

Template:Networking tswos manual snmp

The information in this page is updated in accordance with firmware version .



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Summary

Simple Network Management Protocol (SNMP) is a network management protocol used for collecting information and configuring network devices. This page is an overview of the SNMP function in {{{name}}} devices.

SNMP settings

The **SNMP settings** page is used to configure SNMP accessibility and general SNMP information for your device.

SNMP agent settings



Field	Value	Description
Enable SNMP service	off on; default: off	Enable SNMP (Simple Network Management Protocol) service on systems startup.
IP type	IPv4 IPv6 IPv4v6; default: IPv4	IP type used by SNMP.
Port	integer [0..65535]; default: 161	TCP/UDP port number used for the connection.
SNMP v1 Mode	off on; default: on	Enable SNMP v1 compatibility.
SNMP v2c Mode	off on; default: on	Enable SNMP v2 compatibility.
SNMP v3 Mode	off on; default: off	Enable SNMP v3 compatibility.

SNMP System Summary

The **SNMP System Summary** section contains general information about SNMP on this device. You can also download this device's **MIB file** from this section.



Field	Value	Description
MIB file	-(interactive button)	Downloads the device's MIB file.
System OID	1.3.6.1.4.1.48690	An OID is an Object Identifier. It's an address used to identify devices and their statuses.
Location	string; default: location	Location of the system. If the field is empty, the option will have read-write permissions. If not, the option will become read-only.
Contact	string; default: email@example.com	Contact email. If the field is empty, the option will have read-write permissions. If not, the option will become read-only.
Name	string; default: name	Name of the system. If the field is empty, the option will have read-write permissions. If not, the option will become read-only.

SNMP v3 users

The **SNMP v3 users** page is used to create and manage users, who can be authenticated using SNMP v3. To configure an SNMP user, you must first create it:

1. Enter a custom name for the new user in the 'Name' field.
2. Click the 'Add' button.
3. Click the 'Edit' button next to the newly created user.



The SNMP user configuration window should look similar to this:



Note: this table has coloring scheme to indicate which fields can be seen with different configuration.

Field	Value	Description
Enable	off on; default: off	Enable SNMP user configuration.
Username	string; default: none	Set username to access SNMP.
Access Mode	Read-Only Read-Write; default: Read-Only	The access mode specifies the access the hosts in the community are allowed with respect to retrieving and modifying the MIB variables from a specific SNMP agent.

MIB subtree	string; default: none	Leave empty to access full MIB tree.
Security level	No authentication, no privacy Authentication, no privacy Authentication and privacy ; default: No authentication, no privacy	A security level is an authentication strategy that is set up for the user. No authentication, no privacy - authenticates with a username. Authentication - provides MD5 or SHA algorithms for authentication. Privacy - Provides DES or AES encryption.
Authentication, no privacy Authentication and privacy : Authentication type	SHA MD5; default: SHA	Set authentication type to use with SNMP v3.
Authentication, no privacy Authentication and privacy : Authentication passphrase	string; default: none	Set authentication passphrase to generate key for SNMP v3.
Authentication and privacy : Privacy type	DES AES; default: DES	Set privacy type to use with SNMP v3.
Authentication and privacy : Privacy passphrase	string; default: none	Set privacy passphrase to generate key for SNMP v3.

Communities

The **SNMP Community** section is used to manage access rights. You can edit an SNMP community by clicking the 'Edit' button next to it:



This will redirect you to the community's configuration page.



Field	Value	Description
Community name	string; default: none	Name of the community.
IP Address	ip; default: none	IP address of the community.
IP Mask	ip; default: none	Netmask for IP of the community.
Access Mode	Read-Only Read-Write; default: Read-Only	Access mode for current community.

SNMPv6 community configuration page:



Field	Value	Description
Community name	string; default: public	Name of the community.
Source	ip6 domain name; default: default	Source of the community.
Access Mode	Read-Only Read-Write; default: Read-Only	Access mode for current community.

SNMP variables list

Name	OID	Description
Device		
serial	.1.3.6.1.4.1.48690.1.1.0	Device serial number
deviceName	.1.3.6.1.4.1.48690.1.2.0	Device name
productCode	.1.3.6.1.4.1.48690.1.3.0	Device product (ordering) code
batchNumber	.1.3.6.1.4.1.48690.1.4.0	Device batch number
hardwareRevision	.1.3.6.1.4.1.48690.1.5.0	Device hardware revision
fwVersion	.1.3.6.1.4.1.48690.1.6.0	Device firmware version
deviceUptime	.1.3.6.1.4.1.48690.1.7.0	Device uptime in seconds
cpuUsage	.1.3.6.1.4.1.48690.1.8.0	Device cpu usage in percents
VLAN		
pVlanCount	.1.3.6.1.4.1.48690.8.1.0	Amount of port-based virtual networks.
pVlanIndex	.1.3.6.1.4.1.48690.8.2.1.1	Index of port-based VLAN
pVlanName	.1.3.6.1.4.1.48690.8.2.1.2	Name of port-based VLAN
pVlanVID	.1.3.6.1.4.1.48690.8.2.1.3	VLAN ID of port-based VLAN
pVlanPortsUntag	.1.3.6.1.4.1.48690.8.2.1.4	Untagged ports of port-based VLAN
pVlanPortsTag	.1.3.6.1.4.1.48690.8.2.1.5	Tagged ports of port-based VLAN
Iface		
ifaceCount	.1.3.6.1.4.1.48690.11.1.0	Number of interfaces on the device
ifaceIndex	.1.3.6.1.4.1.48690.11.2.1.1	A unique value, greater than zero, for each interface
ifaceName	.1.3.6.1.4.1.48690.11.2.1.2	Interface's name
ifaceState	.1.3.6.1.4.1.48690.11.2.1.3	Indicates interface's operational state as a string
ifaceSpeed	.1.3.6.1.4.1.48690.11.2.1.4	Indicates the interface latest or current speed value. Value is an integer representing the link speed in Mbits/sec
ifaceMulticast	.1.3.6.1.4.1.48690.11.2.1.5	Interface's multicast
ifaceRDiscards	.1.3.6.1.4.1.48690.11.2.1.6	Interface's incoming discards
ifaceRErrors	.1.3.6.1.4.1.48690.11.2.1.7	Interface's incoming errors
ifaceRTraffic	.1.3.6.1.4.1.48690.11.2.1.8	Interface's incoming traffic count
ifaceTDiscards	.1.3.6.1.4.1.48690.11.2.1.9	Interface's outgoing discards
ifaceTErrors	.1.3.6.1.4.1.48690.11.2.1.10	Interface's outgoing errors
ifaceTTraffic	.1.3.6.1.4.1.48690.11.2.1.11	Interface's outgoing traffic count

[[Category:{{{name}}} Services section]]