SECURITY code

Continent Enterprise Firewall
Version 4

SNMP

Administrator guide

Mailing address:	**115230, Russian Federation, Moscow, 1st Nagatinsky proezd 10/1**
Phone:	**+7 (495) 982-30-20**
E-mail:	**info@securitycode.ru**
Web:	**www.securitycode.ru**

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Introduction

This manual is designed for administrators of Continent Enterprise Firewall Enterprise Firewall, Version 4 (hereinafter — Continent).

This document contains links to documents [**1**] – [**3**].

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SNMP overview

SNMP (Simple Network Management Protocol) is a standard Internet protocol for network management. Using this protocol, you can perform a statistical network assessment over a long period of time and an extended analysis of its functioning over a short period of time.
SNMP is used to send requests and receive responses to monitor a network.

Security Gateway monitoring via SNMP

You can monitor Security Gateways using network object management tools via SNMP (versions v2 and v3). You can monitor the following parameters:

- operation time of a network device since it was started;
- the number of sent/received packets;
- interface state (Up/Down, etc.).

Attention!
SNMP module operates only in **GetRequest** mode.

Centralized management of SNMP parameters

You can manage SNMP parameters in the Configuration Manager.

Centralized management provides:

- access to Security Gateway monitoring;
- changing the monitoring system connection parameters via SNMP.

To manage Security Gateway centrally, SNMP uses Management Information Bases (MIB) that include object identifiers (OID). You can monitor Security Gateways via SNMP using:

- OID from standard MIBs;
- OID from CONTINENT-SNMP-MIB.

SNMP management system configuration

To configure access via SNMP, in the Configuration Manager, specify addresses for listening for SNMP requests and the Community name (SNMP v2), which is the password for this service, or the user name and the password (SNMP v3).

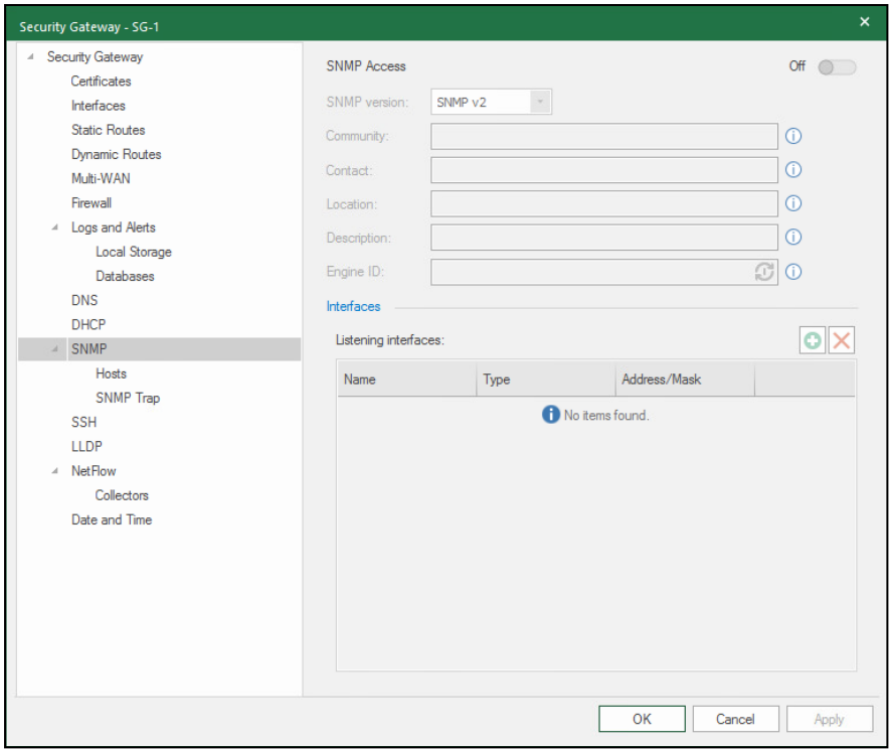
Note.
After updating the Continent software, you must reconfigure the SNMP management system in the Configuration Manager.

To configure the SNMP management system:

1. Open the Configuration Manager and go to the **Structure** section. In the **Security Gateway** list, select the required Security Gateway and click **Properties**.

   The **Security Gateway** dialog box appears.
2. On the left, in the **Security Gateway** group, click **SNMP**.

   The **Network settings** menu appears.



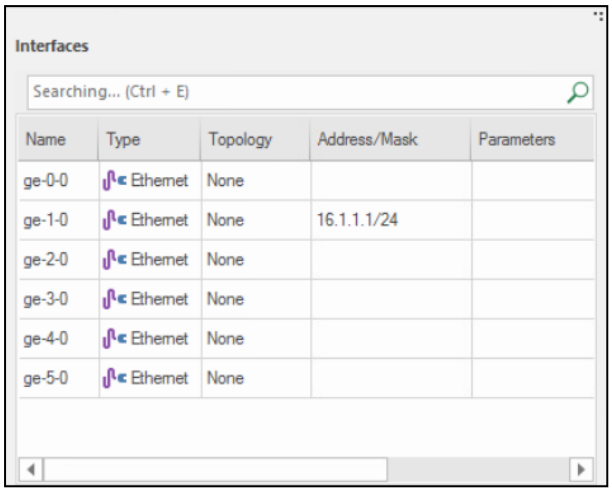
3. Enable **SNMP Access** option, select the protocol version and set the parameters depending on the selected protocol:

Protocol	Parameter	Description
SNMP v2	Community	The community name for interaction over the SNMP v2 protocol. Authenticates the user to access objects and is used as a built-in password
SNMP v2, SNMP v3	Contact	The contact name of the person responsible for the equipment. The contact name is sent over SNMP
	Location	The equipment location is sent over SNMP (city, street, district, room number, etc.)
	Description	Text description of the device is sent over SNMP
	Engine ID	The SNMP agent identifier. For example, the IP address or MAC address of the Security Gateway. The Security Gateway ID is set by default. Set in HEX format. Duplication of identifier values within the same monitoring server is not allowed
SNMP v3	**Security**	
	Authentication	Select an algorithm for authentication: • None; • MD5; • SHA
	Encryption	Select a data encryption algorithm: • None; • AES; • DES
	User	
	Login	User name for authentication
	New Password	Authentication and encryption password
	Confirm Password	Confirmation of the entered password

Note.
The password for the SNMP v3 protocol must meet the requirements set in the password security policy (see the toolbar of the Administration subsection).

4. In the **Interfaces** area, click .

   A dialog box with the Security Gateway interfaces opens.

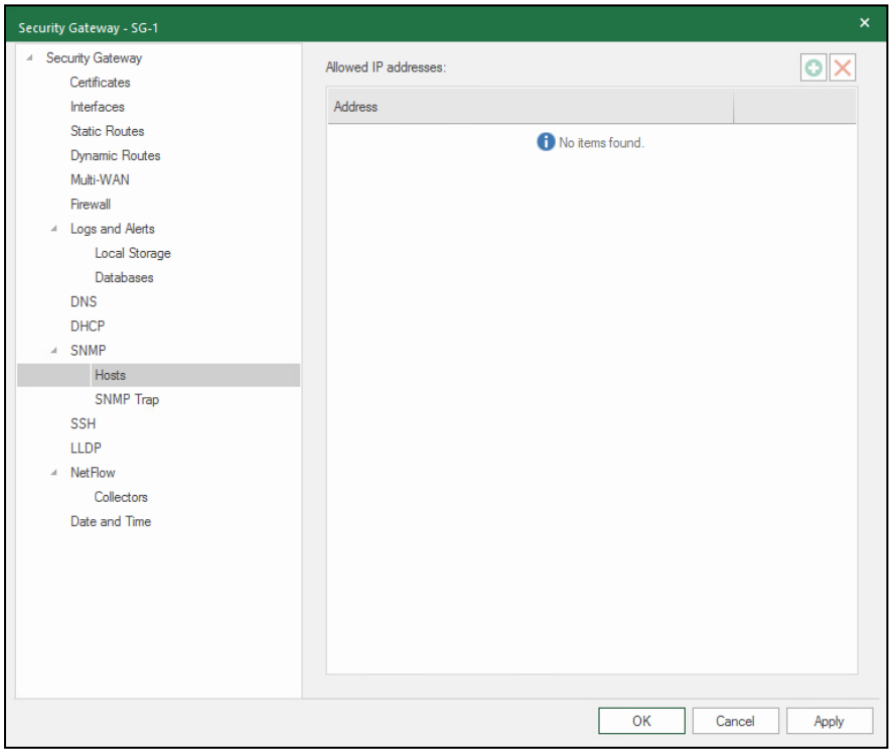


5. Select the Security Gateway interface over which the service will be available for network management tools. You can select multiple interfaces, including virtual and logical interfaces of VLAN, bond and bond with VLAN.

   The selected interface is displayed in the **Listening interfaces** field.

6. In **SNMP**, select **Hosts** on the left.

   A list of allowed host addresses to which the system responds to SNMP requests appears on the right.

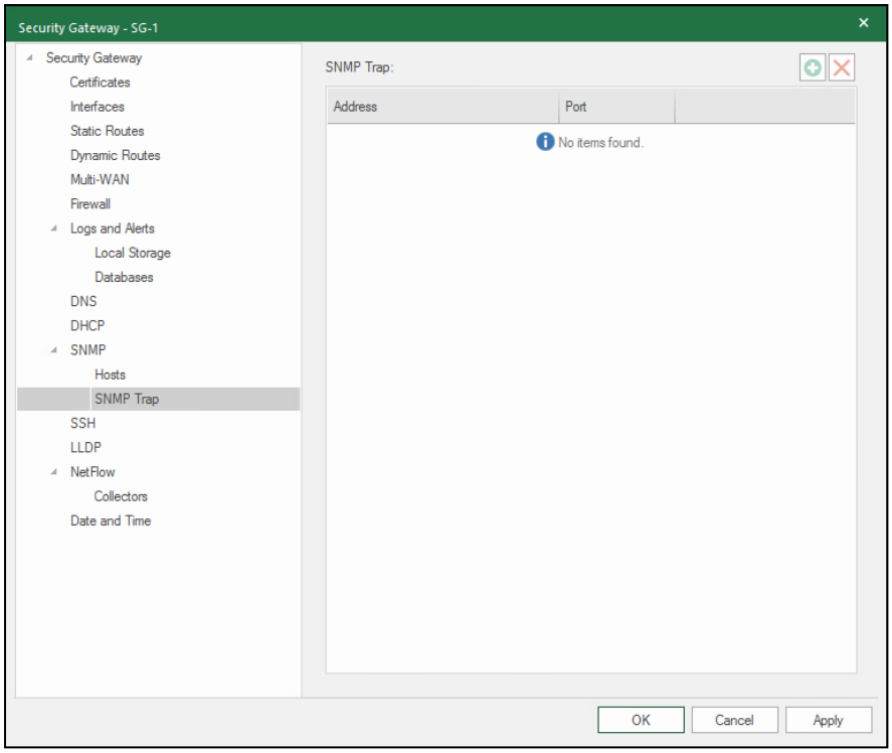


7. Click , enter the IP address and host mask in the **Address** field.

   Repeat for each host if necessary.

8. In the **SNMP** group, select **SNMP Trap** on the left.

   The list of IP addresses to which the system sends SNMP messages about an event appears on the right.



9. Click , enter the IP address and port in the respective fields.
   You can add multiple IP addresses.
10. Click **OK**.
    The **Security Gateway** dialog box closes.
11. Click **Install policy** on the toolbar to apply the settings.
12. Select the Security Gateway with the changed parameters and click **OK**.

OIDs from the standard MIB

RFC1213-MIB

Iso (1) identified-organization (3) dod (6) internet (1) mgmt (2) mib-2 (1) system (1)

Name	OID	Type	Description
System			
sysDescr	1.3.6.1.2.1.1.1.0	Octet string	A text description of the entity
sysObjectID	1.3.6.1.2.1.1.2.0	Object identifier	The vendor's authoritative identification of the network management subsystem
sysUpTime	1.3.6.1.2.1.1.3.0	Timeticks	The time (in hundredths of a second) since the network management portion of the system was last reinitialized
sysContact	1.3.6.1.2.1.1.4.0	Octet string	The textual identification of the contact person for this managed node
sysName	1.3.6.1.2.1.1.5.0	Octet string	An administratively assigned name for this managed node
sysLocation	1.3.6.1.2.1.1.6.0	Octet string	The physical location of this node

Iso (1) identified-organization (3) dod (6) internet (1) mgmt (2) mib-2 (1) interfaces (2)

Name	OID	Type	Description
Interface			
ifNumber	1.3.6.1.2.1.2.1.0	Integer	The number of network interfaces
ifTable	**1.3.6.1.2.1.2.2**	Section	A list of interface entries
ifEntry	**1.3.6.1.2.1.2.2.1**	Section	An interface entry containing objects at the subnetwork layer
ifIndex	1.3.6.1.2.1.2.2.1.1.X	Integer	A unique value for each interface
ifDescr	1.3.6.1.2.1.2.2.1.2.X	Octet string	The index of node interface
ifType	1.3.6.1.2.1.2.2.1.3.X	Integer	The type of protocol supported by the interface
ifMtu	1.3.6.1.2.1.2.2.1.4.X	Integer	The size of the largest datagram that can be sent through the interface
ifSpeed	1.3.6.1.2.1.2.2.1.5.X	Gauge	An estimate of the interface's current bandwidth in bits per second
ifPhysAddress	1.3.6.1.2.1.2.2.1.6.X	Octet string	The physical interface address
ifAdminStatus	1.3.6.1.2.1.2.2.1.7.X	Integer	The desired state of the interface
ifOperStatus	1.3.6.1.2.1.2.2.1.8.X	Integer	The current operational state of the interface
ifLastChange	1.3.6.1.2.1.2.2.1.9.X	Timeticks	The value of sysUpTime at the time the interface entered its current operational state
ifInOctets	1.3.6.1.2.1.2.2.1.10.X	Counter	The total number of octets received on the interface, including framing characters
ifInUcastPkts	1.3.6.1.2.1.2.2.1.11.X	Counter	The number of subnetwork-unicast packets delivered to a higher-layer protocol
ifInNUcastPkts	1.3.6.1.2.1.2.2.1.12.X	Counter	The number of non-unicast packets delivered to a higher-layer protocol
ifInDiscards	1.3.6.1.2.1.2.2.1.13.X	Counter	The number of inbound packets that were chosen to be discarded
ifInErrors	1.3.6.1.2.1.2.2.1.14.X	Counter	The number of inbound packets that contained errors

Name	OID	Type	Description
fInUnknownProtos	1.3.6.1.2.1.2.2.1.15.X	Counter	The number of packets received via the interface which were discarded because of an unknown or protocol
ifOutOctets	1.3.6.1.2.1.2.2.1.16.X	Counter	The total number of octets transmitted out of the interface, including framing characters
ifOutUcastPkts	1.3.6.1.2.1.2.2.1.17.X	Counter	The total number of packets that higher-level protocols requested to be transmitted to a subnetwork-unicast address
ifOutNUcastPkts	1.3.6.1.2.1.2.2.1.18.X	Counter	The total number of packets that higher-level protocols requested be transmitted to a non- unicast address
ifOutDiscards	1.3.6.1.2.1.2.2.1.19.X	Counter	The number of outbound packets which were chosen to be discarded
ifOutErrors	1.3.6.1.2.1.2.2.1.20.X	Counter	The number of outbound packets that could not be transmitted because of errors
ifOutQLen	1.3.6.1.2.1.2.2.1.21.X	Gauge	The length of the output packet queue

Note.

Symbols **.X** at the end of the number in the OID column means a dynamic value that depends on a platform (number of cores, interfaces etc.). You can receive the list of values by using the SNMP protocol tool that performes several **GetNext** requests automatically (for example, **Snmpwalk**).

An example for OID 1.3.6.1.2.1.4.20.1.3.X (subnet mask):

```
# snmpwalk -v 2c -c public 192.168.254.139.1.3.6.1.2.1.4.20.1.3
IP-MIB::ipAdEntNetMask.127.0.0.1 = IpAddress: 255.0.0.0
IP-MIB::ipAdEntNetMask.192.168.254.139 = IpAddress: 255.255.255.0
```

Iso (1) identified-organization (3) dod (6) internet (1) mgmt (2) mib-2 (1) at (3)

Name	OID	Type	Description
Network address translation			
atTable	**1.3.6.1.2.1.3.1**	Section	The Address Translation tables contain the Network address to physical address equivalences
atEntry	**1.3.6.1.2.1.3.1.1**	Section	Each entry contains one Network address to physical address equivalence
atIfIndex	1.3.6.1.2.1.3.1.1.1.X	Integer	Interface index
atPhysAddress	1.3.6.1.2.1.3.1.1.2.X	Octet string	The media-dependent 'physical' address. Setting this object to a null string (one of zero length) has the effect of invaliding the corresponding entry in the atTable object
atNetAddress	1.3.6.1.2.1.3.1.1.3.X	Network Address	Network address

Iso (1) identified-organization (3) dod (6) internet (1) mgmt (2) mib-2 (1) ip (4)

Name	OID	Type	Description
IP group			
ipForwarding	1.3.6.1.2.1.4.1.0	Integer	The indication of whether this entity is acting as an IP gateway in respect to the forwarding of datagrams received by, but not addressed to, this entity
ipDefaultTTL	1.3.6.1.2.1.4.2.0	Integer	The default value inserted into the Time-To-Live field of the IP header of datagrams originated at this entity
ipInReceives	1.3.6.1.2.1.4.3.0	Counter	The total number of input datagrams received from interfaces
ipInHdrErrors	1.3.6.1.2.1.4.4.0	Counter	The number of input datagrams discarded due to errors in their IP headers
ipInAddrErrors	1.3.6.1.2.1.4.5.0	Counter	The number of input datagrams discarded because of the invalid IP address

Name	OID	Type	Description
ipForwDatagrams	1.3.6.1.2.1.4.6.0	Counter	The number of input datagrams for the forwarded entity
ipInUnknownProtos	1.3.6.1.2.1.4.7.0	Counter	The number of locally-addressed datagrams received successfully but discarded because of an unknown or unsupported protocol
ipInDiscards	1.3.6.1.2.1.4.8.0	Counter	The number of input IP datagrams discarded because of the lack of buffer space
ipInDelivers	1.3.6.1.2.1.4.9.0	Counter	The total number of input datagrams successfully delivered to IP user-protocols
ipOutRequests	1.3.6.1.2.1.4.10.0	Counter	The total number of IP datagrams which local IP user-protocols supplied to IP in requests for transmission
ipOutDiscards	1.3.6.1.2.1.4.11.0	Counter	The number of input IP datagrams discarded because of the lack of buffer space
ipOutNoRoutes	1.3.6.1.2.1.4.12.0	Counter	The number of IP datagrams discarded because no route could be found to transmit them to their destination
ipReasmTimeout	1.3.6.1.2.1.4.13.0	Integer	The maximum number of seconds which received fragments are held while they are awaiting reassembly at this entity
ipReasmReqds	1.3.6.1.2.1.4.14.0	Counter	The number of IP fragments received which needed to be reassembled at this entity
ipReasmOKs	1.3.6.1.2.1.4.15.0	Counter	The number of IP datagrams successfully re-assembled
ipReasmFails	1.3.6.1.2.1.4.16.0	Counter	The number of failures detected by the IP re-assembly algorithm
ipFragOKs	1.3.6.1.2.1.4.17.0	Counter	The number of IP datagrams that have been successfully fragmented at this entity
ipFragFails	1.3.6.1.2.1.4.18.0	Counter	The number of IP datagrams that have been discarded because they needed to be fragmented at this entity but could not be
ipFragCreates	1.3.6.1.2.1.4.19.0	Counter	The number of IP datagram fragments that have been generated as a result of fragmentation at this entity
ipAddrTable	**1.3.6.1.2.1.4.20**	Section	The table of IP addresses
ipAddrEntry	**1.3.6.1.2.1.4.20.1**	Section	The addressing information for one of this entity's IP addresses
ipAdEntAddr	1.3.6.1.2.1.4.20.1.1.X	Ipaddress	The IP address to which this entry's addressing information pertains
ipAdEntIfIndex	1.3.6.1.2.1.4.20.1.2.X	Integer	The respective interface number
ipAdEntNetMask	1.3.6.1.2.1.4.20.1.3.X	Ipaddress	The subnet mask
ipAdEntBcastAddr	1.3.6.1.2.1.4.20.1.4.X	Integer	The value of the least-significant bit in the IP broadcast address
ipAdEntReasmMaxSize	1.3.6.1.2.1.4.20.1.5.X	Integer	The size of the largest IP datagram received through this interface
ipRouteTable	**1.3.6.1.2.1.4.21**	Section	The routing table
ipRouteEntry	**1.3.6.1.2.1.4.21.1**	Section	A route to a particular destination
ipRouteDest	1.3.6.1.2.1.4.21.1.1.X	Ipaddress	The destination IP address of this route
ipRouteIfIndex	1.3.6.1.2.1.4.21.1.2.X	Integer	The index value which uniquely identifies the local interface through which the next hop of this route should be reached
ipRouteMetric1	1.3.6.1.2.1.4.21.1.3.X	Integer	The primary routing metric for this route
ipRouteMetric2	1.3.6.1.2.1.4.21.1.4.X	Integer	An alternative routing metric for this route

Name	OID	Type	Description
ipRouteMetric3	1.3.6.1.2.1.4.21.1.5.X	Integer	An alternative routing metric for this route
ipRouteMetric4	1.3.6.1.2.1.4.21.1.6.X	Integer	An alternative routing metric for this route
ipRouteNextHop	1.3.6.1.2.1.4.21.1.7.X	Ipaddress	The IP address of the next hop of this route
ipRouteType	1.3.6.1.2.1.4.21.1.8.X	Integer	The type of route
ipRouteProto	1.3.6.1.2.1.4.21.1.9.X	Integer	The routing protocol
ipRouteAge	1.3.6.1.2.1.4.21.1.10.X	Integer	The number of seconds since this route was last updated or otherwise determined to be correct
ipRouteMask	1.3.6.1.2.1.4.21.1.11.X	Ipaddress	The destination network mask
ipRouteMetric5	1.3.6.1.2.1.4.21.1.12.X	Integer	An alternative routing metric for this route
ipRouteInfo	1.3.6.1.2.1.4.21.1.13.X	Object identifier	A reference to MIB definitions specific to the particular routing protocol
pNetToMediaTable	**1.3.6.1.2.1.4.22**	Section	The table with ARP-cache information
ipNetToMediaEntry	**1.3.6.1.2.1.4.22.1**	Section	Each entry contains one IP address to physical address equivalence
pNetToMediaIfIndex	1.3.6.1.2.1.4.22.1.1.X	Integer	The respective interface number
ipNetToMediaPhysAddress	1.3.6.1.2.1.4.22.1.2.X	Octet string	Physical address
ipNetToMediaNetAddress	1.3.6.1.2.1.4.22.1.3.X	Ipaddress	The IP address corresponding to the physical address
ipNetToMediaType	1.3.6.1.2.1.4.22.1.4.X	Integer	The type of mapping
ipRoutingDiscards	1.3.6.1.2.1.4.23.0	Counter	The number of routing entries which were chosen to be discarded even though they are valid

Iso (1) identified-organization (3) dod (6) internet (1) mgmt (2) mib-2 (1) icmp (5)

Name	OID	Type	Description
ICMP messages			
icmpInMsgs	1.3.6.1.2.1.5.1.0	Counter	The total number of ICMP messages which the entity received
icmpInErrors	1.3.6.1.2.1.5.2.0	Counter	The number of ICMP messages received with errors
icmpInDestUnreachs	1.3.6.1.2.1.5.3.0	Counter	The number of ICMP Destination Unreachable messages received
icmpInTimeExcds	1.3.6.1.2.1.5.4.0	Counter	The number of ICMP Time Exceeded messages received
icmpInParmProbs	1.3.6.1.2.1.5.5.0	Counter	The number of ICMP Parameter Problem messages received
icmpInSrcQuenchs	1.3.6.1.2.1.5.6.0	Counter	The number of ICMP Source Quench messages received
icmpInRedirects	1.3.6.1.2.1.5.7.0	Counter	The number of ICMP Redirect messages received
icmpInEchos	1.3.6.1.2.1.5.8.0	Counter	The number of ICMP Echo (request) messages received
icmpInEchoReps	1.3.6.1.2.1.5.9.0	Counter	The number of ICMP Echo Reply messages received
icmpInTimestamps	1.3.6.1.2.1.5.10.0	Counter	The number of ICMP Timestamp (request) messages received
icmpInTimestampReps	1.3.6.1.2.1.5.11.0	Counter	The number of ICMP Timestamp Reply messages received
icmpInAddrMasks	1.3.6.1.2.1.5.12.0	Counter	The number of ICMP Address Mask Request messages received
icmpInAddrMaskReps	1.3.6.1.2.1.5.13.0	Counter	The number of ICMP Address Mask Reply messages received
icmpOutMsgs	1.3.6.1.2.1.5.14.0	Counter	The total number of ICMP messages which this entity attempted to send

Name	OID	Type	Description
icmpOutErrors	1.3.6.1.2.1.5.15.0	Counter	The number of ICMP messages which this entity did not send due to problems discovered within ICMP such as a lack of buffers
icmpOutDestUnreachs	1.3.6.1.2.1.5.16.0	Counter	The number of ICMP Destination Unreachable messages sent
icmpOutTimeExcds	1.3.6.1.2.1.5.17.0	Counter	The number of ICMP Time Exceeded messages sent
icmpOutParmProbs	1.3.6.1.2.1.5.18.0	Counter	The number of ICMP Parameter Problem messages sent
icmpOutSrcQuenchs	1.3.6.1.2.1.5.19.0	Counter	The number of ICMP Source Quench messages sent
icmpOutRedirects	1.3.6.1.2.1.5.20.0	Counter	The number of ICMP Redirect messages sent
icmpOutEchos	1.3.6.1.2.1.5.21.0	Counter	The number of ICMP Echo (request) messages sent
icmpOutEchoReps	1.3.6.1.2.1.5.22.0	Counter	The number of ICMP Echo Reply messages sent
icmpOutTimestamps	1.3.6.1.2.1.5.23.0	Counter	The number of ICMP Timestamp (request) messages sent
icmpOutTimestampReps	1.3.6.1.2.1.5.24.0	Counter	The number of ICMP Timestamp Reply messages sent
icmpOutAddrMasks	1.3.6.1.2.1.5.25.0	Counter	The number of ICMP Address Mask Request messages sent
icmpOutAddrMaskReps	1.3.6.1.2.1.5.26.0	Counter	The number of ICMP Address Mask Reply messages sent

Iso (1) identified-organization (3) dod (6) internet (1) mgmt (2) mib-2 (1) tcp (6)

Name	OID	Type	Description
TCP connection			
tcpRtoAlgorithm	1.3.6.1.2.1.6.1.0	Integer	The algorithm used to determine the timeout value used for retransmitting unacknowledged octets
tcpRtoMin	1.3.6.1.2.1.6.2.0	Integer	The minimum value permitted by a TCP implementation for the retransmission timeout, measured in milliseconds
tcpRtoMax	1.3.6.1.2.1.6.3.0	Integer	The maximum value permitted by a TCP implementation for the retransmission timeout, measured in milliseconds
tcpActiveOpens	1.3.6.1.2.1.6.5.0	Counter	The number of times TCP connections have made a direct transition to the SYN-SENT state from the CLOSED state
tcpPassiveOpens	1.3.6.1.2.1.6.6.0	Counter	The number of times TCP connections have made a direct transition to the SYN-RCVD state from the LISTEN state
tcpAttemptFails	1.3.6.1.2.1.6.7.0	Counter	The number of times TCP connections have made a direct transition to the CLOSED state from either the SYN-SENT state or the SYN-RCVD state
tcpEstabResets	1.3.6.1.2.1.6.8.0	Counter	The number of times TCP connections have made a direct transition to the CLOSED state from either the ESTABLISHED state or the CLOSE_WAIT state
tcpCurrEstab	1.3.6.1.2.1.6.9.0	Gauge	The number of TCP connections for which the current state is either ESTABLISHED or CLOSE_WAIT
tcpInSegs	1.3.6.1.2.1.6.10.0	Counter	The total number of segments received, including those received in error
tcpOutSegs	1.3.6.1.2.1.6.11.0	Counter	The total number of segments sent, including those on current connections but excluding those containing only retransmitted octets
tcpRetransSegs	1.3.6.1.2.1.6.12.0	Counter	The total number of segments retransmitted
tcpConnTable	**1.3.6.1.2.1.6.13**	Section	A table containing TCP connection-specific information

Name	OID	Type	Description
tcpConnEntry	**1.3.6.1.2.1.6.13.1**	Section	Information about a particular current TCP connection
tcpConnState	1.3.6.1.2.1.6.13.1.1.X	Integer	The TCP connection state
tcpConnLocalAddress	1.3.6.1.2.1.6.13.1.2.X	Ipaddress	The local IP address for this TCP connection
tcpConnLocalPort	1.3.6.1.2.1.6.13.1.3.X	Integer	The local port number for this TCP connection
tcpConnRemAddress	1.3.6.1.2.1.6.13.1.4.X	Ipaddress	The remote IP address for this TCP connection
tcpConnRemPort	1.3.6.1.2.1.6.13.1.5.X	Integer	The remote port number for this TCP connection
tcpInErrs	1.3.6.1.2.1.6.14.0	Counter	The total number of segments received in error
tcpOutRsts	1.3.6.1.2.1.6.15.0	Counter	The number of TCP segments sent containing the RST flag

Iso (1) identified-organization (3) dod (6) internet (1) mgmt (2) mib-2 (1) udp (7)

Name	OID	Type	Description
UDP connection			
udpInDatagrams	1.3.6.1.2.1.7.1.0	Counter	The total number of UDP datagrams delivered to UDP users
udpNoPorts	1.3.6.1.2.1.7.2.0	Counter	The total number of received UDP datagrams for which there was no application at the destination port
udpInErrors	1.3.6.1.2.1.7.3.0	Counter	The number of received UDP datagrams that could not be delivered for reasons other than the lack of an application at the destination port
udpOutDatagrams	1.3.6.1.2.1.7.4.0	Counter	The total number of UDP datagrams sent from this entity
udpTable	**1.3.6.1.2.1.7.5**	Section	A table containing UDP listener information
udpEntry	**1.3.6.1.2.1.7.5.1**	Section	Information about a particular current UDP listener
udpLocalAddress	1.3.6.1.2.1.7.5.1.1.X	Ipaddress	The local IP address for this UDP listener
udpLocalPort	1.3.6.1.2.1.7.5.1.2.X	Integer	The local port number for this UDP listener

Iso (1) identified-organization (3) dod (6) internet (1) mgmt (2) mib-2 (1) ifMIB (31)

Name	OID	Type	Description
Interface			
ifName	1.3.6.1.2.1.31.1.1.1.1.X	Octet string	The textual name of the interface. The value of this object should be the name of the interface as assigned by the local device
ifInMulticastPkts	1.3.6.1.2.1.31.1.1.1.2.X	Counter32	The number of packets, delivered by this sub-layer to a higher (sub-)layer, which were addressed to a multicast address at this sub-layer
ifInBroadcastPkts	1.3.6.1.2.1.31.1.1.1.3.X	Counter32	The number of packets, delivered by this sub-layer to a higher (sub-)layer, which were addressed to a broadcast address at this sub-layer
ifOutMulticastPkts	1.3.6.1.2.1.31.1.1.1.4.X	Counter32	The total number of packets that higher-level protocols requested be transmitted, and which were addressed to a multicast address at this sub-layer, including those that were discarded or not sent
ifOutBroadcastPkts	1.3.6.1.2.1.31.1.1.1.5.X	Counter32	The total number of packets that higher-level protocols requested be transmitted, and which were addressed to a broadcast address at this sub-layer, including those that were discarded or not sent
ifHCInOctets	1.3.6.1.2.1.31.1.1.1.6.X	Counter64	The total number of octets received on the interface, including framing characters

Name	OID	Type	Description
ifHCInUcastPkts	1.3.6.1.2.1.31.1.1.1.7.X	Counter64	The number of packets, delivered by this sub-layer to a higher (sub-)layer, which were not addressed to a multicast or broadcast address at this sub-layer
ifHCInOctets	1.3.6.1.2.1.31.1.1.1.6.X	Counter64	The total number of octets received on the interface, including framing characters
ifHCInUcastPkts	1.3.6.1.2.1.31.1.1.1.7.X	Counter64	The number of packets, delivered by this sub-layer to a higher (sub-)layer, which were not addressed to a multicast or broadcast address at this sub-layer
ifHCInMulticastPkts	1.3.6.1.2.1.31.1.1.1.8.X	Counter64	The number of packets, delivered by this sub-layer to a higher (sub-)layer, which were addressed to a multicast address at this sub-layer
ifHCInBroadcastPkts	1.3.6.1.2.1.31.1.1.1.9.X	Counter64	The number of packets, delivered by this sub-layer to a higher (sub-)layer, which were addressed to a broadcast address at this sub-layer
ifHCOutOctets	1.3.6.1.2.1.31.1.1.1.10.X	Counter64	The total number of octets transmitted out of the interface, including framing characters
ifHCOutUcastPkts	1.3.6.1.2.1.31.1.1.1.11.X	Counter64	The total number of packets that higher-level protocols requested be transmitted, and which were not addressed to a multicast or broadcast address at this sub-layer, including those that were discarded or not sent
ifHCOutMulticastPkts	1.3.6.1.2.1.31.1.1.1.12.X	Counter64	The total number of packets that higher-level protocols requested be transmitted, and which were addressed to a multicast address at this sub-layer, including those that were discarded or not sent
ifHCOutBroadcastPkts	1.3.6.1.2.1.31.1.1.1.13.X	Counter64	The total number of packets that higher-level protocols requested be transmitted, and which were addressed to a broadcast address at this sub-layer, including those that were discarded or not sent
ifLinkUpDownTrapEnable	1.3.6.1.2.1.31.1.1.1.14.X	Integer	Indicate whether linkUp/linkDown traps should be generated for this interface
ifHighSpeed	1.3.6.1.2.1.31.1.1.1.15.X	Gauge	An estimate of the interface's current bandwidth in units of 1,000,000 bits per second
ifPromiscuousMode	1.3.6.1.2.1.31.1.1.1.16.X	TruthValue	This object has a value of false(2) if this interface only accepts packets/frames that are addressed to this station. This object has a value of true(1) when the station accepts all packets/frames transmitted on the media
ifConnectorPresent	1.3.6.1.2.1.31.1.1.1.17.X	TruthValue	This object has the value true(1) if the interface sublayer has a physical connector and the value false (2) otherwise
ifAlias, ifDummyIndex	1.3.6.1.2.1.31.1.1.1.18.X	String	This object is an 'alias' name for the interface as specified by a network manager, and provides a non-volatile 'handle' for the interface
ifCounterDiscontinuityTime	1.3.6.1.2.1.31.1.1.1.19.X	TimeStamp	The value of sysUpTime on the most recent occasion at which any one or more of this interface's counters suffered a discontinuity

OIDs from CONTINENT-SNMP-MIB

Intrusion prevention system state

Iso (1) identified-organization (3) dod (6) internet (1) private (4) enterprise (1) Security Code Ltd. (34849) products (1) continent (1) components (1) ips (1)

Name	OID	Type	Description
Intrusion prevention system			
ipsComponentState	1.3.6.1.4.1.34849.1.1.1.1.2.0	Integer32	IPS state: **1** — running, **0** — not running
ipsPcktsCount	1.3.6.1.4.1.34849.1.1.1.1.3.0	Counter64	Number of packets passed through IPS since the IPS system start
ipsPcktsCount1Min	1.3.6.1.4.1.34849.1.1.1.1.4.0	Counter64	Number of packets passed through IPS for the last minute
ipsPcktsCount5Min	1.3.6.1.4.1.34849.1.1.1.1.5.0	Counter64	Number of packets passed through IPS for the last 5 minutes
ipsPcktsCount15Min	1.3.6.1.4.1.34849.1.1.1.1.6.0	Counter64	Number of packets passed through IPS for the last 15 minutes
ipsDropsCount	1.3.6.1.4.1.34849.1.1.1.1.7.0	Counter64	Number of packets dropped by IPS since the IPS start
ipsDropsCount1Min	1.3.6.1.4.1.34849.1.1.1.1.8.0	Counter64	Number of packets dropped by IPS for the last minute
psDropsCount5Min	1.3.6.1.4.1.34849.1.1.1.1.9.0	Counter64	Number of packets dropped by IPS for the last 5 minutes
ipsDropsCount15Min	1.3.6.1.4.1.34849.1.1.1.1.10.0	Counter64	Number of packets dropped by IPS for the last 15 minutes
ipsEventLvl0Alerts	1.3.6.1.4.1.34849.1.1.1.1.11.0	Counter64	Number of Level-0 alerts since the IPS system start
ipsEventLvl0Alerts1Min	1.3.6.1.4.1.34849.1.1.1.1.12.0	Counter64	Number of Level-0 alerts for the last minute
ipsEventLvl0Alerts5Min	1.3.6.1.4.1.34849.1.1.1.1.13.0	Counter64	Number of Level-0 alerts for the last 5 minutes
psEventLvl0Alerts15Min	1.3.6.1.4.1.34849.1.1.1.1.14.0	Counter64	Number of Level-0 alerts for the last 15 minutes
ipsEventLvl1Alerts	1.3.6.1.4.1.34849.1.1.1.1.15.0	Counter64	Number of Level-1 alerts since the IPS system start
psEventLvl1Alerts1Min	1.3.6.1.4.1.34849.1.1.1.1.16.0	Counter64	Number of Level-1 alerts for the last minute
ipsEventLvl1Alerts5Min	1.3.6.1.4.1.34849.1.1.1.1.17.0	Counter64	Number of Level-1 alerts for the last 5 minutes
ipsEventLvl1Alerts15Min	1.3.6.1.4.1.34849.1.1.1.1.18.0	Counter64	Number of Level-1 alerts for the last 15 minutes
ipsEventLvl2Alerts	1.3.6.1.4.1.34849.1.1.1.1.19.0	Counter64	Number of Level-2 alerts since the IPS system start
ipsEventLvl2Alerts1Min	1.3.6.1.4.1.34849.1.1.1.1.20.0	Counter64	Number of Level-2 alerts for the last minute
ipsEventLvl2Alerts5Min	1.3.6.1.4.1.34849.1.1.1.1.21.0	Counter64	Number of Level-2 alerts for the last 5 minutes
ipsEventLvl2Alerts15Min	1.3.6.1.4.1.34849.1.1.1.1.22.0	Counter64	Number of Level-2 alerts for the last 15 minutes
ipsEventLvl3Alerts	1.3.6.1.4.1.34849.1.1.1.1.23.0	Counter64	Number of Level-3 alerts since the IPS system start

Name	OID	Type	Description
psEventLvl3Alerts1Min	1.3.6.1.4.1.34849.1.1.1.1.24.0	Counter64	Number of Level-3 alerts for the last minute
ipsEventLvl3Alerts5Min	1.3.6.1.4.1.34849.1.1.1.1.25.0	Counter64	Number of Level-3 alerts for the last 5 minutes
ipsEventLvl3Alerts15Min	1.3.6.1.4.1.34849.1.1.1.1.26.0	Counter64	Number of Level-3 alerts for the last 15 minutes
ipsSingatureCount	1.3.6.1.4.1.34849.1.1.1.1.27.0	Integer32	Number of loaded IPS signatures

Firewall state

Iso (1) identified-organization (3) dod (6) internet (1) private (4) enterprise (1) Security Code Ltd. (34849) products (1) continent (1) components (1) fw (2)

Name	OID	Type	Description
Firewall			
fwState	1.3.6.1.4.1.34849.1.1.1.2.1.0	Integer32	Firewall state: **0** — stopped, **1** — running
fwConnCount	1.3.6.1.4.1.34849.1.1.1.2.2.0	Counter64	Number of established conntrack connections
fwConnCountAvg1Min	1.3.6.1.4.1.34849.1.1.1.2.3.0	Counter64	Number of established conntrack connections for the last minute
fwConnCountAvg5Min	1.3.6.1.4.1.34849.1.1.1.2.4.0	Counter64	Number of established conntrack connections for the last 5 minutes
fwConnCountAvg15Min	1.3.6.1.4.1.34849.1.1.1.2.5.0	Counter64	Number of established conntrack connections for the last 15 minutes
fwConnPerSec	1.3.6.1.4.1.34849.1.1.1.2.6.0	Counter64	Speed of conntrack connections creation (conn/sec)
fwConnPerSecAvg1Min	1.3.6.1.4.1.34849.1.1.1.2.7.0	Counter64	Speed of conntrack connections creation (conn/sec) for the last minute
fwConnPerSecAvg5Min	1.3.6.1.4.1.34849.1.1.1.2.8.0	Counter64	Speed of conntrack connections creation (conn/sec)for the last 5 minutes
fwConnPerSecAvg15Min	1.3.6.1.4.1.34849.1.1.1.2.9.0	Counter64	Speed of conntrack connections creation (conn/sec) for the last 15 minutes
fwInputPacketsCount	1.3.6.1.4.1.34849.1.1.1.2.10.0	Counter64	Number of input packets processed by firewall
fwInputPacketsCountAvg1Min	1.3.6.1.4.1.34849.1.1.1.2.11.0	Counter64	Number of input packets processed by firewall for the last minute
fwInputPacketsCountAvg5Min	1.3.6.1.4.1.34849.1.1.1.2.12.0	Counter64	Number of input packets processed by firewall for the last 5 minutes
fwInputPacketsCountAvg15Min	1.3.6.1.4.1.34849.1.1.1.2.13.0	Counter64	Number of input packets processed by firewall for the last 15 minutes
fwOutputPacketsCount	1.3.6.1.4.1.34849.1.1.1.2.14.0	Counter64	Number of output packets processed by firewall
fwOutputPacketsCountAvg1Min	1.3.6.1.4.1.34849.1.1.1.2.15.0	Counter64	Number of output packets processed by firewall for the last minute
fwOutputPacketsCountAvg5Min	1.3.6.1.4.1.34849.1.1.1.2.16.0	Counter64	Number of output packets processed by firewall for the last 5 minutes
fwOutputPacketsCountAvg15Min	1.3.6.1.4.1.34849.1.1.1.2.17.0	Counter64	Number of output packets processed by firewall for the last 15 minutes

Operating system

Iso (1) identified-organization (3) dod (6) internet (1) private (4) enterprise (1) Security Code Ltd. (34849) products (1) continent (1) components (1) os (3)

Name	OID	Type	Description
Operating system			
continentVersion	1.3.6.1.4.1.34849.1.1.1.3.1.0	Octet string	Continent OS version
nodeUpTime	1.3.6.1.4.1.34849.1.1.1.3.2.0	Integer32	Node uptime in seconds
IPSVersion	1.3.6.1.4.1.34849.1.1.1.3.3.0	Octet string	Decision rule database version (only for Security Management Server)
KasperskyFeedsVersion	1.3.6.1.4.1.34849.1.1.1.3.4.0	Octet string	Threat Intelligence feed version
KasperskyHashVersion	1.3.6.1.4.1.34849.1.1.1.3.5.0	Octet string	Kaspersky hash version
UserHashVersion	1.3.6.1.4.1.34849.1.1.1.3.6.0	Octet string	User hash version
GeoIPVersion	1.3.6.1.4.1.34849.1.1.1.3.7.0	Octet string	GeoIP version
SkyDNSVersion	1.3.6.1.4.1.34849.1.1.1.3.8.0	Octet string	SkyDNS version
lastPolicyInstall	1.3.6.1.4.1.34849.1.1.1.3.9.0	Integer32	Policy installation uptime in seconds
maxConntrack	1.3.6.1.4.1.34849.1.1.1.3.10.0	Integer32	Maximum number of conntrack connections
countConntrack	1.3.6.1.4.1.34849.1.1.1.3.11.0	Integer32	Number of current conntrack connections
dataTime	1.3.6.1.4.1.34849.1.1.1.3.12.0	Octet string	SG date and time

Access server

Iso (1) identified-organization (3) dod (6) internet (1) private (4) enterprise (1) Security Code Ltd. (34849) products (1) continent (1) components (1) aserv (4)

Name	OID	Type	Description
Access server			
aservState	1.3.6.1.4.1.34849.1.1.1.4.1.0	Integer32	Access server state: **-2** — unknown, **-1** — not configured, **0** — stopped, **1** — running
aservConnCount	1.3.6.1.4.1.34849.1.1.1.4.2.0	Counter64	Number of bytes read through the access server
aservConnPerSecAvg1Min	1.3.6.1.4.1.34849.1.1.1.4.3.0	Counter64	Number of bytes read through the access server for the last minute
aservConnPerSecAvg5Min	1.3.6.1.4.1.34849.1.1.1.4.4.0	Counter64	Number of bytes read through the access server for the last 5 minutes
aservConnPerSecAvg15Min	1.3.6.1.4.1.34849.1.1.1.4.5.0	Counter64	Number of bytes read through the access server for the last 15 minutes
aservReadBytesCount	1.3.6.1.4.1.34849.1.1.1.4.6.0	Counter64	Number of bytes written through the access server
aservReadBytesCountAvg1Min	1.3.6.1.4.1.34849.1.1.1.4.7.0	Counter64	Number of bytes written through the access server for the last minute

Name	OID	Type	Description
aservReadBytesCountAvg5Min	1.3.6.1.4.1.34849.1.1.1.4.8.0	Counter64	Number of bytes written through the access server for the last 5 minutes
aservReadBytesCountAvg15Min	1.3.6.1.4.1.34849.1.1.1.4.9.0	Counter64	Number of bytes written through the access server for the last 15 minutes
aservWriteBytesCount	1.3.6.1.4.1.34849.1.1.1.4.10.0	Counter64	Number of bytes written through the access server
aservWriteBytesCountAvg1Min	1.3.6.1.4.1.34849.1.1.1.4.11.0	Counter64	Number of bytes written through the access server for the last minute
aservWriteBytesCountAvg5Min	1.3.6.1.4.1.34849.1.1.1.4.12.0	Counter64	Number of bytes written through the access server for the last 5 minutes
aservWriteBytesCountAvg15Min	1.3.6.1.4.1.34849.1.1.1.4.13.0	Counter64	Number of bytes written through the access server for the last 15 minutes
aservReadPacketsCount	1.3.6.1.4.1.34849.1.1.1.4.14.0	Counter64	Number of packets read through the access server
aservReadPacketsCountAvg1Min	1.3.6.1.4.1.34849.1.1.1.4.15.0	Counter64	Number of packets read through the access server for the last minute
aservReadPacketsCountAvg5Min	1.3.6.1.4.1.34849.1.1.1.4.16.0	Counter64	Number of packets read through the access server for the last 5 minutes
aservReadPacketsCountAvg15Min	1.3.6.1.4.1.34849.1.1.1.4.17.0	Counter64	Number of packets read through the access server for the last 15 minutes
aservWritePacketsCount	1.3.6.1.4.1.34849.1.1.1.4.18.0	Counter64	Number of packets written through the access server
aservWritePacketsCountAvg1Min	1.3.6.1.4.1.34849.1.1.1.4.19.0	Counter64	Number of packets written through the access server for the last minute
aservWritePacketsCountAvg5Min	1.3.6.1.4.1.34849.1.1.1.4.20.0	Counter64	Number of packets written through the access server for the last 5 minutes
aservWritePacketsCountAvg15Min	1.3.6.1.4.1.34849.1.1.1.4.21.0	Counter64	Number of packets written through the access server for the last 15 minutes
contLicensesTotalCount	1.3.6.1.4.1.34849.1.1.1.4.22.0	Unsigned32	Number of possible connections (licenses)
contLicensesBalance	1.3.6.1.4.1.34849.1.1.1.4.23.0	Unsigned32	Number of currently available connections (licenses)

Multi-WAN state

Iso (1) identified-organization (3) dod (6) internet (1) private (4) enterprise (1) Se-curity Code Ltd. (34849) products (1) continent (1) components (1) mw (5) multiwanTable (5) multiwanTableEntry (1)

Name	OID	Type	Description
Multi-WAN			
contWANConnection	**1.3.6.1.4.1.34849.1.1.1.5.5.1.1**	Section	
contWANConnecrionId	1.3.6.1.4.1.34849.1.1.1.5.5.1.2.X	Unsigned32	WAN channel identifier
contWANConnectionGw	1.3.6.1.4.1.34849.1.1.1.5.5.1.3.X	IpAddress	WAN channel gateway

Name	OID	Type	Description
contWANConnectionOffline	1.3.6.1.4.1.34849.1.1.1.5.5.1.4.X	Unsigned32	WAN channel shutdown sign
contWANConnectionFailureTime	1.3.6.1.4.1.34849.1.1.1.5.5.1.5.X	Unsigned32	WAN channel downtime in seconds
contWANConnectionOfflineTime	1.3.6.1.4.1.34849.1.1.1.5.5.1.6.X	Unsigned32	WAN channel unavailable time
contWANConnectionStatus	1.3.6.1.4.1.34849.1.1.1.5.5.173.X	OctetString	WAN channel status

Security Cluster state

Iso (1) identified-organization (3) dod (6) internet (1) private (4) enterprise (1) Security Code Ltd. (34849) products (1) continent (1) components (1) cluster (6)

Name	OID	Type	Description
Security Cluster			
clusterReservStateRole	1.3.6.1.4.1.34849.1.1.1.6.1.0	Octet string	Security Gateway status (**ACTIVE/STANDBY/UNKNOWN**)
clusterReservStateOn	1.3.6.1.4.1.34849.1.1.1.6.2.0	Octet string	Security Gateway role in cluster (**PRIMARY/RESERVED/ UNKNOWN**)
clusterReservLink	1.3.6.1.4.1.34849.1.1.1.6.3.0	Integer32	Connection with the second Security Gateway (**1** — active/ **0** — inactive)
clusterReservStatus	1.3.6.1.4.1.34849.1.1.1.6.4.0	Octet string	Security Gateway state (**OK** — healthy/ **Attention** — healthy with warming/ **OK, not ready** — healthy, but is not ready/ **Problem** — unhealthy/ **Down** — stopped/ **Unavailable** — unavailable/ **Busy** — busy)

Central processing unit state

Iso (1) identified-organization (3) dod (6) internet (1) private (4) enterprise (1) Security Code Ltd. (34849) products (1) continent (1) hardware (2) cpu (1)

Name	OID	Type	Description
Central processing unit			
cpuLoad	**1.3.6.1.4.1.34849.1.1.2.1.1**		CPU load
cpuLoadAvg1Min	1.3.6.1.4.1.34849.1.1.2.1.1.1.0	Integer32	CPU load average for the last minute
cpuLoadAvg5Min	1.3.6.1.4.1.34849.1.1.2.1.1.2.0	Integer32	CPU load average for the last 5 minutes
cpuLoadAvg15Min	1.3.6.1.4.1.34849.1.1.2.1.1.3.0	Integer32	CPU load average for the last 15 minutes
cpuUtil	**1.3.6.1.4.1.34849.1.1.2.1.2**	Section	CPU usage
cpuUtilIdleAvg1Min	1.3.6.1.4.1.34849.1.1.2.1.2.1.0	Integer32	CPU usage (idle) for the last minute
cpuUtilIdleAvg5Min	1.3.6.1.4.1.34849.1.1.2.1.2.2.0	Integer32	CPU usage (idle) for the last 5 minutes
cpuUtilIdleAvg15Min	1.3.6.1.4.1.34849.1.1.2.1.2.3.0	Integer32	CPU usage (idle) for the last 15 minutes
cpuUtilNiceAvg1Min	1.3.6.1.4.1.34849.1.1.2.1.2.4.0	Integer32	CPU usage (nice) for the last minute
cpuUtilNiceAvg5Min	1.3.6.1.4.1.34849.1.1.2.1.2.5.0	Integer32	CPU usage (nice) for the last 5 minutes
cpuUtilNiceAvg15Min	1.3.6.1.4.1.34849.1.1.2.1.2.6.0	Integer32	CPU usage (nice) for the last 15 minutes

Name	OID	Type	Description
cpuUtilUserAvg1Min	1.3.6.1.4.1.34849.1.1.2.1.2.7.0	Integer32	CPU usage (user) for the last minute
cpuUtilUserAvg5Min	1.3.6.1.4.1.34849.1.1.2.1.2.8.0	Integer32	CPU usage (user) for the last 5 minutes
cpuUtilUserAvg15Min	1.3.6.1.4.1.34849.1.1.2.1.2.9.0	Integer32	CPU usage (user) for the last 15 minutes
cpuUtilSystemAvg1Min	1.3.6.1.4.1.34849.1.1.2.1.2.10.0	Integer32	CPU usage (system) for the last minute
cpuUtilSystemAvg5Min	1.3.6.1.4.1.34849.1.1.2.1.2.11.0	Integer32	CPU usage (system) for the last 5 minutes
cpuUtilSystemAvg15Min	1.3.6.1.4.1.34849.1.1.2.1.2.12.0	Integer32	CPU usage (system) for the last 15 minutes
cpuUtilIowaitAvg1Min	1.3.6.1.4.1.34849.1.1.2.1.2.13.0	Integer32	CPU usage (iowait) for the last minute
cpuUtilIowaitAvg5Min	1.3.6.1.4.1.34849.1.1.2.1.2.14.0	Integer32	CPU usage (iowait) for the last 5 minutes
cpuUtilIowaitAvg15Min	1.3.6.1.4.1.34849.1.1.2.1.2.15.0	Integer32	CPU usage (iowait) for the last 15 minutes
cpuUtilInterruptAvg1Min	1.3.6.1.4.1.34849.1.1.2.1.2.16.0	Integer32	CPU usage (interrupts) for the last minute
cpuUtilInterruptAvg5Min	1.3.6.1.4.1.34849.1.1.2.1.2.17.0	Integer32	CPU usage (interrupts) for the last 5 minutes
cpuUtilInterruptAvg15Min	1.3.6.1.4.1.34849.1.1.2.1.2.18.0	Integer32	CPU usage (interrupts) for the last 15 minutes
cpuUtilSoftirqAvg1Min	1.3.6.1.4.1.34849.1.1.2.1.2.19.0	Integer32	CPU usage (softirq) for the last minute
cpuUtilSoftirqAvg5Min	1.3.6.1.4.1.34849.1.1.2.1.2.20	Integer32	CPU usage (interrupts) for the last 5 minutes
cpuUtilSoftirqAvg15Min	1.3.6.1.4.1.34849.1.1.2.1.2.21.0	Integer32	CPU usage (interrupts) for the last 15 minutes
coreTable	**1.3.6.1.4.1.34849.1.1.2.1.3**	Section	
coreEntry	**1.3.6.1.4.1.34849.1.1.2.1.3.1**	Section	
coreIndex	1.3.6.1.4.1.34849.1.1.2.1.3.1.1.X	Integer32	Core index
coreLoadAvg1Min	1.3.6.1.4.1.34849.1.1.2.1.3.1.2.X	Integer32	Core load average for the last minute
coreLoadAvg5Min	1.3.6.1.4.1.34849.1.1.2.1.3.1.3.X	Integer32	Core load average for the last 5 minutes
coreLoadAvg15Min	1.3.6.1.4.1.34849.1.1.2.1.3.1.4.X	Integer32	Core load average for the last 15 minutes
coreUtilIdleAvg1Min	1.3.6.1.4.1.34849.1.1.2.1.3.1.5.X	Integer32	Core usage (idle) for the last minute
coreUtilIdleAvg5Min	1.3.6.1.4.1.34849.1.1.2.1.3.1.6.X	Integer32	Core usage (idle) for the last 5 minutes
coreUtilIdleAvg15Min	1.3.6.1.4.1.34849.1.1.2.1.3.1.7.X	Integer32	Core usage (idle) for the last 15 minutes
coreUtilNiceAvg1Min	1.3.6.1.4.1.34849.1.1.2.1.3.1.8.X	Integer32	Core usage (nice) for the last minute
coreUtilNiceAvg5Min	1.3.6.1.4.1.34849.1.1.2.1.3.1.9.X	Integer32	Core usage (nice) for the last 5 minutes
coreUtilNiceAvg15Min	1.3.6.1.4.1.34849.1.1.2.1.3.1.10.X	Integer32	Core usage (nice) for the last 15 minutes
coreUtilUserAvg1Min	1.3.6.1.4.1.34849.1.1.2.1.3.1.11.X	Integer32	Core usage (user) for the last minute

Name	OID	Type	Description
coreUtilUserAvg5Min	1.3.6.1.4.1.34849.1.1.2.1.3.1.12.X	Integer32	Core usage (user) for the last 5 minutes
coreUtilUserAvg15Min	1.3.6.1.4.1.34849.1.1.2.1.3.1.13.X	Integer32	Core usage (user) for the last 15 minutes
coreUtilSystemAvg1Min	1.3.6.1.4.1.34849.1.1.2.1.3.1.14.X	Integer32	Core usage (system) for the last minute
coreUtilSystemAvg5Min	1.3.6.1.4.1.34849.1.1.2.1.3.1.15.X	Integer32	Core usage (system) for the last 5 minutes
coreUtilSystemAvg15Min	1.3.6.1.4.1.34849.1.1.2.1.3.1.16.X	Integer32	Core usage (system) for the last 15 minutes
coreUtilIowaitAvg1Min	1.3.6.1.4.1.34849.1.1.2.1.3.1.17.X	Integer32	Core usage (iowait) for the last minute
coreUtilIowaitAvg5Min	1.3.6.1.4.1.34849.1.1.2.1.3.1.18.X	Integer32	Core usage (iowait) for the last 5 minutes
coreUtilIowaitAvg15Min	1.3.6.1.4.1.34849.1.1.2.1.3.1.19.X	Integer32	Core usage (iowait) for the last 15 minutes
coreUtilInterruptAvg1Min	1.3.6.1.4.1.34849.1.1.2.1.3.1.20.X	Integer32	Core usage (interrupts) for the last minute
coreUtilInterruptAvg5Min	1.3.6.1.4.1.34849.1.1.2.1.3.1.21.X	Integer32	Core usage (interrupts) for the last 5 minutes
coreUtilInterruptAvg15Min	1.3.6.1.4.1.34849.1.1.2.1.3.1.22.X	Integer32	Core usage (interrupts) for the last 15 minutes
coreUtilSoftirqAvg1Min	1.3.6.1.4.1.34849.1.1.2.1.3.1.23.X	Integer32	Core usage (softirq) for the last minute
coreUtilSoftirqAvg5Min	1.3.6.1.4.1.34849.1.1.2.1.3.1.24.X	Integer32	Core usage (interrupts) for the last 5 minutes
coreUtilSoftirqAvg15Min	1.3.6.1.4.1.34849.1.1.2.1.3.1.25.X	Integer32	Core usage (interrupts) for the last 15 minutes

Random access memory state

Iso (1) identified-organization (3) dod (6) internet (1) private (4) enterprise (1) Security Code Ltd. (34849) products (1) continent (1) hardware (2) ram (2)

Name	OID	Type	Description
Random access memory			
ramTotalBytes	1.3.6.1.4.1.34849.1.1.2.2.1.0	Counter64	Total system RAM in bytes
ramUsedBytes	1.3.6.1.4.1.34849.1.1.2.2.2.0	Counter64	Used system RAM in bytes
ramUsedPercents	1.3.6.1.4.1.34849.1.1.2.2.3.0	Integer32	Percentage of used RAM
ramFreeBytes	1.3.6.1.4.1.34849.1.1.2.2.4.0	Counter64	Free system RAM in bytes
ramFreePercents	1.3.6.1.4.1.34849.1.1.2.2.5.0	Integer32	Percentage of free RAM

Swap state

Iso (1) identified-organization (3) dod (6) internet (1) private (4) enterprise (1) Security Code Ltd. (34849) products (1) continent (1) hardware (2) swap (3)

Name	OID	Type	Description
Swap			
swapTotalBytes	1.3.6.1.4.1.34849.1.1.2.3.1.0	Counter64	Total swap space size in bytes
swapUsedBytes	1.3.6.1.4.1.34849.1.1.2.3.2.0	Counter64	Used swap space in bytes

Name	OID	Type	Description
swapUsedPercents	1.3.6.1.4.1.34849.1.1.2.3.3.0	Integer32	Percentage of used swap space
swapFreeBytes	1.3.6.1.4.1.34849.1.1.2.3.4.0	Counter64	Free swap space in bytes
swapFreePercents	1.3.6.1.4.1.34849.1.1.2.3.5.0	Integer32	Percentage of free swap space

File system state

Iso (1) identified-organization (3) dod (6) internet (1) private (4) enterprise (1) Se-curity Code Ltd. (34849) products (1) continent (1) hardware (2) fs (4) fsTable (1) fsEntry (1)

Name	OID	Type	Description
File system			
fsIndex	1.3.6.1.4.1.34849.1.1.2.4.1.1.1.X	Integer32	File system index
fsMountPoint	1.3.6.1.4.1.34849.1.1.2.4.1.1.2.X	Octet string	The connection point of the file system
fsUsedBytes	1.3.6.1.4.1.34849.1.1.2.4.1.1.3.X	Counter64	Number of used bytes in the file system
fsUsedPercents	1.3.6.1.4.1.34849.1.1.2.4.1.1.4.X	Integer32	Percentage of used bytes in the file system
fsFreeBytes	1.3.6.1.4.1.34849.1.1.2.4.1.1.5.X	Counter64	Number of free bytes in the file system
fsFreePercents	1.3.6.1.4.1.34849.1.1.2.4.1.1.6.X	Integer32	Percentage of free bytes in the file system

VPN tunnel features

Iso (1) identified-organization (3) dod (6) internet (1) private (4) enterprise (1) Security Code Ltd. (34849) products (1) continent (1) hardware (2) vpn (5) vpnTable (1) vpnEntry (1)

Name	OID	Type	Description
VPN			
vpnIndex	1.3.6.1.4.1.34849.1.1.2.5.1.1.1.0	Integer32	VPN index
vpnName	1.3.6.1.4.1.34849.1.1.2.5.1.1.2.0	Octet string	Name of the VPN tunnel
vpnInBytes	1.3.6.1.4.1.34849.1.1.2.5.1.1.3.0	Counter64	Number of bytes income from the VPN
vpnInRate	1.3.6.1.4.1.34849.1.1.2.5.1.1.4.0	Counter64	VPN income rate (bytes per second)
vpnOutBytes	1.3.6.1.4.1.34849.1.1.2.5.1.1.5.0	Counter64	Number of bytes outgoing into the VPN
vpnOutRate	1.3.6.1.4.1.34849.1.1.2.5.1.1.6.0	Counter64	VPN outgoing rate (bytes per second)
vpnChannelLastIn	1.3.6.1.4.1.34849.1.1.2.5.1.1.7.X	Unsigned32	Time since VPN received last correct packet
vpnChannelBadLastIn	1.3.6.1.4.1.34849.1.1.2.5.1.1.8.X	Unsigned32	Time since VPN received last invalid packet
vpnActive	1.3.6.1.4.1.34849.1.1.2.5.1.1.9.X	Integer32	VPN activity status (**1** — active/ **0** — inactive)

Hardware temperature monitoring

Iso (1) identified-organization (3) dod (6) internet (1) private (4) enterprise (1) Se-curity Code Ltd. (34849) products (1) continent (1) hardware (2) temp (6)

Name	OID	Type	Description
Temperature			
tempCPU	1.3.6.1.4.1.34849.1.1.2.6.1.0	Integer32	Current CPU temperature
tempCPUAvg1Min	1.3.6.1.4.1.34849.1.1.2.6.2.0	Integer32	Average CPU temperature for the last minute
tempCPUAvg5Min	1.3.6.1.4.1.34849.1.1.2.6.3.0	Integer32	Average CPU temperature for the last 5 minutes
tempCPUAvg15Min	1.3.6.1.4.1.34849.1.1.2.6.4.0	Integer32	Average CPU temperature for the last 15 minutes
tempHDD	1.3.6.1.4.1.34849.1.1.2.6.5.0	Integer32	Current hard drive temperature
tempHDDAvg1Min	1.3.6.1.4.1.34849.1.1.2.6.6.0	Integer32	Average hard drive temperature for the last minute
tempHDDAvg5Min	1.3.6.1.4.1.34849.1.1.2.6.7.0	Integer32	Average hard drive temperature for the last 5 minutes
tempHDDAvg15Min	1.3.6.1.4.1.34849.1.1.2.6.8.0	Integer32	Average hard drive temperature for the last 15 minutes

Documentation

1. Continent Enterprise Firewall. Version 4. Administrator guide. Deployment.
2. Continent Enterprise Firewall. Version 4. Administrator guide. Management.
3. Continent Enterprise Firewall. Version 4. Administrator guide. Networking functions.