " "
    ::= { bgpNeighborsEntry 1 }

  bgpNeighborState OBJECT-TYPE
    -- SYNTAX NeighborState
    SYNTAX      Integer32
```

```
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    " "
 ::= { bgpNeighborsEntry 2 }

bgpGroup OBJECT-GROUP
OBJECTS {
    bgpNeighborAddress,
    bgpNeighborState
}
STATUS current
DESCRIPTION " "
 ::= { netGroups 2 }

-- ospfNeighbors
ospfNeighbors OBJECT-TYPE
SYNTAX SEQUENCE OF OspfNeighborsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    " "
 ::= { firewall 8 }

ospfNeighborsEntry OBJECT-TYPE
SYNTAX OspfNeighborsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    " "
INDEX { ospfNeighborId }
 ::= { ospfNeighbors 1 }

OspfNeighborsEntry ::= SEQUENCE {
    ospfNeighborId DisplayString,
    ospfNeighborAddress DisplayString,
    ospfNeighborInterface DisplayString,
    ospfNeighborStatus DisplayString
}

ospfNeighborId OBJECT-TYPE
SYNTAX DisplayString (SIZE (0..63))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
```

```
    " "
    ::= { ospfNeighborsEntry 1 }

ospfNeighborAddress OBJECT-TYPE
    SYNTAX DisplayString (SIZE (0..63))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        " "
    ::= { ospfNeighborsEntry 2 }

ospfNeighborInterface OBJECT-TYPE
    SYNTAX DisplayString (SIZE (0..63))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        " "
    ::= { ospfNeighborsEntry 3 }

ospfNeighborStatus OBJECT-TYPE
    SYNTAX DisplayString (SIZE (0..63))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        " "
    ::= { ospfNeighborsEntry 4 }

ospfGroup OBJECT-GROUP
    OBJECTS {
        ospfNeighborId,
        ospfNeighborAddress,
        ospfNeighborInterface,
        ospfNeighborStatus
    }
    STATUS current
    DESCRIPTION " "
    ::= { netGroups 3 }

-- ripNeighbors
ripNeighbors OBJECT-TYPE
    SYNTAX SEQUENCE OF RipNeighborsEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        " "
    ::= { firewall 9 }
```

```
ripNeighborsEntry OBJECT-TYPE
    SYNTAX      RipNeighborsEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        " "
    INDEX { ripNeighborAddress }
    ::= { ripNeighbors 1 }

RipNeighborsEntry ::= SEQUENCE {
    ripNeighborAddress DisplayString,
    ripNeighborState DisplayString
}

ripNeighborAddress OBJECT-TYPE
    SYNTAX DisplayString (SIZE (0..63))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        " "
    ::= { ripNeighborsEntry 1 }

ripNeighborState OBJECT-TYPE
    SYNTAX DisplayString (SIZE (0..63))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        " "
    ::= { ripNeighborsEntry 2 }

ripGroup OBJECT-GROUP
    OBJECTS {
        ripNeighborAddress,
        ripNeighborState
    }
    STATUS current
    DESCRIPTION " "
    ::= { netGroups 4 }

-- fwStats
fwStats OBJECT-TYPE
    SYNTAX      SEQUENCE OF FwStatsEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        " "
```

```
 ::= { firewall 10 }

fwStatsEntry OBJECT-TYPE
    SYNTAX      FwStatsEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        " "
    INDEX { firewallSessions }
    ::= { fwStats 1 }

FwStatsEntry ::= SEQUENCE {
    firewallSessions Integer32,
    packetThroughput Integer32,
    dataThroughput Integer32
}

firewallSessions OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        " "
    ::= { fwStatsEntry 1 }

packetThroughput OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        " "
    ::= { fwStatsEntry 2 }

dataThroughput OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        " "
    ::= { fwStatsEntry 3 }

fwstatsGroup OBJECT-GROUP
    OBJECTS {
        firewallSessions,
        packetThroughput,
        dataThroughput
```

```
    }
    STATUS current
    DESCRIPTION " "
    ::= { hwGroups 3 }

-- vpnUsers
vpnUsers OBJECT-TYPE
    SYNTAX      Integer32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        " "
    ::= { firewall 11 }

vpnusersGroup OBJECT-GROUP
    OBJECTS {
        vpnUsers
    }
    STATUS current
    DESCRIPTION " "
    ::= { netGroups 5 }

-- trafficShape
trafficShape OBJECT-TYPE
    SYNTAX      SEQUENCE OF TrafficShapeEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        " "
    ::= { firewall 12 }

trafficShapeEntry OBJECT-TYPE
    SYNTAX      TrafficShapeEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        " "
    INDEX { connectorName }
    ::= { trafficShape 1 }

TrafficShapeEntry ::= SEQUENCE {
    connectorName DisplayString,
    rate Counter64,
    sessions Counter64,
    class1Total Counter64,
    class1Pakets Counter64,
    class1Drop Counter64,
```



```
class2Total Counter64,  
class2Pakets Counter64,  
class2Drop Counter64,  
class3Total Counter64,  
class3Pakets Counter64,  
class3Drop Counter64,  
noDelayTotal Counter64,  
noDelayPakets Counter64,  
noDelayDrop Counter64  
}  
  
connectorName OBJECT-TYPE  
    SYNTAX DisplayString (SIZE (0..63))  
    MAX-ACCESS read-only  
    STATUS current  
    DESCRIPTION  
        "Name of shaping connector. With :IN for inbound and :OUT for  
outbound"  
    ::= { trafficShapeEntry 1 }  
  
rate OBJECT-TYPE  
    SYNTAX Counter64  
    MAX-ACCESS read-only  
    STATUS current  
    DESCRIPTION  
        "Rate in kbit/sec"  
    ::= { trafficShapeEntry 2 }  
  
sessions OBJECT-TYPE  
    SYNTAX Counter64  
    MAX-ACCESS read-only  
    STATUS current  
    DESCRIPTION  
        "Number of sessions"  
    ::= { trafficShapeEntry 3 }  
class1Total OBJECT-TYPE  
    SYNTAX Counter64  
    MAX-ACCESS read-only  
    STATUS current  
    DESCRIPTION  
        "Total bytes for class1"  
    ::= { trafficShapeEntry 4 }  
  
class1Pakets OBJECT-TYPE  
    SYNTAX Counter64  
    MAX-ACCESS read-only
```

```
STATUS current
DESCRIPTION
    "Total packets for class1"
    ::= { trafficShapeEntry 5 }
class1Drop OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Dropped packets for class1"
    ::= { trafficShapeEntry 6 }

class2Total OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Total bytes for class2"
    ::= { trafficShapeEntry 7 }

class2Pakets OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Total packets for class2"
    ::= { trafficShapeEntry 8 }
class2Drop OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Dropped packets for class2"
    ::= { trafficShapeEntry 9 }
class3Total OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Total bytes for class3"
    ::= { trafficShapeEntry 10 }

class3Pakets OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
```

```
DESCRIPTION
    "Total packets for class3"
    ::= { trafficShapeEntry 11 }
class3Drop OBJECT-TYPE
    SYNTAX Counter64
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Dropped packets for class3"
        ::= { trafficShapeEntry 12 }
noDelayTotal OBJECT-TYPE
    SYNTAX Counter64
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Total bytes for no delay"
        ::= { trafficShapeEntry 13 }

noDelayPakets OBJECT-TYPE
    SYNTAX Counter64
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Total packets for no delay"
        ::= { trafficShapeEntry 14 }
noDelayDrop OBJECT-TYPE
    SYNTAX Counter64
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Dropped packets for no delay"
        ::= { trafficShapeEntry 15 }
trafficshapeGroup OBJECT-GROUP
    OBJECTS {
        connectorName,
        rate,
        sessions,
        class1Total,
        class1Pakets,
        class1Drop,
        class2Total,
        class2Pakets,
        class2Drop,
        class3Total,
        class3Pakets,
        class3Drop,
```

```
        noDelayTotal,  
        noDelayPackets,  
        noDelayDrop  
    }  
    STATUS current  
    DESCRIPTION " "  
    ::= { hwGroups 4 }  
  
-- diskSpace  
diskSpace OBJECT-TYPE  
    SYNTAX      SEQUENCE OF DiskSpaceEntry  
    MAX-ACCESS  not-accessible  
    STATUS      current  
    DESCRIPTION  
        " "  
    ::= { firewall 13 }  
  
diskSpaceEntry OBJECT-TYPE  
    SYNTAX      DiskSpaceEntry  
    MAX-ACCESS  not-accessible  
    STATUS      current  
    DESCRIPTION  
        " "  
    INDEX { partitionName }  
    ::= { diskSpace 1 }  
  
DiskSpaceEntry ::= SEQUENCE {  
    partitionName DisplayString,  
    partitionMaxSpace Counter64,  
    partitionFreeSpace Counter64,  
    partitionUsedSpace Counter64,  
    partitionUsedSpacePercent Integer32  
}  
  
partitionName OBJECT-TYPE  
    SYNTAX DisplayString (SIZE (0..63))  
    MAX-ACCESS read-only  
    STATUS current  
    DESCRIPTION  
        "Name of the partition entry"  
    ::= { diskSpaceEntry 1 }  
  
partitionMaxSpace OBJECT-TYPE  
    SYNTAX Counter64  
    MAX-ACCESS read-only  
    STATUS current
```

```

DESCRIPTION
    "Maximum space of partition entry in KB"
    ::= { diskSpaceEntry 2 }

partitionFreeSpace OBJECT-TYPE
    SYNTAX Counter64
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Free space of partition entry in KB"
    ::= { diskSpaceEntry 3 }
partitionUsedSpace OBJECT-TYPE
    SYNTAX Counter64
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Used space of partition entry in KB"
    ::= { diskSpaceEntry 4 }
partitionUsedSpacePercent OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Used space of partition entry in %"
    ::= { diskSpaceEntry 5 }
diskspaceGroup OBJECT-GROUP
    OBJECTS {
        partitionName,
        partitionMaxSpace,
        partitionFreeSpace,
        partitionUsedSpace,
        partitionUsedSpacePercent
    }
    STATUS current
    DESCRIPTION " "
    ::= { hwGroups 5 }

-- Vars
eventID          OBJECT-TYPE
    SYNTAX        DisplayString      (SIZE (0..5))
    MAX-ACCESS    read-only
    STATUS        current
    DESCRIPTION   "Event ID"
    ::= { event 1 } -- 10704.10.1
eventIDDescription OBJECT-TYPE
    SYNTAX        DisplayString

```

```

    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION     "Event Type-Description"
    ::= { event 2 } -- 10704.10.2
eventType         OBJECT-TYPE
    SYNTAX         DisplayString      (SIZE (0..5))
    MAX-ACCESS     read-only
    STATUS        current
    DESCRIPTION    "Event Type"
    ::= { event 3 } -- 10704.10.3
eventAlarmTime   OBJECT-TYPE
    SYNTAX         DisplayString      (SIZE (0..24))
    MAX-ACCESS     read-only
    STATUS        current
    DESCRIPTION    "Event Alarm Time"
    ::= { event 4 } -- 10704.10.4
eventLayerDescription OBJECT-TYPE
    SYNTAX         DisplayString
    MAX-ACCESS     read-only
    STATUS        current
    DESCRIPTION    "Event Layer Description"
    ::= { event 5 } -- 10704.10.5
eventClassification OBJECT-TYPE
    SYNTAX         DisplayString
    MAX-ACCESS     read-only
    STATUS        current
    DESCRIPTION    "Event Classification"
    ::= { event 6 } -- 10704.10.6
eventRepresentation OBJECT-TYPE
    SYNTAX         DisplayString
    MAX-ACCESS     read-only
    STATUS        current
    DESCRIPTION    "Event Representation"
    ::= { event 7 } -- 10704.10.7
eventSeverity    OBJECT-TYPE
    SYNTAX         DisplayString
    MAX-ACCESS     read-only
    STATUS        current
    DESCRIPTION    "Event Severity"
    ::= { event 8 } -- 10704.10.8

eventGroup OBJECT-GROUP
    OBJECTS {
        eventID,
        eventIDDescription,
        eventType,

```

```

        eventAlarmTime,
        eventLayerDescription,
        eventClassification,
        eventRepresentation,
        eventSeverity
    }
    STATUS current
    DESCRIPTION " "
    ::= { eventGroups 1 }

--- TRAPS
    eventTrap          NOTIFICATION-TYPE
        OBJECTS        { eventID, eventIDDescription, eventType,
eventAlarmTime,
                        eventLayerDescription, eventClassification,
eventRepresentation, eventSeverity }
        STATUS         current
        DESCRIPTION    "Trap"
        REFERENCE      " "
        ::= { phion 11 }

    notificationGroup NOTIFICATION-GROUP
        NOTIFICATIONS {
            eventTrap
        }
        STATUS current
        DESCRIPTION " "
        ::= { eventGroups 2 }
END

```

The Barracuda NextGen Firewall F-Series reports in the Enterprise node (1.3.6.1.4.1). The exact node is phion (10704), with 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

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	STRING	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	Integer	Used space on the partition in percent	0 - 100

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
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hotfixName	DisplayString (64)	Hotfixes applied on top of base version	
hotfixInstallTime	DateAndTime	Date the hotfix was applied	

Hardware sensors

Available only for Barracuda NextGen 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	
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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 : denied, 0 : disabled, 1 : active, 4 : ready

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 (64)	IP address of neighbor router	192.168.45.1, ...
ospfNeighborAddress	DisplayString (64)	Entry interface IP address	10.0.0.1, ...
ospfNeighborInterface	DisplayString (64)	Entry interface label	eth0, ...
ospfNeighborStatus	DisplayString (64)	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 (64)	IP address to next hop	10.0.0.1, ...
ripNeighborState	DisplayString (64)	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
fwConcurrentSessions	Integer32	Number of live firewall sessions	12
fwPacketThroughput	Integer32	Number of live packets / second	34
fwDataThroughput	Integer32	Data throughput in bits / 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 (64)	Name of the connector	<i>eth0:low:IN or eth0:low:OUT</i>
rate	Counter64	Rate in kbit/sec	0 - 18446744073709551615
sessions	Counter64	Nummer of sessions	0 - 18446744073709551615
class1Total	Counter64	Total bytes for class1	0 - 18446744073709551615
class1Pakets	Counter64	Total pakets for class1	0 - 18446744073709551615
class1Drop	Counter64	Dropped pakets for class1	0 - 18446744073709551615
class2Total	Counter64	Total bytes for class2	0 - 18446744073709551615
class2Pakets	Counter64	Total pakets for class2	0 - 18446744073709551615
class2Drop	Counter64	Dropped pakets for class3	0 - 18446744073709551615
class3Total	Counter64	Total bytes for class3	0 - 18446744073709551615
class3Pakets	Counter64	Total pakets fo class3	0 - 18446744073709551615
class3Drop	Counter64	Dropped pakets for class3	0 - 18446744073709551615
noDelayTotal	Counter64	Total bytes for no delay	0 - 18446744073709551615
noDelayPakets	Counter64	Total pakets for no delay	0 - 18446744073709551615
noDelayDrop	Counter64	Dropped pakets for no delay	0 - 18446744073709551615

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