



Software 6 Release Notes

Release 6.9.1-RC6

Westermo Network Technologies AB

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1 General Information

Company

Westermo Network Technologies AB

Contact Support

www.westermo.com

Release Number

6.9.1-RC6

Software Build Number

c034af7661d700f4686f8ac347e46609a21ab2d7

Date of this build

February 24, 2020

2 Release Highlights

2.1 RC0

- WLAN: Support for WPA3-PERSONAL Transition mode (SAE+PSK)
- WLAN: Support for WPA3 Enhanced Open (OWE)
- WLAN: Support for 802.11s mesh (802.11n products only)
- WLAN: Support for new country code AUS_NZL
- Mobility: Support for LLC Broadcast per VLAN
- System: Support for TECHPREVIEW
- Bootloader: Update to 2.8-RC0 - Support for Factory Reset on PoE

2.2 RC1

- AFM: Support for configurable visibility
- AFM: Bugfix for redundant AFM

2.3 RC2

- Bootloader: Update to 2.9-RC0 - Bugfix for 100mbit PoE
- Mobility: Bugfix for large scan frequency lists
- PWN: Reduce loglevel on PWN devices

2.4 RC3

- Mobility: Bugfix for AFM/AFC for large neighbour lists
- Web Interface: Show AFC Index and AFM Name on AFM/AFC Status page
- Web Interface: Increase advanced config data load request timeout

- PWN: Reduce loglevel on PWN devices even more

2.5 RC4

- Web Interface: Bugfix for index caching
- Mobility: Bugfix for multiple neighbour report processing
- Mobility: Add ability to autolear default MAC of I2nat

2.6 RC5

- Mobility: Improved bugfix for large scan frequency lists
- Web Interface: Improved bugfix for index caching
- PWN: Reduce loglevel on PWN devices even more

2.7 RC6

- Web Interface: Bugfix where the support file contained an empty configuration file
- Web Interface: Bugfix to not keep the old default self signed https certificate

3 Limitations

- Multi-SSID with DFS channels is not working (802.11n products only)

4 Configuration Parameter Changes

The following configuration items have been added/changed/removed:

- [cfgWlanIfaceLlcBroadcastVlan](#) (added)
- [cfgAfmVisibility](#) (added)

- [cfgWlanInterfaceMode](#) (changed)
- [cfgWlanInterfaceEncryption](#) (changed)
- [cfgNetWwanEnabled](#) (removed -> TECHPREVIEW)
- [cfgNetWwanPrimarySim](#) (removed)
- [cfgNetWwanSecondarySim](#) (removed)
- [cfgCellSimApn](#) (removed -> TECHPREVIEW)
- [cfgCellSimUsername](#) (removed -> TECHPREVIEW)
- [cfgCellSimPassword](#) (removed -> TECHPREVIEW)
- [cfgCellSimPinEnabled](#) (removed -> TECHPREVIEW)
- [cfgCellSimPin](#) (removed -> TECHPREVIEW)
- [cfgCellSimAuthType](#) (removed -> TECHPREVIEW)

5 Modules Modified

6 Changed Configuration Parameter Descriptions

6.1 MIB Reference: WESTERMO-SW6-MIB

6.1.1 [cfgCellSimApn](#)

TECHPREVIEW: APN (Access Point Name)

If needed by service provider, otherwise set to **auto**. If set to **auto** [cfgCellSimUsername](#), [cfgCellSimPassword](#) and [cfgCellSimAuthType](#) will be ignored.

Applies to LTE products only.

<i>Access</i>	readwrite
<i>Status</i>	current
<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.101.1.1.2

6.1.2 cfgCellSimUsername

TECHPREVIEW: Username

If needed by service provider and if `cfgCellSimAuthType` is not **none(0)**.

Applies to LTE products only.

<i>Access</i>	readwrite
<i>Status</i>	current
<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.101.1.1.3

6.1.3 cfgCellSimPassword

TECHPREVIEW: Password

If needed by service provider and if `cfgCellSimAuthType` is not **none(0)**.

Applies to LTE products only.

<i>Access</i>	readwrite
<i>Status</i>	current
<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.101.1.1.4

6.1.4 cfgCellSimPinEnabled

TECHPREVIEW: PIN authentication enabled

Set to **enabled(1)** if PIN authentication is required for this SIM.

Applies to LTE products only.

<i>Enumeration</i>	disabled (0), enabled (1)
<i>Access</i>	readwrite
<i>Status</i>	current
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.101.1.1.5

6.1.5 cfgCellSimPin

TECHPREVIEW: SIM PIN

Applies to LTE products only.

<i>Access</i>	readwrite
<i>Status</i>	current
<i>Type</i>	DisplayString
<i>Range</i>	4 - 4
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.101.1.1.6

6.1.6 cfgCellSimAuthType

TECHPREVIEW: Authentication type

If needed by service provider.

Applies to LTE products only.

<i>Enumeration</i>	none (0), pap (1), chap (2), both (3)
<i>Access</i>	readwrite
<i>Status</i>	current
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.101.1.1.7

6.1.7 cfgNetWwanEnabled

TECHPREVIEW: WWAN interface disabled or enabled

Applies to LTE products only.

<i>Enumeration</i>	disabled (0), enabled (1)
<i>Access</i>	readwrite
<i>Status</i>	current
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.2.11.1.3

6.1.8 `cfgWlanifaceLlcBroadcastVlan`

VLAN to send broadcast LLC frame after Handoff

A space and/or comma separated list of VLANs. This list defines to which VLANs the broadcast LLC frame is sent. The broadcast LLC frames is sent when a STA connects to an AP. This broadcast LLC frame is used to update the FDB of all switches on the backbone which are involved on the path on which data flows.

The value 0 specifies that the frame is sent untagged.

When this value is set to a value other than 0, make sure that the VLAN mode of the wireless interface `cfgNetWlanVlanMode` allows tagged frames. Also ensure that `cfgNetWlanTrunk` includes the specified VLAN(s).

Examples

- 69
- 12, 24, 69
- 0 12 24 69

Applies to AP.

<i>Access</i>	readwrite
<i>Status</i>	current
<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.3.2.1.120

6.1.9 `cfgWlanifaceMode`

Wireless Operation Mode

Allowed modes are:

- **ap(0)**: defines the interface as Access Point (AP)
- **sta(1)**: defines the interface as Station (STA)
- **monitor(2)**: defines the interface as Monitor (MON)
- **mesh(3)**: defines the interface as Mesh (MESH)

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

Applies to AP and STA.

<i>Enumeration</i>	ap (0), sta (1), monitor (2), mesh (3)
<i>Access</i>	readwrite
<i>Status</i>	current
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.3.2.1.4

6.1.10 cfgWlanifaceEncryption

Wireless Encryption Mode

Supported encryption modes:

- **open(0)** means open network without encryption.
- **psk(3)** means WPA-PSK security standard (IEEE 802.11i, AES-CCMP)
- **eap(6)** WPA-EAP (EAP-TLS/TTLS/PEAP)
- **sae(7)** enables SAE (WPA3-Personal)
- **owe(8)** Opportunistic Wireless Encryption (WPA3 Enhanced Open)
- **saepsk(9)** enables WPA3-Personal Transition mode (SAE + PSK)

WPA-EAP enables 802.1X support.

Applies to AP and STA.

<i>Enumeration</i>	open (0), psk (3), eap (6), sae (7), owe (8), saepsk (9)
<i>Access</i>	readwrite
<i>Status</i>	current
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.3.2.1.6

6.2 MIB Reference: WESTERMO-SW6-NWM-MIB

6.2.1 cfgAfmVisibility

Visibility of segments

The visibility must be greater or equal as the absolute segment offset configured in any `cfgAfcNeighbourOffset` within the line.

`cfgAfmVisibility >= abs(cfgAfcNeighbourOffset)`

Applies to AP. 802.11n products only.

<i>Access</i>	readwrite
<i>Status</i>	current
<i>Range</i>	1 - 1024
<i>OID</i>	1.3.6.1.4.1.16177.1.400.2.3.1.7.8
