



Software 6 Release Notes

Release 6.11.2-0

Westermo Network Technologies AB

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1 General Information

Company

Westermo Network Technologies AB

Contact Support

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Release Number

6.11.2-0

Software Build Number

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Date of this build

February 26, 2024

2 Release Highlights

2.1 6.11.2-0

- Product: Add support for 802.11ax products (Ibex-1510, Ibex-3510)
- Discovery: Add support for SSDP (Simple Service Discovery Protocol)
- NTP: Add ability to run as NTP server with Chrony as backend

3 Limitations

- 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)
- Multi-SSID with DFS channels does not work (802.11n products only)
- It is recommended to operate the wave 1 card (radio1) with a maximum of 60 active clients. (802.11ac products only)

4 Configuration Parameter Changes

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

- `cfgSsdp` (added)
- `hwPowerSupply` (added)
- `cfgNtpClient` (added)
- `cfgNtpClientTable` (added)
- `cfgNtpClientTableEntry` (added)
- `cfgNtpClientIndex` (added)
- `cfgNtpClientEnabled` (added)
- `cfgNtpClientHost` (added)

- `cfgNtpClientNmeaEnabled` (added)
- `cfgNtpServer` (added)
- `cfgNtpServerEnabled` (added)
- `cfgNtpServerLocalReference` (added)
- `cfgSsdpEnabled` (added)
- `hwPsAssembled` (added)
- `hwPsType` (added)
- `hwPsSerial` (added)
- `hwPsInputRange` (added)
- `cfgWlanDevIndex` (changed)
- `cfgWlanInterfaceDevice` (changed)
- `cfgWlan802dot11rPmkR1KeyHolderIdentifier` (changed)
- `hwWlanDevIndex` (changed)
- `cfgNtpServer1` (deprecated)
- `cfgNtpServer2` (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

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

- RM520NGLAAR03A01M4G_01.202.01.202

Other cellular firmware versions are not supported.

6 Changed Configuration Parameter Descriptions

6.1 MIB Reference: WESTERMO-SW6-MIB

6.1.1 cfgNtpClient

<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.14.10
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6.1.2 cfgNtpClientTable

NTP Server Table

<i>Range</i>	0 - 31
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.14.10.1

6.1.3 cfgNtpClientTableEntry

NTP Server Table

<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.14.10.1.1
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6.1.4 cfgNtpClientIndex

Table Entry Index

<i>Range</i>	0 - 31
<i>Access</i>	noaccess
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.14.10.1.1.1

6.1.5 cfgNtpClientEnabled

NTP Server Disabled or Enabled

<i>Enumeration</i>	disabled (0), enabled (1)
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.14.10.1.1.2

6.1.6 cfgNtpClientHost

NTP Server Host

This entry is an IPv4 address or an FQDN (Fully Qualified Domain Name). An FQDN can only be resolved when a nameserver is configured in `cfgSysNameserverTable` or a nameserver is received via DHCP.

An FQDN may resolve to a pool of IPs. When an FQDN is configured, the client will attempt to re-resolve it multiple times until 4 different responses are received.

When set to 0.0.0.0 this entry will be ignored.

Examples:

- pool.ntp.org
- 192.168.1.2
- 0.0.0.0

<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.14.10.1.1.3

6.1.7 cfgNtpClientNmeaEnabled

Disable or Enable Synchronisation via NMEA from a GNSS Receiver

This feature requires `cfgGnssGpsdEnabled` to be set to `enabled(1)`.

Applies to cellular products only.

<i>Enumeration</i>	disabled (0), enabled (1)
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.14.10.2

6.1.8 cfgNtpServer1

****DEPRECATED:** NTP Server 1**

Please use `cfgNtpClientTable`.

<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.14.2

6.1.9 cfgNtpServer

<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.14.20
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6.1.10 cfgNtpServerEnabled

NTP Server Disabled or Enabled

When enabled an NTP server will start on UDP port 123.

<i>Enumeration</i>	disabled (0), enabled (1)
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.14.20.1

6.1.11 cfgNtpServerLocalReference

Local Reference

The local directive enables a local reference mode, which allows the NTP server to appear synchronised to real time (from the viewpoint of clients polling it), even when it was never synchronised or the last update of the clock happened a long time ago.

When enabled, will announce itself as stratum 10 while not synchronised to a better stratum server.

<i>Enumeration</i>	disabled (0), enabled (1)
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.14.20.2

6.1.12 cfgNtpServer2

****DEPRECATED:** NTP Server 2**

Please use cfgNtpClientTable.

<i>Type</i>	DisplayString
<i>Range</i>	1 - 255
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.14.3

6.1.13 cfgSsdp

<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.19
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6.1.14 cfgSsdpEnabled

Disable or Enable SSDP

<i>Enumeration</i>	disabled (0), enabled (1)
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.19.1

6.1.15 cfgWlanDevIndex

Table Entry Index

<i>Range</i>	0 - 2
<i>Access</i>	noaccess
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.3.1.1.1

6.1.16 cfgWlan802dot11rPmkR1KeyHolderIdentifier

PMK-R1 Key Holder identifier (dot11FTR0KeyHolderID)

6-octet identifier as a hex string. This may be the same as the local MAC address. Default magic number 000000000000 means use own mac address (bssid).

Format: 020102030405

Applies to AP. 802.11n products only.

<i>Type</i>	DisplayString
<i>Range</i>	12 - 12
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.3.13.1.7

6.1.17 cfgWlanInterfaceDevice

Maps the virtual wireless interface to the radio device

Applies to AP and STA.

<i>Enumeration</i>	radio0 (0), radio1 (1), radio2 (2)
<i>Access</i>	readwrite
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.1.3.2.1.3

6.1.18 hwWlanDevIndex

Table Entry Index

<i>Range</i>	0 - 2
<i>Access</i>	noaccess
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.5.3.1.1.1

6.1.19 hwPowerSupply

<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.5.52
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6.1.20 hwPsAssembled

Power Supply Assembled

<i>Enumeration</i>	inexistent (0), present (1)
<i>Access</i>	readonly
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.5.52.1

6.1.21 hwPsType

Power Supply Type

<i>Type</i>	DisplayString
<i>Range</i>	0 - 255
<i>Access</i>	readonly
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.5.52.2

6.1.22 hwPsSerial

Power Supply Serial Number

<i>Type</i>	DisplayString
<i>Range</i>	0 - 255
<i>Access</i>	readonly
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.5.52.3

6.1.23 hwPsInputRange

Power Supply Input Range

Reports the input range of the power supply:

- **POWER_INPUT_RANGE_WIDE:** 24V-110V DC

<i>Type</i>	DisplayString
<i>Range</i>	0 - 255
<i>Access</i>	readonly
<i>OID</i>	1.3.6.1.4.1.16177.1.400.1.5.52.4