



IbexOS Release Notes

Release 6.12.0-0

Westermo Network Technologies AB

April 1, 2026

Contents

1	General Information	3
2	Release Highlights	4
2.1	6.12.0-0	4
3	Limitations	4
4	Configuration Parameter Changes	4
5	Supported Cellular Firmware	7
5.1	Ibex-RT-330, Ibex-RT-630	7
5.2	Ibex-RT-330-5G, Ibex-RT-630-5G	7
6	Changed Configuration Parameter Descriptions	8
6.1	MIB Reference: WESTERMO-SW6-MIB	8
6.2	MIB Reference: WESTERMO-SW6-PWN-MIB	21
6.3	MIB Reference: WESTERMO-SW6-BLUETOOTH-MIB	28



1 General Information

Company

Westermo Network Technologies AB

Contact Support

www.westermo.com

Release Number

6.12.0-0

Software Build Number

00c9b6e28562394207b874f69432604b09792267

Date of this build

April 1, 2026

2 Release Highlights

2.1 6.12.0-0

- Product: Add support for 802.11be products (Ibex-1520, Ibex-3520)
- Kernel: Upgrade to kernel 6.6 (802.11n and Cellular products)
- Wireless: DHCP Option 82 implemented for bridged wireless interfaces
- Wireless: Add multicast-to-unicast conversion (802.11n products only)
- Wireless: Add Passpoint and OpenRoaming support (802.11ax and 802.11be products)
- Network: Add support for protocol, source and destination port matching in policy routing
- Network: Add support for DHCP matching on MAC address and other DHCP options
- 802.1X: Add RadSec proxy for secure RADIUS communication
- VPN: Add support for tls-crypt to OpenVPN
- Network: TECHPREVIEW support for LACP

3 Limitations

- 802.11ac products no longer supported (Ibex-RT-610)
- ICL application is not yet supported on 802.11be products (Ibex-1520, Ibex-3520)
- When the device is reconfigured to Mesh with SAE as encryption, the device has to be rebooted after applying the configuration (802.11n products only)

4 Configuration Parameter Changes

The following configuration items have been added, changed, removed, deprecated or obsoleted:

- `cfgNetWlanDhcpOption82` (added)

- `cfgWlanIfaceMulticastToUnicast` (added)
- `cfgWlanPasspointEnabled` (added)
- `cfgWlanPasspointSsid` (added)
- `cfgWlanPasspointOperator` (added)
- `cfgWlanPasspointVenueName` (added)
- `cfgWlanPasspointVenueGroup` (added)
- `cfgWlanPasspointVenueType` (added)
- `cfgWlanPasspointHessid` (added)
- `cfgWlanPasspointNetworkType` (added)
- `cfgWlanPasspointNetworkAuthType` (added)
- `cfgWlanPasspointDomain` (added)
- `cfgWlanPasspointRoamingConsortium` (added)
- `cfgWlanPasspointCellNet` (added)
- `cfgWlanPasspointNaiRealm` (added)
- `cfgWlanPasspointOperatorNamespace` (added)
- `cfgRouteRuleIcmpProto` (added)
- `cfgRouteRuleSourcePort` (added)
- `cfgRouteRuleDestinationPort` (added)
- `cfgDhcpScopeTag` (added)
- `cfgDhcpTagType` (added)
- `cfgDhcpTagMatch` (added)
- `cfgDhcpTagTag` (added)
- `cfgRadsecProxyInstEnabled` (added)
- `cfgRadsecProxyInstInstanceId` (added)

- `cfgRadsecProxyInstLocalAddress` (added)
- `cfgRadsecProxyInstLocalAuthSrvPort` (added)
- `cfgRadsecProxyInstLocalAcctSrvPort` (added)
- `cfgRadsecProxyInstLocalSecret` (added)
- `cfgRadsecProxyUpSrvEnabled` (added)
- `cfgRadsecProxyUpSrvInstancelId` (added)
- `cfgRadsecProxyUpSrvAuthAddress` (added)
- `cfgRadsecProxyUpSrvAcctAddress` (added)
- `cfgRadsecProxyUpSrvPort` (added)
- `cfgRadsecProxyUpSrvSecret` (added)
- `cfgRadsecProxyUpSrvCaCertId` (added)
- `cfgRadsecProxyUpSrvClientCertId` (added)
- `cfgRadsecProxyUpSrvClientKeyId` (added)
- `cfgRadsecProxyUpSrvRealms` (added)
- `cfgBtEnabled` (added)
- `cfgBtApplication` (added)
- `rpcPartGenerateHashes` (added)
- `hwCellFwVersionPreferredVersion` (added)
- `swOsPartDevice` (added)
- `swOsPartLabel` (added)
- `swOsPartHash` (added)
- `swBtScnResult` (added)
- `cfgNetFcFlowMode` (changed)
- `cfgWlanDevModulation` (changed)

- `cfgWlanDevBandwidth` (changed)
- `cfgVpnOpenvpnKeyType` (changed)
- `cfgWlanBsteerEnabled` (deprecated)
- `cfgWlanBsteerMatchingWlan` (deprecated)

5 Supported Cellular Firmware

This release supports and has been tested with the following cellular firmwares:

5.1 Ibex-RT-330, Ibex-RT-630

- EM12GPAR01A20M4G_01.003.01.003
- EM12GPAR01A21M4G_01.200.01.200
- EM12GPAR01A21M4G_01.204.01.204
- EM12GPAR01A21M4G_01.300.01.300

5.2 Ibex-RT-330-5G, Ibex-RT-630-5G

- RM520NGLAAR03A01M4G_01.202.01.202
- RM520NGLAAR03A03M4G_01.201.01.201
- RM520NGLAAR03A04M4G_01.204.01.204
- RM520NGLAAR03A04M4G_A0.301.A0.301

Other cellular firmware versions are not supported.

6 Changed Configuration Parameter Descriptions

6.1 MIB Reference: WESTERMO-SW6-MIB

6.1.1 cfgVpnOpenvpnKeyType

Key Type

- **asymmetric(0)**: Use an asymmetric encryption with certificate, private and public keys (TLS).
- **symmetric(1)**: Use encryption with a static key.
- **combinedAuth(2)**: Use asymmetric encryption and sign the control channel with a static key (tls-auth).
- **combinedCrypt(3)**: Use asymmetric encryption and encrypt the control channel with a static key (tls-crypt).

Note: The key material for the asymmetric encryption is managed by the Certificate Store.

<i>Enumeration</i>	asymmetric (0), symmetric (1), combinedAuth (2), combinedCrypt (3)
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.1003.1.1.1.18

6.1.2 cfgRadsecProxyInstEnabled

Disable or Enable Radsec Proxy Instance

Enable or disable a RadSec Proxy instance. The instance is only enabled if it has a valid reference to an enabled RadSec Proxy upstream server.

Applies to AP

<i>Enumeration</i>	disabled (0), enabled (1)
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.1008.1.1.1.2

6.1.3 cfgRadsecProxyInstInstanceld

RadsecProxy Instance ID

Reference to the upstream servers ID's in the `cfgRadsecProxyUpstreamServerTable` with the same value in `cfgRadsecProxyUpSrvInstanceId`.

Applies to AP

<i>Range</i>	0 - 255
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.1008.1.1.1.3

6.1.4 cfgRadsecProxyInstLocalAddress

RadsecProxy Local Address

The local listen IP address of the RadSec Proxy. This could either be localhost 127.0.0.1/32 when a using enterprise encryption on this AP or a bind address where the RadSec Proxy receives authentication or accounting requests from other AP's in the same network.

For example 192.168.3.22/24 in CIDR notation to allow incoming requests from any AP in the same /24 subnet.

Applies to AP

<i>Type</i>	DisplayString
<i>Range</i>	7 - 18
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.1008.1.1.1.4

6.1.5 cfgRadsecProxyInstLocalAuthSrvPort

RadsecProxy Local Authentication Server Port

The local listening port for authentication requests. Set this entry to -1 to disable it.

Applies to AP

<i>Range</i>	-1 - 65535
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.1008.1.1.1.5

6.1.6 cfgRadsecProxyInstLocalAcctSrvPort

RadsecProxy Local Accounting Server Port

The local listening port for accounting requests. Set this entry to -1 to disable it.

Applies to AP

<i>Range</i>	-1 - 65535
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.1008.1.1.1.6

6.1.7 cfgRadsecProxyInstLocalSecret

RadsecProxy Local Server Secret

The password for incoming authentication or accounting requests. The same value is used for both protocols.

Applies to AP

<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.1008.1.1.1.7

6.1.8 cfgRadsecProxyUpSrvClientKeyId

RadSec Upstream Server Client Key ID

Reference to the private Client Key which should be used.

Applies to AP

<i>Type</i>	Integer32
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.1008.2.1.1.10

6.1.9 cfgRadsecProxyUpSrvRealms

RadSec Upstream Server Realm Identification

A received Access-Request is checked against the defined realms. This is done by looking at the Username attribute in the request.

Example: username@westermo.com

The proxy will match against the blocks in the order they are specified, using the first match if any. If no realm matches, the proxy will simply ignore the request.

To accept all request, define * as realm. Multiple realms can be defined in a comma and/or space separated list. If the realm name starts with a / the name is treated as a regular expression. It may optionally end with a '/.

Examples:

- **any:** *
- **single domain:** westermo.com
- **regexp:** /@westermo.com\$/

Applies to AP

<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.1008.2.1.1.11

6.1.10 cfgRadsecProxyUpSrvEnabled

Disable or Enable RadSec Proxy Upstream Server

Enable or disable a RadSec Proxy upstream server. The upstream server is only enabled if it has a valid reference to an enabled RadSec Proxy instance.

Applies to AP

<i>Enumeration</i>	disabled (0), enabled (1)
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.1008.2.1.1.2

6.1.11 cfgRadsecProxyUpSrvInstanceId

RadSec Proxy Upstream Server Instance ID

Reference to the instance ID's in the `cfgRadsecProxyInstanceTable` with the same value in `cfgRadsecProxyInstInstanceId`.

Applies to AP

<i>Range</i>	0 - 255
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.1008.2.1.1.3

6.1.12 cfgRadsecProxyUpSrvAuthAddress

RadSec Upstream Server Authentication Address

IP address or FQDN of the RadSec server for forwarding authentication requests.

Set the value to 0.0.0.0 to disable the authentication server and to use it only for accounting.

Applies to AP

<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.1008.2.1.1.4

6.1.13 cfgRadsecProxyUpSrvAcctAddress

RadSec Upstream Server Accounting Address

IP address or FQDN of the RadSec server for forwarding accounting requests.

Set the value to 0.0.0.0 to disable the accounting server and to use it only for authentication.

Applies to AP

<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.1008.2.1.1.5

6.1.14 cfgRadsecProxyUpSrvPort

RadSec Upstream Server Port

The default RadSec server authentication port is 2083.

Applies to AP

<i>Range</i>	1 - 65535
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.1008.2.1.1.6

6.1.15 cfgRadsecProxyUpSrvSecret

RadSec Upstream Server Secret

Password to connect to the specified RadSec server. The shared secret is used to allow the authenticator to communicate with the server, it is not used to authenticate clients.

Applies to AP

<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.1008.2.1.1.7

6.1.16 cfgRadsecProxyUpSrvCaCertId

RadSec Upstream Server Certificate Authority (CA) IDs

Reference to the CA certificate. If more CA needs to be referenced, they must be combined in the same file.

Applies to AP

<i>Type</i>	Integer32
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.1008.2.1.1.8

6.1.17 cfgRadsecProxyUpSrvClientCertId

RadSec Upstream Server Client Certificate ID

Reference to the client certificate

Applies to AP

<i>Type</i>	Integer32
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.1008.2.1.1.9

6.1.18 cfgDhcpScopeTag

DHCP Scope Tag

The tag for which this scope is active. Use the `cfgDhcpTagTable` to specify a tag that is matched here. Allowed are alpha-numeric characters.

Set to none to disable this field.

<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.13.3.1.20

6.1.19 cfgDhcpTagType

DHCP Tag Type

Selects what `cfgDhcpTagMatch` is matching on:

disabled(0): Ignore this entry **mac(1)**: The MAC-address of the requesting client **clientid(2)**: The client id of the requesting client **hostname(3)**: The hostname of the requesting client **circuitid(4)**: The circuit-id (opt 82.1) of the request **remoteid(5)**: The remote-id (opt 82.2) of the request

<i>Enumeration</i>	disabled (0), mac (1), clientid (2), hostname (3), circuitid (4), remoteid (5)
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.13.7.1.2

6.1.20 cfgDhcpTagMatch

DHCP Tag Match

Depending on the type of `cfgDhcpTagType` this is another format.

- **mac(1)**: The mac address in hex-colon, e.g 00:14:5a:01:23:45.
- **clientid(2)**: The clientid in hex-colon or as string. e.g 98:76:54 or test.
- **hostname(3)**: The hostname as a string. Validity of a hostname applies.
- **circuitid(4)** and **remoteid(5)**: The circuit-id or remote-id is normally given as colon-separated hex, but is also allowed to be a simple string. e.g: 30:30:30:37:37:63:33:30:35:66:62:35:3a:61:74: which is the equivalent of 00077c305fb5:ats17-mma.

<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.13.7.1.3

6.1.21 cfgDhcpTagTag

DHCP Tag Match

The tag that is assigned to a request when `cfgDhcpTagMatch` matches.

Allowed are alpha-numeric characters.

This tag is used in a scope with `cfgDhcpScopeTag`.

<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.13.7.1.4

6.1.22 cfgNetFcFlowMode

TECHPREVIEW: Flow Controller Mode

- **normal(0)**: Behaves like a normal bridge
- **fullduplex(1)**: Transmits frames on the bridge-master, and receives frames on all other members of the bridge. The bridge-master is the first interface which is added to a bride. The order in which interfaces are added is ascending in interface number: eth, wlan, ovpn, fc.
- **lacpactive(2)**: LACP active mode with fast time

<i>Enumeration</i>	normal (0), fullduplex (1), lacpactive (2)
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.2.14.1.17

6.1.23 cfgNetWlanDhcpOption82

Wireless Interface DHCP Option 82

When the wireless interface is bridged, enabling this option causes all DHCP request frames that pass through the interface to be extended with the DHCP option 82.

The circuit-id (suboption 1) defines the identity of the AP and the circuit where the request was received. This is in the form: <hostname>:<iface>

Example:

- rmodem:wlan0

The remote-id (suboption 2) defines the remote host. It is the MAC of the AP (static 6 bytes) followed by the SSID. This is in the form: <mac>:<ssid>

Example:

- 00145a012345:ExampleSsid

<i>Enumeration</i>	disabled (0), enabled (1)
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.2.2.1.17

6.1.24 cfgWlanDevModulation

Physical Wireless Device Modulation Mode

For an AP the following modulation modes are configurable:

- **g(2)**: This modulation mode uses OFDM data rates up to 54 MBit/s in the frequency band between 2.4 and 2.4835 GHz. It supports the 802.11g standard.
- **bg(3)**: This modulation mode uses data rates up to 54 MBit/s in the frequency band between 2.4 and 2.4835 GHz. It supports the 802.11bg standard. The modulation is either DSSS for the slower rates or OFDM for the faster ones.
- **a(4)**: Mode supports data rates up to 54 MBit/s in the 5GHz frequency band and only OFDM modulation.
- **ng(10)**: For 2.4GHz
- **na(12)**: For 5GHz.
- **ac(28)**: 11ac mode for 5GHz.
- **axg(58)**: 11ax mode for 2.4GHz.
- **axa(60)**: 11ax mode for 5GHz or 6GHz.
- **beg(122)**: 11be mode for 2.4GHz.
- **bea(124)**: 11be mode for 5GHz or 6GHz.

Note: Some products do not support all modulations. Please check the data-sheet of your product.

Note:: The STA scans both frequency bands (2.4 GHz and 5GHz) regardless of the modulation. The STA will adapt to the modulation of the Access Point during connection.

Note: For a STA the modulation can be used to explicitly disable n-rates even though n-rates would be supported by the Access Point. The n-rates data rates support up to 300 MBit/s in the 2.4GHz and 5GHz frequency band and only OFDM modulation.

Setting modulation to **10(ng)** or **12(na)** will enable n-rates if n-rates are supported by the Access Point, while setting modulation to **g(2)**, **bg(3)** or **a(4)** will disable n-rates. This feature applies to 802.11n products only.

Applies to AP and STA.

<i>Enumeration</i>	g (2), bg (3), a (4), ng (10), na (12), ac (28), axg (58), axa (60), beg (122), bea (124)
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.3.1.1.4

6.1.25 cfgWlanDevBandwidth

Wireless Bandwidth Mode specifies the Bandwidth of the Channel.

- **bw20(0)**: for 20MHz wide channel.
- **bw40Plus(1)**: for 40MHz wide channel with the side channel on the top.
- **bw40Minus(2)**: for 40MHz wide channel with the side channel on the bottom.
- **bwQuarter(3)**: for 5MHz wide channel (quarter rate).
- **bwHalf(4)**: for 10MHz wide channel (half rate).
- **bw80(5)**: 80MHz wide channel (only in 11ac/ax mode)
- **bw160(6)**: 160MHz wide channel (only in 11ac/ax mode)
- **bw8080(7)**: 80+80MHz wide channel (only in 11ac/ax mode)
- **bwAuto(8)**: automatic channel width (only in 11ac/ax mode)
- **bw320(9)**: 320MHz wide channel (only in 11be mode)

Note: **bw40Plus(1)** and **bw40Minus(2)** may not be usable on all channels.

Examples:

The following table shows examples of which channels may be used. The full list can be found in IEEE 802.11n Annex J. Depending on the country, not all frequencies may be available.

Band	bw40Plus(1)	bw40Minus(2)
2.4 GHz	2412 to 2452	2432 to 2472
5 GHz	5180, 5220, 5260, etc.	5200, 5240, 5280, etc.

Note: Some products do not support all bandwidths. Please check the data-sheet of your product.

Applies to AP and STA.

<i>Enumeration</i>	bw20 (0), bw40Plus (1), bw40Minus (2), bwQuarter (3), bwHalf (4), bw80 (5), bw160 (6), bw8080 (7), bwAuto (8), bw320 (9)
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.3.1.1.5

6.1.26 cfgWlanifaceMulticastToUnicast

Multicast to Unicast Conversion

If set to **enabled(1)**, the AP is requested to perform multicast to unicast conversion for ARP, IPv4 and IPv6 frames. If enabled, such frames are to be sent to each station separately, with the DA replaced by their own MAC address rather than the group address.

Note: This may break certain expectations of the receiver, such as the ability to drop unicast IP packets received within multicast L2 frames, or the ability to not send ICMP destination unreachable messages for packets received in L2 multicast.

Applies to AP. 802.11n products only.

<i>Enumeration</i>	disabled (0), enabled (1)
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.3.2.1.134

6.1.27 cfgRouteRuleSourcePort

Source Port

When the frames are TCP or UDP, match on their source port.

May be a single number or a range of ports.

Examples:

- 53
- 443
- 1000-2000
- 8000-8001

Set to any to ignore this field.

<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.4.4.1.10

6.1.28 cfgRouteRuleDestinationPort

Destination Port

When the frames are TCP or UDP, match on their destination port.

May be a single number or a range of ports.

Examples:

- 53
- 443
- 1000-2000
- 8000-8001

Set to any to ignore this field.

<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.4.4.1.11

6.1.29 cfgRouteRuleIpProto

IP Protocol

Match frames based on the IP protocol in their IP header.

Common protocols are:

- **1:** ICMP
- **2:** IGMP
- **6:** TCP
- **17:** UDP
- **50:** ESP (IPsec)
- **51:** AH (IPsec)
- **112:** VRRP / CARP

Set to -1 to ignore this field.

<i>Range</i>	-1 - 254
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.4.4.1.9

6.1.30 rpcPartGenerateHashes

Generate Hashes of all Partitions

These hashes may be used to assert the integrity of the partitions.

Writing this value will:

- **generate(1)** Generate the partition hash information
- **delete(2)** Erase the partition hash information

<i>Enumeration</i>	nop (0), generate (1), delete (2)
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.3.103.1

6.1.31 hwCellFwVersionPreferredVersion

Cellular Module Firmware Version Preferred Version

<i>Type</i>	DisplayString
<i>Range</i>	0 - 255
<i>Access</i>	readonly
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.5.50.8

6.1.32 swOsPartDevice

The Device of the Partition

<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>Access</i>	readonly
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.6.4.101.1.1.2

6.1.33 swOsPartLabel

The Label of the Partition

<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>Access</i>	readonly
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.6.4.101.1.1.3

6.1.34 swOsPartHash

The MD5 Hash of the Partition

<i>Type</i>	DisplayString
<i>Range</i>	32 - 32
<i>Access</i>	readonly
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.6.4.101.1.1.4

6.2 MIB Reference: WESTERMO-SW6-PWN-MIB

6.2.1 cfgWlanBsteerEnabled

****OBSOLETE:** Enable Band Steering**

This parameter is obsolete and has been replaced by `cfgWlanCsteerEnabled`.

<i>Enumeration</i>	disabled (0), enabled (1)
<i>Access</i>	readonly
<i>OID</i>	1.3.6.1.4.1.16177.1.400.2.9.1.1.1.1

6.2.2 cfgWlanBsteerMatchingWlan

****OBSOLETE:** WLAN Interface Indices for Band Steering**

This parameter is obsolete and has been replaced by `cfgWlanCsteerMatchingWlan`.

<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>Access</i>	noaccess
<i>OID</i>	1.3.6.1.4.1.16177.1.400.2.9.1.1.1.3

6.2.3 cfgWlanPasspointNetworkAuthType

Network Authentication Type

This parameter indicates what type of authentication is used in the network.

- 00: Acceptance of terms and conditions
- 01: On-line enrollment supported
- 02: http/https redirection
- 03: DNS redirection

Example for https redirection

- 02https://www.example.com/redirect/me/here/

Applies to AP. 802.11ax and 802.11be products only.

<i>Type</i>	DisplayString
<i>Range</i>	2 - 255
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.2.9.1.1.3.1.1.10

6.2.4 cfgWlanPasspointDomain

Domain Name

A comma separated list of domain names of the hotspot operator.

Applies to AP. 802.11ax and 802.11be products only.

<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.2.9.1.1.3.1.1.11

6.2.5 cfgWlanPasspointRoamingConsortium

Roaming Consortium

A comma and/or space separated list of supported roaming consortiums.

OpenRoaming ROICs

- 004096: Legacy
- 5A03BA0000: Open
- 5A03BA0001: Service Provider
- 5A03BA0010: Cloud Provider
- 5A03BA0011: Generic Enterprise
- 5A03BA0100: Government (City)
- 5A03BA0101: Automotive
- 5A03BA0110: Hospitality
- 5A03BA0111: Aviation Industry
- 5A03BA1000: Education or Research
- 5A03BA1001: Cable Industry
- 5A03BA1010: Manufacturer
- 5A03BA1011: Retail

Applies to AP. 802.11ax and 802.11be products only.

<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.2.9.1.1.3.1.1.12

6.2.6 cfgWlanPasspointCellNet

3GPP Cellular Network Information

A comma separated list of allowed cellular network providers. The coding format is: <MCC1 ,MNC1> [; <MCC2 ,MNC2>

Example

- 240,01
- 240,01;240,02;240,03
- 240,01;242,02

The parameter value -1 disables the field.

Applies to AP. 802.11ax and 802.11be products only.

<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.2.9.1.1.3.1.1.13

6.2.7 cfgWlanPasspointNaiRealm

NAI Realm Information

One or more realm can be advertised (currently limited to a single realm). These parameters provide information for stations using Interworking network selection to allow automatic connection to a network based on credentials.

The coding format is:

```
<encoding>,<NAI Realm(s)>[,<EAP Method 1>][,<EAP Method 2>][,...]
```

The parameter value -1 disables the field.

Multiple NAI realms can be defined as semicolon ; separated list.

Applies to AP. 802.11ax and 802.11be products only.

<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.2.9.1.1.3.1.1.14

6.2.8 cfgWlanPasspointOperatorNamespace

Operator Namespace Identifier

The operator namespace identifier adds the RADIUS attribute 126 in the following coding format:
<identifier><operator>

Identifier

- 0: TADIG
- 1: REALM
- 2: E212
- 3: ICC
- 4: WBAID

Example

- 0OperatorNameForTadig
- 4WESTERMO:SE

The parameter value -1 disables the field.

Applies to AP. 802.11ax and 802.11be products only.

<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.2.9.1.1.3.1.1.15

6.2.9 cfgWlanPasspointEnabled

Disable or Enable Passpoint

Applies to AP. 802.11ax and 802.11be products only.

<i>Enumeration</i>	disabled (0), enabled (1)
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.2.9.1.1.3.1.1.2

6.2.10 cfgWlanPasspointSsid

SSID of the Wireless Interface

The SSID must match with the SSID in `cfgWlanIfaceSsid` of the wireless interface.

Applies to AP. 802.11ax and 802.11be products only.

<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.2.9.1.1.3.1.1.3

6.2.11 cfgWlanPasspointOperator

Operator's Friendly Name

The operator name is normally not visible for the user but may assist during manual hotspot selection.

The field has a language prefix, by default it is set to `eng:` for English.

Multiple names can be defined as comma and/or space separated list.

Applies to AP. 802.11ax and 802.11be products only.

<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.2.9.1.1.3.1.1.4

6.2.12 cfgWlanPasspointVenueName

Venue Name

The venue name is the description of the location. It might be a building name or an address.

The field has a language prefix, by default it is set to `eng:` for English.

Multiple venues can be defined as comma and/or space separated list.

Applies to AP. 802.11ax and 802.11be products only.

<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.2.9.1.1.3.1.1.5

6.2.13 cfgWlanPasspointVenueGroup

Venue Group

Optionally field to describe the passpoint group. Please refer to the IEEE 802.11-2016 standard for more information.

- 0: Unspecified
- 1: Assembly
- 2: Business
- 3: Educational
- 4: Factory and Industrial
- 5: Institutional
- 6: Mercantile
- 7: Residential
- 8: Storage
- 9: Utility and Misc
- 10: Vehicular
- 11: Outdoor

Applies to AP. 802.11ax and 802.11be products only.

Type	Integer32
Access	readwrite
OID	1.3.6.1.4.1.16177.1.400.2.9.1.1.3.1.1.6

6.2.14 cfgWlanPasspointVenueType

Venue Type

Optionally field to describe the passpoint type. The type depends on the venue group value. Please refer to the IEEE 802.11-2016 standard for more information.

- 0: Unspecified
- x: Depends on Venue Group

Applies to AP. 802.11ax and 802.11be products only.

Type	Integer32
Access	readwrite
OID	1.3.6.1.4.1.16177.1.400.2.9.1.1.3.1.1.7

6.2.15 cfgWlanPasspointHessid

Homogeneous Extended Service Set Identifier (HESSID)

If two APs have different SSIDs, they are considered to be different wireless networks. If two APs have the same SSID, they are considered to be part of the same wireless network. But because SSIDs are not globally administered, it is possible that two APs with the same SSID are, in different wireless networks. The HESSID allows mobile devices to detect this condition. If two access points (APs) have the same SSID but are on different wireless networks, the two networks will have different HESSIDs.

Example

- 02:14:5a:11:22:33

The parameter value 00:00:00:00:00:00 disables this parameter.

Applies to AP. 802.11ax and 802.11be products only.

<i>Type</i>	DisplayString
<i>Range</i>	17 - 17
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.2.9.1.1.3.1.1.8

6.2.16 cfgWlanPasspointNetworkType

Access Network Type

The access network type is indicative of the privacy or cost of the given hotspot.

- 0: Private Network
- 1: Private Network with Guest Access
- 2: Chargeable Public Network
- 3: Free Public Network
- 4: Personal Device Network
- 5: Emergency Services Only Network
- 6: Test or Experimental Network
- 7: Wildcard Network

Applies to AP. 802.11ax and 802.11be products only.

<i>Enumeration</i>	private (0), privateguest (1), publicchargeable (2), public (3), personal (4), emergency (5), test (14), wildcard (15)
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.2.9.1.1.3.1.1.9

6.3 MIB Reference: WESTERMO-SW6-BLUETOOTH-MIB

6.3.1 cfgBtEnabled

Bluetooth Service Disabled or Enabled

If the Bluetooth service is **enabled(1)**

<i>Enumeration</i>	disabled (0), enabled (1)
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.2.11.1.1.1

6.3.2 cfgBtApplication

Bluetooth Application Selector

- **none(0)**: No application specified (default)
- **scanner(1)**: Scanner application

<i>Enumeration</i>	none (0), scanner (1)
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.2.11.1.1.2

6.3.3 swBtScnResult

Scanner Result

Placeholder for future scanner result string TBD

<i>Type</i>	DisplayString
<i>Range</i>	0 - 255
<i>Access</i>	readonly
<i>OID</i>	1.3.6.1.4.1.16177.1.400.2.11.2.1.1.1