

Software 6 User Manual

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0.1 Firewall

The Neratec Software 6 uses the well known *netfilter* to filter or mangle network traffic. The configuration is done by the *iptables* application. Most terms are based on these software components.

To use the firewall it has to be enabled. Otherwise no feature described below will work. To enable the feature the cfgFwEnabled flag has to be enabled.

In the following sections you can define multiple rules. Please keep in mind that the order of the rules is important! This means the rule with the index 2 will be processed before the rule with the index 3.

0.1.1 Port forward

Port forwarding can be used to forward network traffic to another destination. This is also know as *Destination Network Address Translation (DNAT)*.

To illustrate how to configure the port forward, we setup a port forward to a web server and a database server which are common use cases. The goal is to connect from Radio Modem 1 (RM1), through the wireless link to RM2, to the web server or the database server.

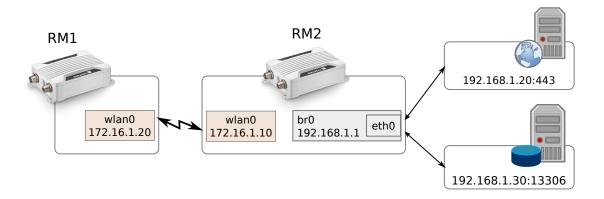


Figure 1: Port forward to servers behind an NT-DT50R device

At this point we will only describe the steps to configure the port forwarding. For basic configuration please read the ?? chapter in this manual.

To forward the network traffic to the web server and the database server we add two new *rules* to the port forward rules table.

For the web server we only want to forward top traffic to port 443.

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For the database server we want to forward tcp and udp traffic for the port range 2000 - 2100 to illustrate port ranges. In addition we want to accept traffic to the wlan from anywhere.

As first step we have to enable the firewall:

Set cfgFwEnabled to 1.

To configure the port forward to the web server, the following configuration has to be done. For further description of the configuration values please read the MIB references.

- 1. cfgFwNatPrtFwdEnabled.0 = 1
- 2. cfgFwNatPrtFwdInterface.0 = "wlan0"
- 3. cfgFwNatPrtFwdProtocol.0 = 2
- cfgFwNatPrtFwdDestinationAddress.0 = "172.16.1.0/24"
- 5. cfgFwNatPrtFwdDestinationPortStart.0 = 443
- 6. cfgFwNatPrtFwdDestinationPortEnd.0 = -1
- 7. cfgFwNatPrtFwdRedirectDestinationAddress.0 = "192.168.1.20"
- 8. cfgFwNatPrtFwdRedirectDestinationPort.0 = 443

To configure the port forward to the database server, the following configration has to be done.

- 1. cfgFwNatPrtFwdEnabled.1 = 1
- cfgFwNatPrtFwdInterface.1 = "wlan0"
- 3. cfgFwNatPrtFwdProtocol.1 = 3
- 4. cfgFwNatPrtFwdDestinationAddress.1 = "0.0.0.0/0"
- 5. cfgFwNatPrtFwdDestinationPortStart.1 = 2000
- 6. cfgFwNatPrtFwdDestinationPortEnd.1 = 2100
- 7. cfgFwNatPrtFwdRedirectDestinationAddress.1 = "192.168.1.20"
- 8. cfgFwNatPrtFwdRedirectDestinationPort.1 = 13306

As last step, please don't forget, apply the changes by settings rpcCfgApply to 1.



After this configuration you should be able to connect to your web server.

0.1.2 Outbound NAT

With the outbound NAT the Neratec DT50 can control how traffic leaving the device will be translated. It's also known as Source NAT (SNAT) and used in the most home routers to rewrite the source address to the address of the WAN interface of the router so the traffic finds the way back home.

The SNAT can be done by simple masquerade, means take the address of the network interface or by defining the source address/port.

As for the port forward we use a simple example to illustrate the functionality. In Figure 2 you see a simple setup. The goal is to connect from out laptop, through RM1 to the web interface of RM2. For this example our laptop use RM1 as default gateway and the wlan0 interface of RM1 has a dynamic address.

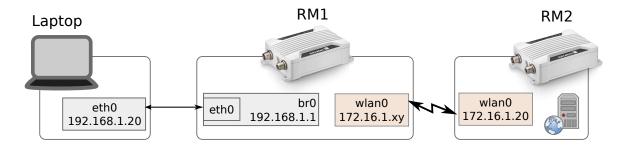


Figure 2: Example for outbound NAT on a NT-DT50R device

At this point we will only describe the steps to configure the outbound NAT. For basic configuration please read the ?? chapter in this manual.

There are a many possibilities to set the behaviour of the rules. For all possible configurations please see firewall in the MIB reference.

For the example we keep it simple. To configure the outbound NAT

- cfgFwNatOutEnabled.0 = 1
- 2. cfgFwNatOutInterface.0 = "wlan0"
- cfgFwNatPrtFwdProtocol.0 = 2

This enable the first rule, set the output interface to *wlan0* and applies to TCP traffic only. Please don't forget to apply the changes by settings rpcCfgApply to 1.

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After this configuration you should be able to connect from the laptop to 172.16.1.20, to the web interface of RM2.

MIB Reference: NERATEC-SW6-MIB

1 Device configuration

1.1 configuration

1.1.1 cfgSystem

1.1.1.1 cfgSysHostname



The hostname of the device.

Access	readwrite
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.1

1.1.1.2 cfgSysTimezone

AP STA

POSIX timezone string.

Access	readwrite
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.1.2

1.1.2 cfgSsh

1.1.2.1 cfgSshEnabled



AP STA

SSH disabled or enabled.

Enumeration	disabled (0) enabled (1)
Access	readwrite
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.10.1

1.1.2.2 cfgSshPort

AP STA

SSH port.

Access	readwrite
Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.10.2

1.1.3 cfgLogging

1.1.3.1 cfgLogFile

1.1.3.1.1 cfgLogFileEnabled

AP STA

Log messages to file.

Enumeration	disabled (0) enabled (1)
Access	readwrite
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.1.1.1

1.1.3.1.2 cfgLogFileLevel

AP STA

Log only messages more or equal urgent than prio N (0-7).

Enumeration	warning (4) debug (7) critical (2) alert (1) notice (5) emergency (0) error (3) info (6)
Access	readonly
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.1.1.2

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1.1.3.1.3 cfgLogFileName

AP STA

Log File.

Access	readwrite
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.1.1.3

1.1.3.1.4 cfgLogFileSize

AP STA

Maximum size of log buffer or log file in KB.

Access	readwrite
Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.1.1.4

1.1.3.2 cfgLogRemote

1.1.3.2.1 cfgLogRemoteEnabled

AP STA

Log messages to file.

Enumeration	disabled (0) enabled (1)
Access	readwrite
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.11.2.1

1.1.3.2.2 cfgLogRemoteLevel

AP STA

Log only messages more or equal urgent than prio N (0-7).

Enumeration	warning (4) debug (7) critical (2) alert (1) notice (5) emergency (0) error (3) info (6)
Access	readwrite
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.11.2.2

1 Device configuration 10 of 106



1.1.3.2.3 cfgLogRemoteProtocol

AP STA

Protocol to send log messages. The udp(0) protocol complies withthe standard syslog protocol.

Enumeration	tcp (1) udp (0)
Access	readwrite
Status	current
Oid	1.3.6.1.4.1.41524.1.1.11.2.3

1.1.3.2.4 cfgLogRemotelp

AP STA

Remote IP address.

Access	readwrite
Status	current
Туре	IpAddress
Oid	1.3.6.1.4.1.41524.1.1.1.1.2.4

1.1.3.2.5 cfgLogRemotePort

AP STA

Remote Port.

Access	readwrite
Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.1.2.5

1.1.4 cfgSnmp

1.1.4.1 cfgSnmpd

1.1.4.1.1 cfgSnmpdLocation

AP STA

SNMP System Location.



Access	readwrite
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.12.1.1

1.1.4.1.2 cfgSnmpdCommunity

cfgSnmpdComAdmin



Community name for the administrator.

Access	readwrite
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.12.1.100.1

cfg Snmpd Com Maintainer

AP STA

Community name for the maintainer.

Access	readwrite
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.12.1.100.2

cfgSnmpdComMonitor

AP STA

Community name for the monitor.

Access	readwrite
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.12.1.100.3

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cfgSnmpdContact

AP STA

SNMP Contact.

Access	readwrite
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.12.1.2

cfgSnmpdVersion

AP STA

SNMP Version

Enumeration	usm (1) v2c (0)
Access	readwrite
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.12.1.3

1.1.4.2 cfgSnmpTrap

1.1.4.2.1 cfgSnmpTrapEnabled

AP STA

Enable sending of SNMP traps.

Enumeration	disabled (0) enabled (1)
Access	readwrite
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.12.10.1

1.1.4.2.2 cfgSnmpTrapVersion

AP STA

SNMP version with which traps are sent.

Enumeration	usm (2) v1 (0) v2c (1)
Access	readwrite
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.12.10.2

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1.1.4.2.3 cfgSnmpTrapCommunity

AP STA

SNMP community if SNMP v2c is used. If SNMP v3 is used the Community string is the password.

Access	readwrite
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.12.10.3

1.1.4.2.4 cfgSnmpTrapDest

AP STA

Ip address of the trap receiver.

Access	readwrite
Status	current
Туре	IpAddress
Oid	1.3.6.1.4.1.41524.1.1.1.12.10.4

1.1.5 cfgDhcp

1.1.5.1 cfgDhcpGlobal

1.1.5.1.1 cfgDhcpGlobalEnabled

Enable DHCP server functionality.

Enumeration	disabled (0) enabled (1)
Access	readwrite
Status	current
Oid	1.3.6.1.4.1.41524.1.1.13.1.1

1.1.5.1.2 cfgDhcpDnsmasqTable

DHCP Dnsmasq instances.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.13.2

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1.1.5.1.3 cfgDhcpDnsmasqTableEntry

DHCP Dnsmasq instances.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.13.2.1

1.1.5.1.4 cfgDhcpDnsmasqIndex

Entry index of Table.

Status	current
Range	0 - 1
Oid	1.3.6.1.4.1.41524.1.1.1.13.2.1.1

1.1.5.1.5 cfgDhcpDnsmasqDhcpid

Dhcp ID

Status	current
Range	0 - 8
Oid	1.3.6.1.4.1.41524.1.1.1.13.2.1.2

1.1.5.1.6 cfgDhcpScopeTable

DHCP instance configs.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.13.3

1.1.5.1.7 cfgDhcpScopeTableEntry

DHCP instance configs.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.13.3.1

1.1.5.1.8 cfgDhcpScopeIndex

Entry index of Table.



Status	current
Range	0 - 8
Oid	1.3.6.1.4.1.41524.1.1.1.13.3.1.1

1.1.5.1.9 cfgDhcpScopeld

#TODO blub

Status	current
Range	0 - 8
Oid	1.3.6.1.4.1.41524.1.1.13.3.1.2

1.1.5.1.10 cfgDhcpScopeInterface

#TODO (bridge, eth, vlan, wlan, alias)

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.13.3.1.3

1.1.5.1.11 cfgDhcpScopeStart

Specifies the offset from the network address of the underlyinginterface to calculate the minimum address that may be leased toclients. It may be greater than 255 to span subnets.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.13.3.1.4

1.1.5.1.12 cfgDhcpScopeLimit

Specifies the maximum allowable address that may be leased toclients, calculated as network address + 'start' + 'limit'.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.13.3.1.5

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1.1.5.1.13 cfgDhcpScopeLeasetime

Specifies the lease time of addresses handed out to clients, for example 12h or 30m.

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.13.3.1.6

1.1.6 cfgNtp

1.1.6.1 cfgNtpEnabled



Synchronize the system time with given server.

Enumeration	disabled (0) enabled (1)
Access	readwrite
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.14.1

1.1.6.2 cfgNtpServer1

AP STA

NTP server 1. If the IP is set to 0.0.0.0 the ntp clientwill just listening to broadcast packages.

Access	readwrite
Status	current
Туре	IpAddress
Oid	1.3.6.1.4.1.41524.1.1.1.14.2

1.1.6.3 cfgNtpServer2

AP STA

NTP server 2. Used as fallback if server 1 cannot be reached.

Access	readwrite
Status	current
Туре	IpAddress
Oid	1.3.6.1.4.1.41524.1.1.1.14.3

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1.1.7 cfgHttp

1.1.7.1 cfgHttpRedirectEnabled

AP STA

Configure if by default all access to the http serveron port 80 shall be redirected to https. This does not disable https.

Enumeration	disabled (0) enabled (1)
Access	readwrite
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.15.4

1.1.8 cfgUsbgadget

1.1.8.1 cfgUsbgadgetEnabled

Enable or disable USB ethernet gadget.

Enumeration	disabled (0) enabled (1)
Access	readwrite
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.16.1

1.1.8.2 cfgUsbgadgetIdVendor

USB gadget vendor IDSet to Neratec Solutions AG (0x2B30 or dec_11056).

Access	readonly
Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.16.2

1.1.8.3 cfgUsbgadgetIdProduct

USB gadget prodcut IDDefault DT60M is 0x0001.

Access	readwrite
Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.16.3

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1.1.9 cfgNetwork

1.1.9.1 cfgNetEthernetTable

Ethernet Network Interfaces.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.2.1

1.1.9.2 cfgNetEthernetTableEntry

Ethernet Network Interfaces.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.2.1.1

1.1.9.3 cfgNetEthIndex

Entry index of Table.

Status	current
Range	0 - 2
Oid	1.3.6.1.4.1.41524.1.1.1.2.1.1.1

1.1.9.4 cfgNetEthName

AP STA

Name of the ethernet interface.

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.2.1.1.2

1.1.9.5 cfgNetEthEnabled

AP STA

Ethernet interface disabled or enabled.

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.2.1.1.3

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1.1.9.6 cfgNetEthlp



The IPv4 address of the ethernet interface. When the device is configured as part of a bridge, the address of the interface with the lowest number is used. The priority of interfaces is: eth > vlan > wlan Example: bridge with eth0, vlan1 and wlan0. The address configured on eth0 will be used.

Status	current
Туре	IpAddress
Oid	1.3.6.1.4.1.41524.1.1.1.2.1.1.4

1.1.9.7 cfgNetEthNetmask

AP STA

The subnet mask associated with the IPv4 address of this interface.

Status	current
Туре	IpAddress
Oid	1.3.6.1.4.1.41524.1.1.1.2.1.1.5

1.1.9.8 cfgNetEthProto



This parameter discribes which protocol is used to get the IPv4settings for this interface.

static(0): indicates that the address is manually configured to aspecified address given by the IPv4 address parameter of thisinterface configuration.

dhcp(1) indicates that an IPv4 address will be obtained by the DHCPclient. In case the DHCP client is not able to get an valid IPv4address the static IP address will be used as a fallback.

Enumeration	static (0) dhcp (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.2.1.1.6

1.1.9.9 cfgNetEthBridge

AP STA

If set to other than -1: the interface is part of bridge:-1: none0: br01: br1X: brX

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.2.1.1.7

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1.1.9.10 cfgNetWlanTable

Wlan Network Interfaces.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.2.2

1.1.9.11 cfgNetWlanTableEntry

Wlan Network Interfaces.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.2.2.1

1.1.9.12 cfgNetWlanIndex

Entry index of Table.

Status	current
Range	0 - 15
Oid	1.3.6.1.4.1.41524.1.1.1.2.2.1.1

1.1.9.13 cfgNetWlanName



Name of the wireless interface.

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.2.2.1.2

1.1.9.14 cfgNetWlanEnabled

AP STA

Wireless interface disabled or enabled.

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.2.2.1.3

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1.1.9.15 cfgNetWlanlp



The IPv4 address of the wireless interface. When the device is configured as part of a bridge, the address of the interface with the lowest number is used. The priority of interfaces is: eth > vlan > wlan Example: bridge with eth0, vlan1 and wlan0. The address configured on eth0 will be used.

Status	current
Туре	IpAddress
Oid	1.3.6.1.4.1.41524.1.1.1.2.2.1.4

1.1.9.16 cfgNetWlanNetmask

AP STA

The subnet mask associated with the IPv4 address of this interface.

Status	current
Туре	IpAddress
Oid	1.3.6.1.4.1.41524.1.1.1.2.2.1.5

1.1.9.17 cfgNetWlanProto

AP STA

This parameter discribes which protocol is used to get the IPv4settings for this interface.

static(0): indicates that the address is manually configured to aspecified address given by the IPv4 address parameter of thisinterface configuration.

dhcp(1) indicates that an IPv4 address will be obtained by the DHCPclient. In case the DHCP client is not able to get an valid IPv4address the static IP address will be used as a fallback.

Enumeration	static (0) dhcp (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.2.2.1.6

1.1.9.18 cfgNetWlanBridge

AP STA

If set to other than -1: the interface is part of bridge:-1: none0: br01: br1X: brX

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.2.2.1.7

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1.1.9.19 cfgNetVlanTable

VLAN Network Interfaces.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.2.3

1.1.9.20 cfgNetVlanTableEntry

VLAN Network Interface.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.2.3.1

1.1.9.21 cfgNetVlanIndex

Entry index of Table.

Status	current
Range	0 - 9
Oid	1.3.6.1.4.1.41524.1.1.1.2.3.1.1

1.1.9.22 cfgNetVlanName

AP STA

Name of the VLAN interface.

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.2.3.1.2

1.1.9.23 cfgNetVlanEnabled

AP STA

VLAN interface disabled or enabled.

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.2.3.1.3

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1.1.9.24 cfgNetVlanlp



The IPv4 address of the VLAN interface. When the device is configured as part of a bridge, the address of the interface with the lowest number is used. The priority of interfaces is: eth > vlan > wlan Example: bridge with eth0, vlan1 and wlan0. The address configured on eth0 will be used.

Status	current
Туре	IpAddress
Oid	1.3.6.1.4.1.41524.1.1.1.2.3.1.4

1.1.9.25 cfgNetVlanNetmask

AP STA

The subnet mask associated with the IPv4 address of this interface.

Status	current
Туре	IpAddress
Oid	1.3.6.1.4.1.41524.1.1.1.2.3.1.5

1.1.9.26 cfgNetVlanProto

AP STA

This parameter discribes which protocol is used to get the IPv4settings for this interface.

static(0): indicates that the address is manually configured to aspecified address given by the IPv4 address parameter of thisinterface configuration.

dhcp(1) indicates that an IPv4 address will be obtained by the DHCPclient. In case the DHCP client is not able to get an valid IPv4address the static IP address will be used as a fallback.

Enumeration	static (0) dhcp (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.2.3.1.6

1.1.9.27 cfgNetVlanBridge

AP STA

If set to other than -1: the interface is part of bridge:-1: none0: br01: br1X: brX

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.2.3.1.7

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1.1.9.28 cfgNetVlanParent



Name of the physical parent interface on which the VLAN resides.

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.2.3.1.8

1.1.9.29 cfgNetVlanVid

AP STA

ID of the VLAN.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.2.3.1.9

1.1.9.30 cfgNetAliasTable

IP Aliases.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.2.4

1.1.9.31 cfgNetAliasTableEntry

IP Aliases.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.2.4.1

1.1.9.32 cfgNetAliasIndex

Entry index of Table.

Status	current
Range	0 - 15
Oid	1.3.6.1.4.1.41524.1.1.1.2.4.1.1

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1.1.9.33 cfgNetAliasEnabled

AP STA

Alias disabled or enabled.

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.2.4.1.3

1.1.9.34 cfgNetAliasIp

AP STA

The IPv4 address of the alias. When the parent interface of the alias is configured as partof a bridge, the alias will be configured on the bridge.

Status	current
Туре	IpAddress
Oid	1.3.6.1.4.1.41524.1.1.1.2.4.1.4

1.1.9.35 cfgNetAliasNetmask

AP STA

The subnet mask associated with the IPv4 address of this alias.

Status	current
Туре	IpAddress
Oid	1.3.6.1.4.1.41524.1.1.1.2.4.1.5

1.1.9.36 cfgNetAliasParent

AP STA

Name of the physical parent interface on which the alias resides.

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.2.4.1.8

1.1.9.37 cfgNetAliasLabel

AP STA

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Label with which the alias label is set up. With a value of -1 the alias is setup without a label. Example: the parent is eth0, the label is 5. The resulting label for the alias is eth0:5

Status	current
Range	-1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.2.4.1.9

1.1.10 cfgWireless

1.1.10.1 cfgWlanDeviceTable

Wireless Hardware Modules.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.1

1.1.10.2 cfgWlanDeviceTableEntry

Wireless Hardware Modules.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.1.1

1.1.10.3 cfgWlanDevIndex

Entry index of Table.

Status	current
Range	0 - 1
Oid	1.3.6.1.4.1.41524.1.1.1.3.1.1.1

1.1.10.4 cfgWlanDevDistance



Maximum distance in meters a client can be awayfrom the access point. Even though the distance is set in meters, the slottime settings change in 450m steps.

Status	current
Range	0 - 114750
Oid	1.3.6.1.4.1.41524.1.1.1.3.1.1.10

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1.1.10.5 cfgWlanDevRtsThr



Frames longer than this value require a RTS/CTS handshake.RTS/CTS is used in hidden node situations. In 11bg mode, theseframes are sent in DSSS modulation at 11b data rates. OtherwiseOFDM rates are used.The following settings are special2346 - maximum value, RTS/CTS is disabled1 - minimum value, RTS/CTS is used always

Note: It is not recommended to use RTS/CTS in AP mode.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.1.1.11

1.1.10.6 cfgWlanDevFragmThr



Frames longer than this threshold will be fragmented. Fragmentation can be used to reduce the number of retransmissions.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.1.1.12

1.1.10.7 cfgWlanDevShortRetry



How many times transmission of the RTS frame will beretried if there is no CTS received from the AP.

Status	current
Range	1 - 10
Oid	1.3.6.1.4.1.41524.1.1.1.3.1.1.13

1.1.10.8 cfgWlanDevLongRetry



How many times unicast data frames will beretried if there is no ACK from the receiver.

Status	current
Range	1 - 10
Oid	1.3.6.1.4.1.41524.1.1.1.3.1.1.14

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1.1.10.9 cfgWlanDevAntennaGain

AP STA

Antenna gain in dBi.If multiple antennas with different gains are connected, set the value of the antenna with the highest gain.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.1.1.15

1.1.10.10 cfgWlanDevTxAntenna

AP STA

Wireless Transmission AntennasThis is a bitmask to enable/disable the chains.Example:1(001) equal to chain 0 enabled3(011) equal to chain 0 and 1 enabled7(111) equal to chain 0, 1 and 2 enabled

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.1.1.16

1.1.10.11 cfgWlanDevRxAntenna

AP STA

Wireless Receiver AntennasThis is a bitmask to enable/disable the chains. Example:1(001) equal to chain 0 enabled3(011) equal to chain 0 and 1 enabled7(111) equal to chain 0, 1 and 2 enabled

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.1.1.17

1.1.10.12 cfgWlanDevPhy

AP STA

The map between physical device and radio.

Status	current	
Туре	DisplayString	
Range	1 - 255	
Oid	1.3.6.1.4.1.41524.1.1.1.3.1.1.18	

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1.1.10.13 cfgWlanDevName

AP STA

Name of the wireless device.

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.3.1.1.2

1.1.10.14 cfgWlanDevRfOutput

AP STA

Ability to disable transmission of RF signal.

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.1.1.3

1.1.10.15 cfgWlanDevModulation

AP STA

The modulation modes of the physical wireless device are:

g(2): This modulation mode uses OFDM data rates up to 54 MBit/s in thefrequency band between 2.4 and 2.4835 GHz. It supports the802.11g standard.

bg(3): This modulation mode uses data rates up to 54 MBit/s in thefrequency band between 2.4 and 2.4835 GHz. It supports the802.11bg standard. The modulation is either DSSS for theslower rates or OFDM for the faster ones.

a(4): Mode supports data rates up to 54 MBit/s in the 5GHzfrequency band and only OFDM modulation.

n(8): Mode supports data rates up to 300 MBit/s in the 2.4GHz and5GHz frequency band and only OFDM modulation. n-rates cannot be used alone. They have to be used together withg or a to specify which frequency band shall be used.10(ng): for 2.4GHz12(na): for 5GHz.

Enumeration	g (2) a (4) na (12) bg (3) ng (10)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.1.1.4

1.1.10.16 cfgWlanDevBandwidth

AP STA

Wireless Bandwidth ModeSpecifies the Bandwidth of the Channel.0: HT20 20MHz wide channel.1:

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HT40+ 40MHz wide channel with the side channel on the top.2: HT40- 40MHz wide channel with the side channel on the bottom.

HT40+ and HT40- my not be used on all chanels. The following table shows examples of what channels may be used. The full list can be found in IEEE 802.11n Annex JDepending on the country, not all frequencies may be available

Examples:freq HT40+ HT40-2.4 GHz 2412 to 2452 2432 to 24725 GHz 5180, 5220, 5260, etc. 5200, 5240, 5280, etc.

Enumeration	ht40Plus (1) ht20 (0) ht40Minus (2)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.1.1.5

1.1.10.17 cfgWlanDevFrequency



Wireless Frequency in MHz. This field will be overridden when in STA mode and a frequency listhas been specified in cfgWlanlfaceScanList.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.1.1.6

1.1.10.18 cfgWlanDevPower

AP STA

Wireless Output Power as combined power ofall chains in dBm including antenna gain. (EIRP). Remarks:

For a setup with two antennas the transmission power on each antenna-port

is approximately 3dB lower than combined transmission power.

Status	current
Range	6 - 30
Oid	1.3.6.1.4.1.41524.1.1.1.3.1.1.8

1.1.10.19 cfgWlanInterfaceTable

Wireless Virtual Interfaces.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.2

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1.1.10.20 cfgWlanInterfaceTableEntry

Wireless Virtual Interface Entry.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.2.1

1.1.10.21 cfgWlanlfaceIndex

Entry index of Table

Status	current
Range	0 - 15
Oid	1.3.6.1.4.1.41524.1.1.1.3.2.1.1

1.1.10.22 cfgWlanlfaceDtim



This attribute shall specify the number of beaconintervals that shall elapse between transmission ofBeacons frames containing a TIM element whose DTIMCount field is 0. This value is transmitted in the DTIM Period field of Beacon frames.

Status	current
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.3.2.1.10

1.1.10.23 cfgWlanlfaceBitrates



Fixed MCS index for 802.11n rates. Set to -1 to disable (leave on auto). Allows to enter multipleindices divided by a space which are then used in autorate. This entry is only active when an n-rate is set incfgWlanDevModulation (not g-rate or a-rate).

Status	current
Туре	DisplayString
Oid	1.3.6.1.4.1.41524.1.1.1.3.2.1.11

1.1.10.24 cfgWlanlfaceBeaconInterval



Time in kus (1.024 ms) between the sending of beacon frames.

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Status	current
Range	15 - 1000
Oid	1.3.6.1.4.1.41524.1.1.1.3.2.1.12

1.1.10.25 cfgWlanlfaceWmeParameter

Reference ID to the WME parameter table. Uses all parameters in the cfgWlanWmeTable which have as cfgWlanWmeId the value set here.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.2.1.13

1.1.10.26 cfgWlanlfaceWmeEnabled

(AP)

Enables usage of the WME parameter table. When using legacy rates(a-rates and g-rates) this is optional. When using n-rates this always has to be enabled.

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.2.1.14

1.1.10.27 cfgWlanlfaceScanList

STA

Index to specify a frequency list with frequencies to be scannedwhen in STA mode. To disable set to -1

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.2.1.15

1.1.10.28 cfgWlanlfaceBlockedList

NOT IMPLEMENTED.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.2.1.16

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1.1.10.29 cfgWlanlfaceUsableList

NOT IMPLEMENTED.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.2.1.17

1.1.10.30 cfgWlanlfacelgnoreBroadcastSsid



Send empty SSID in beacons and ignore probe request frames that do not specify the full SSID, i.e., require stations to know SSID.

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.2.1.18

1.1.10.31 cfgWlanlfaceMacaddrAcl



Mode of the MAC access control list:0: Accept unless deny filter. Accept every MAC unless it is on the list defined in cfgWlanAclBlackTable.1: Deny unless accept filter. Deny every MAC unless it is on the list defined in cfgWlanAclWhiteTable.2: Use RADIUS to accept/deny clients.

Enumeration	acceptunlessdeny (0) radius (2) denyunlessaccept (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.2.1.19

1.1.10.32 cfgWlanlfaceName

AP STA

Name of the virtual wireless interface.

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.3.2.1.2

1.1.10.33 cfgWlanlfaceMaxNumSta





Maximum number of allowed stations which can connect to this AP.

Status	current
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.3.2.1.20

1.1.10.34 cfgWlanlfaceBssid



BSSID of AP. Set 00:00:00:00:00:00:00 to use the MAC-address stored in the flash of the wireless card itself. If this is the secondvirtual AP on this card it will automatically set the locally assigned bit. If there are more than 2 virtual APs on a single cardthis field MUST be set. Shall be in the format: 00:14:5a:02:10:42

Status	current
Туре	DisplayString
Range	17 - 17
Oid	1.3.6.1.4.1.41524.1.1.1.3.2.1.21

1.1.10.35 cfgWlanlfaceLegacyRates

AP STA

Wireless legacy data rates:

- 11b: 1, 2, 5.5, 11 Mbps
- 11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

The values are interpreted as flags:

- auto(0), 1Mbps(1), 2Mbps(2), 5.5Mbps(4), 6Mbps(8), 9Mbps(16),
- 11Mbps(32), 12Mbps(64), 18Mbps(128), 24Mbps(256), 36Mbps(512),
- 48Mbps(1024), 54Mbps(2048)

Status	current
Range	0 - 2048
Oid	1.3.6.1.4.1.41524.1.1.1.3.2.1.22

1.1.10.36 cfgWlanlface4addr



AP STA

This option allows to bridge the STA side. When used on the STA, the corresponding AP has to enable this feature as well.

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.2.1.23

1.1.10.37 cfgWlanlface4addrBridge



Specify to which bridge connecting 4addr clients shall be added. Make sure that the bridge specified for the parent interfaceis not the same as the bridge for the 4addr clients, otherwisebridge-loops can and will occur. Normal usecase would be:eth0: br0 (0)eth1: br0 (0)wlan0: not bridged (-1)4addrBridge: br0 (0)

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.2.1.24

1.1.10.38 cfgWlanlfaceDevice

(AP) (STA)

Maps the virtual wireless interface to the radio device.

Enumeration	radio0 (0) radio1 (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.2.1.3

1.1.10.39 cfgWlanlfaceMode

Wireless Operation Mode. Allowed modes are:0: AP1: STA2: MONITOR

Enumeration	ap (0) sta (1) monitor (2)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.2.1.4

1.1.10.40 cfgWlanlfaceSsid

AP STA

The Service Set Identifier (SSID) of the wireless interface is the arbitrary name of the wireless network this interface part of.

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Status	current
Туре	DisplayString
Range	1 - 32
Oid	1.3.6.1.4.1.41524.1.1.1.3.2.1.5

1.1.10.41 cfgWlanlfaceEncryption

AP STA

Wireless Encryption Mode. Two encryption modes are supported: open(0) and wpa2(3)

Enumeration	open (0) wpa2 (3)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.2.1.6

1.1.10.42 cfgWlanlfacePassword

AP STA

Wireless password if an encryption is in use.

Status	current
Туре	DisplayString
Range	8 - 63
Oid	1.3.6.1.4.1.41524.1.1.1.3.2.1.7

1.1.10.43 cfgWlanlfacePassiveScanning

(STA)

Wireless Scanning Mode:If the scanning mode is set to active(0) the station will send a probe request to detect available access points if it's allowed by the country code. If the scanning mode is set to passive(1) the station will alwaysperform passive scanning to detect available access points.

Enumeration	passive (1) active (0)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.2.1.8

1.1.10.44 cfgWlanlfaceBeaconMiss

(STA)

Number of misses on consecutive beacons before the stationwill disconnect from the associated access point.



Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.2.1.9

1.1.10.45 cfgWlanHandoffTable

Wireless Handoff Parameters.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.3

1.1.10.46 cfgWlanHandoffTableEntry

Wireless Handoff Parameters Entry.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.3.1

1.1.10.47 cfgWlanHolndex

Entry index of Table.

Status	current
Range	0 - 15
Oid	1.3.6.1.4.1.41524.1.1.1.3.3.1.1

1.1.10.48 cfgWlanHoScanRateLimitTime



Time in ms (jiffy steps) in which a number of attempts to connectto an AP can be tried.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.3.1.12

1.1.10.49 cfgWlanHoScanRateLimitTries



Number of attempts to connect to an AP before the AP is blacklisted and ignored. The AP is removed from the blacklist aftercfgWlanHoScanRateLimitTime since the first attempt.

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Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.3.1.13

1.1.10.50 cfgWlanHolfaceName



Name of the virtual wireless interface.

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.3.3.1.2

1.1.10.51 cfgWlanHoEnabled



Neratec improved handoff feature.

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.3.1.3

1.1.10.52 cfgWlanHoScanningLevel



When the RSSI level of the currently connected access point dropsbelow the value configured in this parameter, the STA will scanfor a better access points on all frequencies specified by thescanlist configured in cfgWlanlfaceScanList and cfgWlanFreqTable.

Status	current
Range	0 - 95
Oid	1.3.6.1.4.1.41524.1.1.1.3.3.1.5

1.1.10.53 cfgWlanHoBeacons



Number of beacons which have to be received from an AP before adecision about handoff is allowed. Essentially forces the STA tostay on a given AP for <cfgWlanHoBeacons * cfgWlanlfaceBeaconInterval>before doing another handoff.



Status	current
Range	4 - 20
Oid	1.3.6.1.4.1.41524.1.1.1.3.3.1.6

1.1.10.54 cfgWlanHoRecovery



Recovery time [ms] after a successful handoff. During this timeno further handoff will be executed.

Status	current
Range	0 - 2000
Oid	1.3.6.1.4.1.41524.1.1.1.3.3.1.7

1.1.10.55 cfgWlanFreqTable

Frequency list entry.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.4

1.1.10.56 cfgWlanFreqTableEntry

Frequency list entry.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1

1.1.10.57 cfgWlanFIndex

Entry index of Table

Status	current
Range	0 - 23
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1.1

1.1.10.58 cfgWlanFFreq8



Frequency, 0 is interpreted as empty.



Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1.10

1.1.10.59 cfgWlanFFreq9

AP STA

Frequency, 0 is interpreted as empty.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1.11

1.1.10.60 cfgWlanFFreq10

AP STA

Frequency, 0 is interpreted as empty.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1.12

1.1.10.61 cfgWlanFFreq11

AP STA

Frequency, 0 is interpreted as empty.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1.13

1.1.10.62 cfgWlanFFreq12

AP STA

Frequency, 0 is interpreted as empty.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1.14

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1.1.10.63 cfgWlanFFreq13

AP STA

Frequency, 0 is interpreted as empty.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1.15

1.1.10.64 cfgWlanFFreq14

AP STA

Frequency, 0 is interpreted as empty.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1.16

1.1.10.65 cfgWlanFFreq15

AP STA

Frequency, 0 is interpreted as empty.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1.17

1.1.10.66 cfgWlanFFreq16

AP STA

Frequency, 0 is interpreted as empty.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1.18

1.1.10.67 cfgWlanFFreq17

AP STA

Frequency, 0 is interpreted as empty.



Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1.19

1.1.10.68 cfgWlanFFreq0

Frequency, 0 is interpreted as empty.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1.2

1.1.10.69 cfgWlanFFreq18



Frequency, 0 is interpreted as empty.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1.20

1.1.10.70 cfgWlanFFreq19

AP STA

Frequency, 0 is interpreted as empty.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1.21

1.1.10.71 cfgWlanFFreq20

AP STA

Frequency, 0 is interpreted as empty.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1.22

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1.1.10.72 cfgWlanFFreq21

AP STA

Frequency, 0 is interpreted as empty.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1.23

1.1.10.73 cfgWlanFFreq22

AP STA

Frequency, 0 is interpreted as empty.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1.24

1.1.10.74 cfgWlanFFreq23

AP STA

Frequency, 0 is interpreted as empty.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1.25

1.1.10.75 cfgWlanFFreq1

AP STA

Frequency, 0 is interpreted as empty.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1.3

1.1.10.76 cfgWlanFFreq2

AP STA

Frequency, 0 is interpreted as empty.



Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1.4

1.1.10.77 cfgWlanFFreq3

AP STA

Frequency, 0 is interpreted as empty.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1.5

1.1.10.78 cfgWlanFFreq4

AP STA

Frequency, 0 is interpreted as empty.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1.6

1.1.10.79 cfgWlanFFreq5

AP STA

Frequency, 0 is interpreted as empty.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1.7

1.1.10.80 cfgWlanFFreq6

AP STA

Frequency, 0 is interpreted as empty.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1.8

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1.1.10.81 cfgWlanFFreq7

AP STA

Frequency, 0 is interpreted as empty.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.4.1.9

1.1.10.82 cfgWlanWmeTable

(AP)

Wireless Multimedia Extensions (WME) based on the IEEE802.11e standard. It provides basic Quality of service(QoS) features to IEEE 802.11 networks.

The levels of priority in EDCA are called accesscategories (ACs). The contention window (CW) can be setaccording to the traffic expected in each access category, with a wider window needed for categories with heaviertraffic.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.5

1.1.10.83 cfgWlanWmeTableEntry

WME Entry.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.5.1

1.1.10.84 cfgWlanWmeIndex

(AP)

Entry index of Table.

Status	current
Range	0 - 32
Oid	1.3.6.1.4.1.41524.1.1.1.3.5.1.1

1.1.10.85 cfgWlanWmeApAifs



Arbitration inter-frame space.Is used on the AP itself.

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Status	current
Range	0 - 15
Oid	1.3.6.1.4.1.41524.1.1.1.3.5.1.10

1.1.10.86 cfgWlanWmeApBurst

(AP

Maximum length for bursting (equivalent to TxOpLimit). This value is in units of 32us. Is used on the AP itself.

Status	current
Range	0 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.3.5.1.11

1.1.10.87 cfgWlanWmeld

(AP)

ID of the WME parameter table. The virtual wireless interfacereferences to this ID.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.1.3.5.1.2

1.1.10.88 cfgWlanWmeAc

(AP)

Access Category.

Enumeration	besteffort (2) background (1) none (0) voice (4) video (3)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.5.1.3

1.1.10.89 cfgWlanWmeCwMin



Contention window minimum in exponential form. Is used on STAs connected to this AP.\$ Real value equal to (2^n)-1.\$

Status	current
Range	1 - 15
Oid	1.3.6.1.4.1.41524.1.1.1.3.5.1.4

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1.1.10.90 cfgWlanWmeCwMax



Contention window maximum in exponential form. Is used on STAs connected to this AP.\$ Real value equal to (2^n)-1.\$

Status	current
Range	1 - 15
Oid	1.3.6.1.4.1.41524.1.1.1.3.5.1.5

1.1.10.91 cfgWlanWmeAifs



Arbitration inter-frame space. Is used on STAs connected to this AP.

Status	current
Range	0 - 15
Oid	1.3.6.1.4.1.41524.1.1.1.3.5.1.6

1.1.10.92 cfgWlanWmeTxOpMax



A Transmit Opportunity (TXOP) is a bounded time intervalduring which a station can send as many frames as possible(as long as the duration of the transmissions does notextend beyond the maximum duration of the TXOP). A value of 0 indicates that a single MSDU or MMPDU in additionto a possible RTS/CTS or CTS to itself may be transmitted atany PHY rate for each TXOP. This value is in units of 32us. Is used on STAs connected to this AP.

Status	current
Range	0 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.3.5.1.7

1.1.10.93 cfgWlanWmeApCwMin



Contention window minimum. Allowed values: (1, 3, 7, 15, 31, 63, 127, 255, 511, 1023). Is used on the AP itself.

Status	current
Range	1 - 1023
Oid	1.3.6.1.4.1.41524.1.1.1.3.5.1.8

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1.1.10.94 cfgWlanWmeApCwMax



Contention window maximum. Allowed values: (1, 3, 7, 15, 31, 63, 127, 255, 511, 1023) cwMax has to be more than or equal to cwMin. Is used on the AP itself.

Status	current
Range	1 - 1023
Oid	1.3.6.1.4.1.41524.1.1.1.3.5.1.9

1.1.10.95 cfgWlanDbgTable

Wireless Handoff Debug Parameters.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.6

1.1.10.96 cfgWlanDbgTableEntry

Wireless Handoff Debug Parameters Entry.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.6.1

1.1.10.97 cfgWlanDbgIndex

Entry index of Table.

Status	current
Range	0 - 1
Oid	1.3.6.1.4.1.41524.1.1.1.3.6.1.1

1.1.10.98 cfgWlanDbgRatelimit



Persistent default value to enable/disable the rate limiter messages in syslog. These log messages are subject to change. DO NOT PARSE!

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.6.1.10

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1.1.10.99 cfgWlanDbglfaceName

Name of the virtual wireless interface.

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.3.6.1.2

1.1.10.100 cfgWlanDbgHandoff



Persistent default value to enable/disable the handoff messages in syslog. These log messages are subject to change. DO NOT PARSE!

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.6.1.3

1.1.10.101 cfgWlanDbgScan



Persistent default value to enable/disable the scan messages in syslog. These log messages are subject to change. DO NOT PARSE!

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.6.1.4

1.1.10.102 cfgWlanDbgMlme



Persistent default value to enable/disable the MLME messages in syslog. These log messages are subject to change. DO NOT PARSE!

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.6.1.5

1.1.10.103 cfgWlanDbgEvents



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Persistent default value to enable/disable the events messages in syslog. These log messages are subject to change. DO NOT PARSE!

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.6.1.6

1.1.10.104 cfgWlanDbgBeaconrssi



Persistent default value to enable/disable the beacon RSSI messages in syslog. These log messages are subject to change. DO NOT PARSE!

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.6.1.7

1.1.10.105 cfgWlanDbgAckrssi



Persistent default value to enable/disable the ACK RSSI messages in syslog. These log messages are subject to change. DO NOT PARSE!

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.6.1.8

1.1.10.106 cfgWlanDbgBeaconfiltered



Persistent default value to enable/disable the beacon filtered RSSI messages in syslog. These log messages are subject to change. DO NOT PARSE!

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.6.1.9

1.1.10.107 cfgWlanAclWhiteTable

Wireless MAC Access Control Whitelist

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Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.7

1.1.10.108 cfgWlanAclWhiteTableEntry

Wireless MAC Access Control Whitelist Entry.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.7.1

1.1.10.109 cfgWlanAclWhiteIndex

Entry index of Table.

Status	current
Range	0 - 63
Oid	1.3.6.1.4.1.41524.1.1.1.3.7.1.1

1.1.10.110 cfgWlanAclWhiteEnabled



Enable this entry in the ACL.

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.7.1.2

1.1.10.111 cfgWlanAclWhiteInterface



Name of the virtual wireless interface on which this entry is active.

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.3.7.1.3

1.1.10.112 cfgWlanAclWhiteAddr



MAC address in the ACL.Shall be in the format: 00:14:5a:02:10:42

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Status	current
Туре	DisplayString
Range	17 - 17
Oid	1.3.6.1.4.1.41524.1.1.1.3.7.1.4

1.1.10.113 cfgWlanAclWhiteMask



Mask of the MAC address to be able to specify ranges of MAC addresses. To be used like CIDR notation of IP addresses.

Status	current
Range	0 - 48
Oid	1.3.6.1.4.1.41524.1.1.1.3.7.1.5

1.1.10.114 cfgWlanAclBlackTable

Wireless MAC Access Control Blacklist.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.8

1.1.10.115 cfgWlanAclBlackTableEntry

Wireless MAC Access Control Blacklist Entry.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.8.1

1.1.10.116 cfgWlanAclBlackIndex

Entry index of Table.

Status	current
Range	0 - 63
Oid	1.3.6.1.4.1.41524.1.1.1.3.8.1.1

1.1.10.117 cfgWlanAclBlackEnabled



Enable this entry in the ACL.



Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.3.8.1.2

1.1.10.118 cfgWlanAclBlackInterface



Name of the virtual wireless interface on which this entry is active.

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.3.8.1.3

1.1.10.119 cfgWlanAclBlackAddr



MAC address in the ACL.Shall be in the format: 00:14:5a:02:10:42

Status	current
Туре	DisplayString
Range	17 - 17
Oid	1.3.6.1.4.1.41524.1.1.1.3.8.1.4

1.1.10.120 cfgWlanAclBlackMask



Mask of the MAC address to be able to specify ranges of MAC addresses. To be used like CIDR notation of IP addresses.

Status	current
Range	0 - 48
Oid	1.3.6.1.4.1.41524.1.1.1.3.8.1.5

1.1.10.121 cfgWlanGlobal

1.1.10.121.1 cfgWlanGlblCountry

AP STA

Wireless Country Code.



Access	readwrite
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.3.9.1

1.1.11 cfgRouting

1.1.11.1 cfgRouteDefault

1.1.11.1.1 cfgRouteDefGateway



The default gateway defines the node on an IP network that serves as a router for any other network which is not defined in therouting table.

Access	readwrite
Status	current
Туре	IpAddress
Oid	1.3.6.1.4.1.41524.1.1.1.4.1.1

1.1.11.1.2 cfgRouteDefGwOverride

AP STA

Override a previously via DHCP received default gateway with the value in cfgRouteDefGateway.If this is disabled and a default gateway already exists it will not be changed.

Enumeration	disabled (0) enabled (1)
Access	readwrite
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.4.1.2

1.1.11.1.3 cfgRouteTable

AP STA

Static Routes

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.4.2

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1.1.11.1.4 cfgRouteTableEntry

AP STA

Static Route.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.4.2.1

1.1.11.1.5 cfgRouteTableIndex

Entry index of Table.

Status	current
Range	0 - 265
Oid	1.3.6.1.4.1.41524.1.1.1.4.2.1.1

1.1.11.1.6 cfgRouteTableEnabled

AP STA

Enable/Disable this route entry.

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.4.2.1.2

1.1.11.1.7 cfgRouteTableDestination

AP STA

Destination network ID.

Status	current
Туре	IpAddress
Oid	1.3.6.1.4.1.41524.1.1.1.4.2.1.3

1.1.11.1.8 cfgRouteTableNetmask

AP STA

Netmask of destination network.

Status	current
Туре	IpAddress
Oid	1.3.6.1.4.1.41524.1.1.1.4.2.1.4

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1.1.11.1.9 cfgRouteTableGateway

AP STA

Gateway to destination network.

Status	current
Туре	IpAddress
Oid	1.3.6.1.4.1.41524.1.1.1.4.2.1.5

1.1.11.1.10 cfgRouteTableSource

AP STA

Source for traffic to destination network.(optional, use only if you have multiple possible source with aliases).

Status	current
Туре	IpAddress
Oid	1.3.6.1.4.1.41524.1.1.1.4.2.1.6

1.1.11.1.11 cfgRouteTableProto

AP STA

Specifies what kind of route is added. The types are defined in /etc/iproute2/rt_protosBy default we use proto 4 - staticlf anything besides 4, or the range 17-245 is used, make sure to update the removeRoutes function in /etc/init.d/routing

Reserved protocols:

- 0 unspec
- 1 redirect
- 2 kernel
- 3 boot
- 4 static
- 8 gated
- 9 ra
- 10 mrt
- 11 zebra



- 12 bird
- 13 dnrouted
- 14 xorp
- 15 ntk
- 16 dhcp

Used by me for gated:

- 254 gated/aggr
- 253 gated/bgp
- 252 gated/ospf
- 251 gated/ospfase
- 250 gated/rip
- 249 gated/static
- 248 gated/conn
- 247 gated/inet
- 246 gated/default

Status	current
Range	0 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.4.2.1.7

1.1.11.1.12 cfgMRouteTable

Static Multicast Routes.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.4.3

1.1.11.1.13 cfgMRouteTableEntry

Static Mulicast Routes.



Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.4.3.1

1.1.11.1.14 cfgMRouteTableIndex

Entry index of Table.

Status	current
Range	0 - 9
Oid	1.3.6.1.4.1.41524.1.1.1.4.3.1.1

1.1.11.1.5 cfgMRouteTableEnabled

AP STA

Enable/Disable this multicast route entry.

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.1.4.3.1.2

1.1.11.1.16 cfgMRouteTableInput

AP STA

Input interface

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.4.3.1.3

1.1.11.1.17 cfgMRouteTableSource

AP STA

Unicast source address to listen for.

Status	current
Туре	IpAddress
Oid	1.3.6.1.4.1.41524.1.1.1.4.3.1.4

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1.1.11.1.18 cfgMRouteTableGroup

AP STA

Multicast group to forward.

Status	current
Туре	IpAddress
Oid	1.3.6.1.4.1.41524.1.1.1.4.3.1.5

1.1.11.1.19 cfgMRouteTableOutput

AP STA

Output interface(s). Can be a list of interface names.

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.1.4.3.1.6

1.1.12 cfglpTables

1.2 rpc

1.2.1 rpcConfiguration

1.2.1.1 rpcCfgRevert

AP STA

In case there are any changes in the configuration section, whichare not applied yet, they can be all reverted by writing all(1) to this parameter.

Reading this parameter will indicate the status of the last rpc. If the value is less then 0 an error occurred. A value of 0 isreported when the revert process was successful.

Enumeration	all (1) nop (0)
Access	readwrite
Status	current
Oid	1.3.6.1.4.1.41524.1.1.3.1.1

1.2.1.2 rpcCfgApply



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All changes to any parameter in the configuration section have tobe applied before they come into operation. To apply all newparameters to the device, set this parameter to all(1).

Reading this parameter will show the status of the apply process. A value less then 0 indicates that there occurred an error during the last apply process, nop(0) means no operation and points out that there is no apply process in operation and no error has occurred. Incase the return value is all(1) the apply process is still running.

Enumeration	all (1) nop (0)
Access	readwrite
Status	current
Oid	1.3.6.1.4.1.41524.1.1.3.1.2

1.2.1.3 rpcCfgReset



Reset configuration to default values.

Enumeration	all (1) nop (0)
Access	readwrite
Status	current
Oid	1.3.6.1.4.1.41524.1.1.3.1.3

1.2.1.4 rpcCfgFile

AP STA

Export or import a configuration to or from a file respectively. Please refer to setCfgFileUrl for more information on howto set the configuration file.

Enumeration	export (1) import (2) nop (0)
Access	readwrite
Status	current
Oid	1.3.6.1.4.1.41524.1.1.3.1.4

1.2.2 rpcFirmware

1.2.2.1 rpcFwFlash

(AP) (STA)

To flash a new firmware to the device define a valid URL that isaccessible by the device. Change the firmware URL parametersetFwFileUrl in the settings section, if needed.

Writing flash(2) to this parameter will download and validate thenew firmware file. When the downloaded file is considered as avalid firmware for this device, it will be flashed to the filesystem of the

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device.

Reading this parameter will report the status of the firmware flashprocess. A value of flash_error(-2) points out that the flashprocess failed during the writing of the firmware file to the filesystem. A return value of download_error(-1) indicates an errorwhile the firmware was downloaded or validated. A value of flash(2)means that the device is writing the firmware to the file system.

Enumeration	flash (2) flashError (-2) nop (0) download (1) downloadError (-1)
Access	readwrite
Status	current
Oid	1.3.6.1.4.1.41524.1.1.3.2.1

1.2.3 rpcSystem

1.2.3.1 rpcSysReboot

AP STA

Reboot system after n seconds.

Access	readwrite
Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.3.3.1

1.2.3.2 rpcSysFactoryReset

AP STA

Perform a factory reset. All settings are reset to the factory settings.NOTE: You will not be able to communicat with the device until the factory reset has finished and the device has booted again.

Enumeration	reset (1) nop (0)
Access	readwrite
Status	current
Oid	1.3.6.1.4.1.41524.1.1.3.3.2

1.2.3.3 rpcSysErrorReset



Writing reset(1) to this parameter will reset all logged warning and errorsof the system. It will also reset the LED settings to be normal operating states

Reading this parameter will report the status of the system. A value error (-2) indicates that an serious error apears during running the device A value warning (-1) indicate a behavior that should have be cared about The value nop (0) mean no warning or error was reported.

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Enumeration	warning (-1) reset (1) error (-2) nop (0)
Access	readwrite
Status	current
Oid	1.3.6.1.4.1.41524.1.1.3.3.3

1.2.4 rpcCertificate

1.2.4.1 rpcCrtFile

AP STA

Import or export a HTTPS certification/key to or from a file respectively. Please refer to setCrtFileUrl for more information on howto set the certification/key file URL.

Enumeration	import (1) delete (0) export (2)
Access	readwrite
Status	current
Oid	1.3.6.1.4.1.41524.1.1.3.4.1

1.3 settings

1.3.1 setConfiguration

1.3.1.1 setCfgFileUrl

AP STA

The configuration file URL defines to or from which location the configuration file will be exported or imported, e.g. tftp://192.168.1.1/dt50.cfg. At the moment only TFTP protocol issupported.

Access	readwrite
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.4.1.1

1.3.2 setWireless

1.3.2.1 setWlanDeviceTable

Wireless Hardware Modules.



Status	current
Oid	1.3.6.1.4.1.41524.1.1.4.3.1

1.3.2.2 setWlanDeviceTableEntry

Wireless Hardware Module.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.4.3.1.1

1.3.2.3 setWlanDevIndex

Entry index of Table

Status	current
Range	0 - 1
Oid	1.3.6.1.4.1.41524.1.1.4.3.1.1.1

1.3.2.4 setWlanDevName

Name of the wireless device

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.4.3.1.1.2

1.3.2.5 setWlanDevRfOutput

Enable/disable RF output.

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.4.3.1.1.3

1.3.2.6 setWlanDevModulation

Wireless Modulation Mode

Enumeration	nb (9) g (2) a (4) nbg (11) na (12) bg (3) b (1) ng (10)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.4.3.1.1.4

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1.3.2.7 setWlanDevBandwidth

Wireless Bandwidth Mode

Enumeration	ht40Plus (1) ht20 (0) ht40Minus (2)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.4.3.1.1.5

1.3.2.8 setWlanDevFrequency

Wireless Frequency

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.4.3.1.1.6

1.3.2.9 setWlanDevPower

Wireless Output Power

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.4.3.1.1.8

1.3.2.10 setWlanDbgTable

Wireless Handoff Debug Parameters

Status	current
Oid	1.3.6.1.4.1.41524.1.1.4.3.6

1.3.2.11 setWlanDbgTableEntry

Wireless Handoff Debug Parameters Entry

Status	current
Oid	1.3.6.1.4.1.41524.1.1.4.3.6.1

1.3.2.12 setWlanDbgIndex

Entry index of Table



Status	current
Range	0 - 1
Oid	1.3.6.1.4.1.41524.1.1.4.3.6.1.1

1.3.2.13 setWlanDbglfaceName

Name of the virtual wireless interface

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.4.3.6.1.2

1.3.2.14 setWlanDbgHandoff

Volatile setting to enable/disable the Handoff Messages in syslog

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.4.3.6.1.3

1.3.2.15 setWlanDbgScan

Volatile setting to enable/disable the Scan Messages in syslog

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.4.3.6.1.4

1.3.2.16 setWlanDbgMlme

Volatile setting to enable/disable the Mlme Messages in syslog

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.4.3.6.1.5

1.3.2.17 setWlanDbgEvents

Volatile setting to enable/disable the Events Messages in syslog

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Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.4.3.6.1.6

1.3.2.18 setWlanDbgBeaconrssi

Volatile setting to enable/disable the Beacon RSSI Messages in syslog

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.4.3.6.1.7

1.3.2.19 setWlanDbgAckrssi

Volatile setting to enable/disable the ACK RSSI Messages in syslog

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.4.3.6.1.8

1.3.2.20 setWlanDbgBeaconfiltered

Volatile setting to enable/disable the Beacon filtered RSSI Messages in syslog

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.4.3.6.1.9

1.3.3 setConfmgmtd

1.3.3.1 setCfgdLogLevel

Log message level of the Configuration Management Daemon

Enumeration	disabled (0) warning (2) error (1) debug (4) info (3)
Access	readwrite
Status	current
Oid	1.3.6.1.4.1.41524.1.1.4.4.1

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1.3.4 setFirmware

1.3.4.1 setFwFileUrl

AP STA

Download firmware from this URL.

Access	readwrite
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.4.5.1

1.3.4.2 setFwKeepConfig

AP STA

Try to import configuration from the previous firmware version.

Enumeration	keep (1) reset (0)
Access	readwrite
Status	current
Oid	1.3.6.1.4.1.41524.1.1.4.5.2

1.3.5 setCertificate

1.3.5.1 setCrtFileUrl

AP STA

The certification/key (for HTTPS) file-URL definesto or from which location the certification/key file willbe downloaded or uploaded, e.g. tftp://192.168.1.1/sw6-uttpd.crtAt the moment only the TFTP protocol is supported.

Access	readwrite
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.4.6.1

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1.4 hardware

1.4.1 hwSystem

1.4.1.1 hwSysProduct

Product Type

Access	readonly
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.5.1.1

1.4.1.2 hwSysSerial

Serial number of the product

Access	readonly
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.5.1.2

1.4.1.3 hwSysRevision

ERP Revision of the product

Access	readonly
Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.5.1.3

1.4.1.4 hwSysVersion

Version of the product

Access	readonly
Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.5.1.4



1.4.2 hwBaseBoard

1.4.2.1 hwBbType

Product type of the DT50 base board

Access	readonly
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.5.10.1

1.4.2.2 hwBbSerial

Serial number of the DT50 base board

Access	readonly
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.5.10.2

1.4.2.3 hwBbRevision

ERP Revision of the DT50 base board

Access	readonly
Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.5.10.3

1.4.2.4 hwBbVersion

Version of the DT50 base board

Access	readonly
Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.5.10.4

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1.4.2.5 hwBbPcbld

Hardware Assembly ID (Neratec Specific)

Access	readonly
Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.5.10.5

1.4.2.6 hwBbAssemblyId

Hardware Assembly ID (Neratec Specific)

Access	readonly
Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.5.10.6

1.4.3 hwlfaceBoard

1.4.3.1 hwlfBrdAssembled

Interface board present or not.

Enumeration	present (1) inexistent (0)
Access	readonly
Status	current
Oid	1.3.6.1.4.1.41524.1.1.5.11.1

1.4.3.2 hwlfBrdType

Product type of the interface board

Access	readonly
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.5.11.2

1.4.3.3 hwlfBrdSerial



Serial number of the interface board

Access	readonly
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.5.11.3

1.4.3.4 hwlfBrdRevision

ERP Revision of the interface board (Neratec Specific)

Access	readonly
Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.5.11.4

1.4.3.5 hwlfBrdVersion

Version of the interface board (Neratec Specific)

Access	readonly
Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.5.11.5

1.4.3.6 hwlfBrdPcbld

Hardware Assembly ID (Neratec Specific)

Access	readonly
Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.5.11.6

1.4.3.7 hwlfBrdAssemblyld

Hardware Assembly ID (Neratec Specific)

Access	readonly
Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.5.11.7



1.4.4 hwNetwork

1.4.4.1 hwNetEthernetTable

Ethernet Network Interfaces

Status	current
Oid	1.3.6.1.4.1.41524.1.1.5.2.1

1.4.4.2 hwNetEthernetTableEntry

Ethernet Network Interface

Status	current
Oid	1.3.6.1.4.1.41524.1.1.5.2.1.1

1.4.4.3 hwNetEthIndex

Entry index of table

Status	current
Range	0 - 2
Oid	1.3.6.1.4.1.41524.1.1.5.2.1.1.1

1.4.4.4 hwNetEthName

Name of the ethernet interface

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.5.2.1.1.2

1.4.4.5 hwNetEthAssembled

Ethernet interface present or not.

Enumeration	present (1) inexistent (0)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.5.2.1.1.3

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1.4.4.6 hwNetEthMacAddress

Ethernet MAC address.

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.5.2.1.1.4

1.4.4.7 hwNetEthOperation

Ethernet interface plugged of unplugged

Enumeration	up (1) down (0)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.5.2.1.1.5

1.4.4.8 hwNetEthSpeed

Ethernet speed

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.5.2.1.1.6

1.4.5 hwWireless

1.4.5.1 hwWlanDeviceTable

Hardware information of the wireless LAN Devices.

Status	current
Oid	1.3.6.1.4.1.41524.1.1.5.3.1

1.4.5.2 hwWlanDeviceTableEntry

Wireless LAN Devices

Status	current
Oid	1.3.6.1.4.1.41524.1.1.5.3.1.1

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1.4.5.3 hwWlanDevIndex

Entry index of table

Status	current
Range	0 - 1
Oid	1.3.6.1.4.1.41524.1.1.5.3.1.1.1

1.4.5.4 hwWlanDevAssembled

Wireless device present or not.

Enumeration	present (1) inexistent (0)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.5.3.1.1.2

1.4.5.5 hwWlanDevType

Type of the wireless device

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.5.3.1.1.3

1.4.5.6 hwWlanDevSerial

Serial Number / Customer Field

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.5.3.1.1.4

1.4.5.7 hwWlanDevRevision

ERP Revision of the RF board. (Neratec Specific)

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.5.3.1.1.5

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1.4.5.8 hwWlanDevVersion

Version of the RF board (Neratec Specific)

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.5.3.1.1.6

1.4.5.9 hwWlanDevPcbld

Hardware Assembly ID (Neratec Specific)

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.5.3.1.1.7

1.4.5.10 hwWlanDevAssemblyId

Hardware Assembly ID (Neratec Specific)

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.5.3.1.1.8

1.4.5.11 hwWlanDevMacAddress

MAC Address

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.5.3.1.1.9

1.5 software

1.5.1 swFirmware

1.5.1.1 swFwName

Firmware Name



Access	readonly
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.6.2.1

1.5.1.2 swFwVersion

Firmware Name

Access	readonly
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.6.2.2

1.5.1.3 swFwRevision

Firmware Name

Access	readonly
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.6.2.3

1.5.2 swBootloader

1.5.2.1 swBootName

Name of the bootloader.

Access	readonly
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.6.20.1

1.5.2.2 swBootVersion

Version of the bootloader.



Access	readonly
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.6.20.2

1.5.2.3 swBootBuildDate

Date when the bootloader was built.

Access	readonly
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.6.20.3

1.5.3 swSystem

1.5.3.1 swSysRebootReason

Reason for the reboot of the system.

Enumeration	warmstart (1) watchdog (2) unknown (9) coldstart (0) oops (3)
Access	readonly
Status	current
Oid	1.3.6.1.4.1.41524.1.1.6.3.1

1.5.3.2 swSysMessageTable

System messages (e.g. errors, warnings)

Status	current
Oid	1.3.6.1.4.1.41524.1.1.6.3.100

1.5.3.3 swSysMessageTableEntry

System message entry

Status	current
Oid	1.3.6.1.4.1.41524.1.1.6.3.100.1

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1.5.3.4 swSysMsgIndex

Entry index of Table

Status	current
Range	0 - 64
Oid	1.3.6.1.4.1.41524.1.1.6.3.100.1.1

1.5.3.5 swSysMsgPriority

Message priority/level

Enumeration	warning (4) debug (7) critical (2) alert (1) notice (5) emergency (0) error (3) info (6)
Status	current
Oid	1.3.6.1.4.1.41524.1.1.6.3.100.1.2

1.5.3.6 swSysMsgCode

Message code

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.3.100.1.3

1.5.3.7 swSysMsgText

Message

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.6.3.100.1.4

1.5.4 swOperatingSystem

1.5.4.1 swOsName

Operating System Name



Access	readonly
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.6.4.1

1.5.4.2 swOsVersion

Operating System Version

Access	readonly
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.6.4.2

1.5.4.3 swOsRevision

Operating System Revision

Access	readonly
Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.6.4.3

1.5.4.4 swOsUptime

Uptime of the operating system

Access	readonly
Status	current
Туре	TimeTicks
Oid	1.3.6.1.4.1.41524.1.1.6.4.4

1.5.5 swDriver

1.5.5.1 swDrvDfsTable

DFS Driver Statistics



Status	current
Oid	1.3.6.1.4.1.41524.1.1.6.5.1

1.5.5.2 swDrvDfsTableEntry

DFS Driver Statistics

Status	current
Oid	1.3.6.1.4.1.41524.1.1.6.5.1.1

1.5.5.3 swDrvDfsIndex

Entry index of Table

Status	current
Range	0 - 1
Oid	1.3.6.1.4.1.41524.1.1.6.5.1.1.1

1.5.5.4 swDrvDfsName

Name of the wireless device

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.6.5.1.1.2

1.5.5.5 swDrvDfsPulsesDetected

Pulses detected by the wireless device

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.1.1.3

1.5.5.6 swDrvDfsPulsesProcessed

Pulses processed by the wireless device

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.1.1.4

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1.5.5.7 swDrvDfsRadarDetected

Radar sequences detected by the wireless device

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.1.1.5

1.5.5.8 swDrvCntWlanIfTable

Wireless Interface Driver Statistics

Status	current
Oid	1.3.6.1.4.1.41524.1.1.6.5.3

1.5.5.9 swDrvCntWlanIfTableEntry

Wireless Interface Driver Statistics

Status	current
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1

1.5.5.10 swDrvCntWlanlfIndex

Entry index of Table

Status	current
Range	0 - 1
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1.1

1.5.5.11 swDrvCntWlanIfRxFifoErrors

Number of fifo errors on this wlan interface

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1.10

1.5.5.12 swDrvCntWlanlfRxFrameErrors

Number of frame errors on this wlan interface

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Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1.11

1.5.5.13 swDrvCntWlanlfRxLengthErrors

Number of length errors on this wlan interface

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1.12

1.5.5.14 swDrvCntWlanlfRxMissedErrors

Number of missed errors received on this wlan interface

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1.13

1.5.5.15 swDrvCntWlanlfRxOverErrors

Number of over?? errors received on this wlan interface

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1.14

1.5.5.16 swDrvCntWlanlfRxPackets

Number of packages received on this wlan interface

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1.15

1.5.5.17 swDrvCntWlanIfTxAbortedErrors

Number of errors during the transmision on this wlan interface

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Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1.16

1.5.5.18 swDrvCntWlanIfTxBytes

Number of transmitted bytes on this wlan interface

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1.17

1.5.5.19 swDrvCntWlanIfTxCarrierErrors

Number of carrier errors on this wlan interface

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1.18

1.5.5.20 swDrvCntWlanlfTxCompressed

Number of ?? on this wlan interface

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1.19

1.5.5.21 swDrvCntWlanlfName

Name of the wireless device

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1.2

1.5.5.22 swDrvCntWlanIfTxDropped

Number of packages tx has dropped on this wlan interface

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Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1.20

1.5.5.23 swDrvCntWlanIfTxErrors

Number of errors during the transmision on this wlan interface

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1.21

1.5.5.24 swDrvCntWlanlfTxFifoErrors

Number of fifo errors on this wlan interface

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1.22

1.5.5.25 swDrvCntWlanIfTxHeartbeatErrors

Number of tx heartbeat errors on this wlan interface

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1.23

1.5.5.26 swDrvCntWlanIfTxPackets

Number of tx packets on this wlan interface

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1.24

1.5.5.27 swDrvCntWlanlfTxWindowErrors

Number of tx window errors on this wlan interface

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Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1.25

1.5.5.28 swDrvCntWlanlfCollisions

Number of collisions on this wlan interface

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1.3

1.5.5.29 swDrvCntWlanlfMulticast

Multicasts on this wlan interface

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1.4

1.5.5.30 swDrvCntWlanlfRxBytes

Number of bytes received on this wlan interface

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1.5

1.5.5.31 swDrvCntWlanlfRxCompressed

Number of ?? on this wlan interface

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1.6

1.5.5.32 swDrvCntWlanlfRxCrcErrors

Number of crc errors on this wlan interface



Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1.7

1.5.5.33 swDrvCntWlanlfRxDropped

Number of frame dropped on this wlan interface

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1.8

1.5.5.34 swDrvCntWlanlfRxErrors

Number of rx errors on this wlan interface

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.3.1.9

1.5.5.35 swDrvCntWlanMacTable

Wireless MAC-Layer Statistics

Status	current
Oid	1.3.6.1.4.1.41524.1.1.6.5.4

1.5.5.36 swDrvCntWlanMacTableEntry

Wireless MAC-Layer Statistics

Status	current
Oid	1.3.6.1.4.1.41524.1.1.6.5.4.1

1.5.5.37 swDrvCntWlanMacIndex

Entry index of Table

Status	current
Range	0 - 1
Oid	1.3.6.1.4.1.41524.1.1.6.5.4.1.1

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1.5.5.38 swDrvCntWlanMacRxHandlersDrop

MAC debug entry

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.4.1.10

1.5.5.39 swDrvCntWlanMacRxHandlersQueued

MAC debug entry

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.4.1.11

1.5.5.40 swDrvCntWlanMacRxHandlersDropNullfunc

MAC debug entry

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.4.1.12

1.5.5.41 swDrvCntWlanMacRxHandlersDropDefrag

MAC debug entry

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.4.1.13

1.5.5.42 swDrvCntWlanMacRxHandlersDropShort

MAC debug entry

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.4.1.14



1.5.5.43 swDrvCntWlanMacTxExpandSkbHead

MAC debug entry

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.4.1.15

1.5.5.44 swDrvCntWlanMacTxExpandSkbHeadCloned

MAC debug entry

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.4.1.16

1.5.5.45 swDrvCntWlanMacRxExpandSkbHead

MAC debug entry

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.4.1.17

1.5.5.46 swDrvCntWlanMacRxExpandSkbHead2

MAC debug entry

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.4.1.18

1.5.5.47 swDrvCntWlanMacRxHandlersFragments

MAC debug entry

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.4.1.19

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1.5.5.48 swDrvCntWlanMacName

Name of the wireless device

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.6.5.4.1.2

1.5.5.49 swDrvCntWlanMacTxstatusDrop

MAC debug entry

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.4.1.20

1.5.5.50 swDrvCntWlanMacTxHandlersDrop

MAC debug entry

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.4.1.3

1.5.5.51 swDrvCntWlanMacTxHandlersQueued

MAC debug entry

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.4.1.4

${\bf 1.5.5.52~swDrvCntWlanMacTxHandlersDropUnencrypted}$

MAC debug entry

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.4.1.5

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1.5.5.53 swDrvCntWlanMacTxHandlersDropFragment

MAC debug entry

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.4.1.6

1.5.5.54 swDrvCntWlanMacTxHandlersDropWep

MAC debug entry

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.4.1.7

1.5.5.55 swDrvCntWlanMacTxHandlersDropNotAssoc

MAC debug entry

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.4.1.8

$1.5.5.56 \ swDrvCntWlanMacTxHandlersDropUnauthPort$

MAC debug entry

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.4.1.9

1.5.5.57 swDrvCntWlanWmmTable

Wmm statistics

Status	current
Oid	1.3.6.1.4.1.41524.1.1.6.5.6

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1.5.5.58 swDrvCntWlanWmmTableEntry

Wmm statistics

Status	current
Oid	1.3.6.1.4.1.41524.1.1.6.5.6.1

1.5.5.59 swDrvCntWlanWmmTableIndex

Entry index of Table.

Status	current
Range	0 - 3
Oid	1.3.6.1.4.1.41524.1.1.6.5.6.1.1

1.5.5.60 swDrvCntWlanWmmName

Name of the queue.

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.1.6.5.6.1.2

1.5.5.61 swDrvCntWlanWmmTx

Number of frames sent in this queue.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.6.1.3

1.5.5.62 swDrvCntWlanWmmRx

Number of frames received in this queue.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.6.1.4

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1.5.5.63 swDrvCntWlanWmmShortRetries

Number of retries for frames shorter than RTS.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.6.1.5

1.5.5.64 swDrvCntWlanWmmLongRetries

Number of retries for frames longer than RTS.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.6.1.6

1.5.5.65 swDrvCntWlanWmmExceededRetries

Number of failed transmissions due to exceeding of the retry limit.

Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.5.6.1.7

1.5.6 swRdm

1.5.6.1 swRdmMaxEirp

Maximal equivalent isotropically radiated power (EIRP) in dBm. This value shows the maximal aggregated transmit power over all configured

Access	readonly
Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.6.1

1.5.6.2 swRdmMaxApp

Maximal antenna port power in dBm. This value shows the maximal transmit power of a single chain.



Access	readonly
Status	current
Туре	Integer32
Oid	1.3.6.1.4.1.41524.1.1.6.6.2

MIB Reference: NERATEC-SW6-FIREWALL-MIB

2 Device configuration

2.1 firewall

2.1.1 configuration

2.1.1.1 cfgFwEnabled



Firewall disabled or enabled

Enumeration	disabled (0) enabled (1)
Access	readwrite
Status	current
Oid	1.3.6.1.4.1.41524.1.2.1.1.1

2.1.1.2 cfgFwNat

2.1.1.2.1 cfgFwNatPortForwardTable

Firewall port forward rules table

Status	current
Oid	1.3.6.1.4.1.41524.1.2.1.1.2.1

2.1.1.2.2 cfgFwNatPortForwardTableEntry

Firewall port forward rules table entry.



Status	current
Oid	1.3.6.1.4.1.41524.1.2.1.1.2.1.1

2.1.1.2.3 cfgFwNatPrtFwdIndex

Entry index of port forward table.

Status	current
Range	0 - 255
Oid	1.3.6.1.4.1.41524.1.2.1.1.1.1

2.1.1.2.4 cfgFwNatPrtFwdDestinationPortEnd

AP STA

Destination end port to redirect. When forwarding multiple port, this value is the end of the range. Set to -1 if no range is forwarded. Can only be used with TCP, UCP or TCP/UDP.

Status	current
Range	-1 - 65535
Oid	1.3.6.1.4.1.41524.1.2.1.1.2.1.1.10

2.1.1.2.5 cfgFwNatPrtFwdRedirectDestinationAddress

AP STA

Redirect traffic to this redirection destination address.

Status	current
Туре	IpAddress
Oid	1.3.6.1.4.1.41524.1.2.1.1.2.1.1.11

2.1.1.2.6 cfgFwNatPrtFwdRedirectDestinationPort

AP STA

Redirect traffic to this destionation port. Can only be used with TCP, UCP or TCP/UDP.

Status	current
Range	-1 - 65535
Oid	1.3.6.1.4.1.41524.1.2.1.1.2.1.1.12

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2.1.1.2.7 cfgFwNatPrtFwdEnabled

AP STA

Disable or enable the rule.

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.2.1.1.2

2.1.1.2.8 cfgFwNatPrtFwdInterface

AP STA

Name of the network interface on which the rule applies. Defines on which interface traffic is comming in.

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.2.1.1.2.1.1.3

2.1.1.2.9 cfgFwNatPrtFwdProtocol

AP STA

Choose which IP protocol the rule matches. Allowed protocols are:any(0): Any ip protocol.udp(1): Only UDP protocol.tcp(2): Only TCP protocol.udptcp(3): UDP and TCP protocol.

Enumeration	tcp (2) any (0) udptcp (3) udp (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.2.1.1.2.1.1.4

2.1.1.2.10 cfgFwNatPrtFwdSourceAddress

AP STA

Source address to match. This can be a specific ip address or a range in CIDR notation. Set to 0.0.0.0/0 to match all inbound traffic. Set to 172.17.29.7/32 to match the specific IP 172.17.29.7 You can use! to invert the sense of the rule: E.g. !192.168.0.0/24HINT: Usually you want 0.0.0.0/0.

Status	current
Туре	DisplayString
Range	9 - 19
Oid	1.3.6.1.4.1.41524.1.2.1.1.2.1.1.5

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2.1.1.2.11 cfgFwNatPrtFwdSourcePortStart



Source start port to match. Specify the port or start of a port range from which a connection originates. Can only be used with TCP, UCP or TCP/UDP. Leave this on -1 to disable. You can use! to invert the sense of the rule: E.g. !80When used in a range, the inversion applies to the range. HINT: Usually you want this disabled.

Status	current
Туре	DisplayString
Range	1 - 6
Oid	1.3.6.1.4.1.41524.1.2.1.1.2.1.1.6

2.1.1.2.12 cfgFwNatPrtFwdSourcePortEnd

(AP) (STA)

Destination end port to match. When matching multiple port, this value is the end of the range. Set to -1 if no range is to be matched. Can only be used with TCP, UCP or TCP/UDP. HINT: Usually you want this disabled.

Status	current
Range	-1 - 65535
Oid	1.3.6.1.4.1.41524.1.2.1.1.7

2.1.1.2.13 cfgFwNatPrtFwdDestinationAddress

(AP) (STA)

Destination address to redirect. This can be a specific ip address or a range in CIDR notation. Set to 0.0.0.0/0 to match all inbound traffic on the interfacespecified in cfgFwNatPrtFwdInterface. You can use! to invert the sense of the rule: E.g. !192.168.0.0/24When using static IPs set this to the configured address. of therespective interface or alias you want to forward. HINT: Leave this on 0.0.0.0/0 when using DHCP. Be aware, that setting 0.0.0.0/0 will redirect everything arrivingon the configured interface, even if not sent to the device itself.

Status	current
Туре	DisplayString
Range	9 - 19
Oid	1.3.6.1.4.1.41524.1.2.1.1.2.1.1.8

2.1.1.2.14 cfgFwNatPrtFwdDestinationPortStart



Destionation start port to redirect. Specify the port or start of a port range for the destination. You can

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use! to invert the sense of the rule: E.g. !80When used in a range, the inversion applies to the range. Can only be used with TCP, UCP or TCP/UDP.

Status	current
Range	0 - 65535
Oid	1.3.6.1.4.1.41524.1.2.1.1.9

2.1.1.2.15 cfgFwNatOutboundTable

Firewall outbound NAT rules table

Status	current
Oid	1.3.6.1.4.1.41524.1.2.1.1.2.2

2.1.1.2.16 cfgFwNatOutboundTableEntry

Firewall outbound NAT rules table entry.

Status	current
Oid	1.3.6.1.4.1.41524.1.2.1.1.2.2.1

2.1.1.2.17 cfgFwNatOutIndex

Entry index of Table.

Status	current
Range	0 - 255
Oid	1.3.6.1.4.1.41524.1.2.1.1.2.2.1.1

2.1.1.2.18 cfgFwNatOutDestinationPortEnd

AP STA

Destination end port to match. When forwarding multiple port, this value is the end of the range. Set to -1 if no range is forwarded. Can only be used with TCP, UCP or TCP/UDP. HINT: Usually you want this disabled.

Status	current
Range	-1 - 65535
Oid	1.3.6.1.4.1.41524.1.2.1.1.2.2.1.10

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2.1.1.2.19 cfgFwNatOutSourceRewriteAddress



Redirect traffic to this redirection destination address. Set the address with which outbound traffic shall be rewritten. In case you are using DHCP leave this on 0.0.0.0. HINT: If you are not rewriting the source to a specific aliases you can leave this on 0.0.0.0 as well to automatically rewrite to the configured main address of the interface.

Status	current
Туре	IpAddress
Oid	1.3.6.1.4.1.41524.1.2.1.1.2.2.1.11

2.1.1.2.20 cfgFwNatOutSourceRewritePort

AP STA

Redirect traffic to this destionation port.Can only be used with TCP, UCP or TCP/UDP.Set to -1 to disable source port rewrite.HINT: Usually you want this disabled.

Status	current
Range	-1 - 65535
Oid	1.3.6.1.4.1.41524.1.2.1.1.2.2.1.12

2.1.1.2.21 cfgFwNatOutEnabled

AP STA

Disable or enable the rule.

Enumeration	disabled (0) enabled (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.2.1.1.2.2.1.2

2.1.1.2.22 cfgFwNatOutInterface



Name of the network interface on which the rule applies. Matches traffic leaving on this interface. Needs to be set to an interface name if you are using DHCP. Set to -1 if you don't know on which interfacetraffic will be leaving. Match the traffic with cfgFwNatOutDestinationAddress instead. You can use! to invert the sense of the rule. E.g. !wlan0

Status	current
Туре	DisplayString
Range	1 - 255
Oid	1.3.6.1.4.1.41524.1.2.1.1.2.2.1.3

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2.1.1.2.23 cfgFwNatOutProtocol

AP STA

Choose which IP protocol the rule matches. Allowed protocols are:any(0): Any ip protocol.udp(1): Only UDP protocol.tcp(2): Only TCP protocol.udptcp(3): UDP and TCP protocol.

Enumeration	tcp (2) any (0) udptcp (3) udp (1)
Status	current
Oid	1.3.6.1.4.1.41524.1.2.1.1.2.2.1.4

2.1.1.2.24 cfgFwNatOutSourceAddress

AP STA

Source address to match. This can be a specific ip address or a range in CIDR notation. Set to 0.0.0.0/0 to match all inbound traffic. Set to 172.17.29.7/32 to match the specific IP 172.17.29.7 You can use! to invert the sense of the rule: E.g. !192.168.0.0/24HINT: Usually you want 0.0.0.0/0.

Status	current
Туре	DisplayString
Range	9 - 19
Oid	1.3.6.1.4.1.41524.1.2.1.1.2.2.1.5

2.1.1.2.25 cfgFwNatOutSourcePortStart

(AP) (STA)

Source start port to match. Specify the port or start of a port range from which a connection originates. Can only be used with TCP, UCP or TCP/UDP. Leave this on -1 to disable. You can use! to invert the sense of the rule: E.g. !80When used in a range, the inversion applies to the range. HINT: Usually you want this disabled.

Status	current
Туре	DisplayString
Range	1 - 6
Oid	1.3.6.1.4.1.41524.1.2.1.1.2.2.1.6

2.1.1.2.26 cfgFwNatOutSourcePortEnd

AP STA

Destination end port to match. When matching multiple port, this value is the end of the range. Set to -1 if no range is to be matched. Can only be used with TCP, UCP or TCP/UDP. HINT: Usually you want this disabled.

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Status	current
Range	-1 - 65535
Oid	1.3.6.1.4.1.41524.1.2.1.1.2.2.1.7

2.1.1.2.27 cfgFwNatOutDestinationAddress

AP STA

Destination address to match. This can be a specific ip address or a range in CIDR notation. Set to 0.0.0.0/0 to match all outbound traffic on the interfacespecified in cfgFwNatOutInterface. You can use! to invert the sense of the rule: E.g. !192.168.0.0/24

Status	current
Туре	DisplayString
Range	9 - 19
Oid	1.3.6.1.4.1.41524.1.2.1.1.2.2.1.8

2.1.1.2.28 cfgFwNatOutDestinationPortStart

AP STA

Destionation start port to match. Specify the port or start of a port range for the destination. Can only be used with TCP, UCP or TCP/UDP. You can use! to invert the sense of the rule: E.g. !80When used in a range, the inversion applies to the range. HINT: Usually you want this disabled.

Status	current
Туре	DisplayString
Range	1 - 6
Oid	1.3.6.1.4.1.41524.1.2.1.1.2.2.1.9

- 2.1.2 rpc
- 2.1.3 settings
- 2.1.4 hardware
- 2.1.5 software



Message Codes

Variable text, inserted at the time the message is created, is displayed using the place holder '<val>'.

- [INFO 0] <val>
 Manual or WebGUI Log Reset.
- [ERROR 100] SYS_MON: <val> Voltage is out of range (to <val>)

 This trap is sent when supply voltage or one of the internal voltages are outside specified limits which are hardware dependent.
- [ERROR 101] SYS_MON: <val> Temperature is out of range (to <val>)

This trap is sent when internally measured temperature is outside specified limits which are hardware dependent.

- [CRITICAL 105] SYS_MON: Failure by reading value <val>. This value isn't monitored anymore

 This trap is sent when internally a value couldn't read.
- [NOTICE 200] Device has restarted because of <val>
 This message is sent at boot-up process. RESET CAUSE can be either coldstart or watchdog.
- [NOTICE 201] System startup
 This message is sent when the system starts up.
- [NOTICE 202] Firmware update started This message is sent when a firmware update is initiated.
- [NOTICE 203] System reboot

 This message is sent when a system reboot is issued.
- [INFO 204] Reserved
- [NOTICE 205] Factory Reset confirmed, System configuration



changed

This message is sent whenever the system configuration is changed.

- [NOTICE 206] Reserved
- [WARNING 207] Invalid upgrade image for this platform.
- [ERROR 208] Corrupt firmware package!
- [WARNING 300] NTP: time synchronization failed!

 This message is generated when ntp client is configured in unicast mode and it failed to connect to NTP server.
- [NOTICE 310] Reserved
- [ERROR 320] BIST: Daemon '<val>' isn't running, recover it
 This message is generated when process with name process is not running and has to be
 restarted by the bist
- [ERROR 321] BIST: Daemon watchdog is not running force restart

 This message is generated when watchdog process is not running. System repeats afterward.
 - This message is generated when watchdog process is not running. System reboots afterwards.
- [INFO 400] WLAN: Station is associated this massage is used to trigger led status
- [INFO 401] WLAN: Station is disassociated this massage is used to trigger led status
- [ERROR 402] Reserved



- [ERROR 403] WLAN: Authentication failure • [ERROR 404] WLAN: Association failure • [NOTICE 405] Reserved • [ERROR 406] WLAN: Max number of station exceeded • [ERROR 407] Reserved • [NOTICE 410] <val>: Handoff:|<val>|<val>|<val>|<val>|<val>| • [NOTICE 430] TS|<val>|<val>|RSSI_BCN|<val> • [NOTICE 432] Reserved • [CRITICAL 500] CONFIG: Unable to connect to IPC system (ubus)! • [CRITICAL 501] CONFIG: Unable to read from UCI! • [ERROR 510] CONFIG: Invalid configuration, reverting to
 - [ERROR 511] CONFIG: Unable to save new configuration!

previous configuration!



- [CRITICAL 512] CONFIG: Unable to apply previous configuration!
- [WARNING 513] CONFIG: Unable to set through snmp: <val> Warning for import config through snmpcfgfile
- [ERROR 580] CONFIG FILE: Transfer failed!
- [WARNING 581] CONFIG FILE: <val>
- [ERROR 582] CONFIG FILE: Unable to read or parse!
- [ERROR 585] CONFIG Certificate: https certificate import/export failed!
- [ERROR 700] NET: Configuration failed! This message is sent if the network couldn't be set up. Possible reason are wrong proto, missing or invalide netmask or ipaddress.
- [WARNING 701] NET: Configuration failed, but try to continue anyway.

This message is sent if the network couldn't be set up. Possible reason are the interface we try to configure does not exist.

- [ERROR 710] NET: Unable to set the default gateway!

 This message is sent if the default gateway couldn't be set properly. This happens if the destination can not be reached, or no matching subnet exist.
- [WARNING 711] NET: Unable to set the default gateway!

 This message is sent if the default gateway couldn't be set properly. This can happen if the default gateway is already set by DHCP.



- [ERROR 712] NET: Unable to set a static route! This message is sent when an static route couldn't be set.
- [WARNING 713] NET: Unable to set a static route! This message is sent when an static route couldn't be set.
- [ERROR 720] NET: Wireless configuration failed!

 This message is sent when the configuration manager is not able to set up a wireless interface.
- [ERROR 730] NET: Creation of alias failed!

 This message is sent if an alias couldn't be set up. Possible reason are missing or invalide netmask or ipaddress.
- [WARNING 731] NET: Parent interface missing for alias. This message is sent if the parent interface for an alias doesn't exist.
- [ERROR 740] NET: Creation of VLAN failed! This message is sent if the creation of a vlan failed.
- [WARNING 741] NET: Parent interface missing for VLAN.

 This message is sent if the creation of a vlan failed because the parent doesn't exist.
- [WARNING 750] NET: Adding a QoS rule failed.
- [INFO 800] DFS: Starting CAC on <val> MHz. This message is sent when a CAC or Off-Channel CAC is started.
- [INFO 801] DFS: Radar found on <val> MHz.

 This message is sent when a radar pattern during In-Service Monitoring, CAC or Off-Channel CAC is detected.
- [INFO 802] DFS: Channel on <val> MHz becomes Available.

 This message is sent when a channel on the given frequency becomes Available after a CAC or Off-Channel CAC.



- [INFO 803] DFS: Channel on <val> MHz becomes Usable again.

 This message is sent when a channel on the given frequency becomes Usable after the NOP time.
- [INFO 804] DFS: Starting In-Service Monitoring on <val> MHz. This message is sent when the In-Service Monitoring for the Operating Channel on the given frequency.
- [INFO 805] DFS: All initial CACs done.

 This message is sent when all DFS frequencies have passed the inital CAC.