

Prepared by Peter Adleff	Document Release Notes WeConfig 1.15.1	
Approved by Niklas Mörth	Date April 28, 2022	Document No 186018-geea18cd10a

Release Notes WeConfig 1.15.1

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1 About

WeConfig is a Windows based tool for configuration and maintenance of Westermo switches and routers.

For more information about Westermo and other product offerings see www.westermo.com.

1.1 Installation

The following prerequisites have to be fulfilled to successfully install and execute WeConfig:

- Microsoft .NET framework 4.8.0 installed
- WinPcap 4.1.3 installed or Npcap 1.6 or later

Microsoft .NET Framework 4.8.0 will be installed automatically, if the installer does not find it on the target system. The Microsoft .NET installer requires an internet connection. WinPCAP is installed by default unless WinPCAP or Npcap is already installed.

If neither WinPcap nor Npcap is installed, WeConfig will run in a reduced mode and not all functionality will be available.

WeConfig will only maintain compatibility with current and legacy versions of Microsoft Windows that not has reached its EOL (End Of Life) date.

Note! If you are using Npcap make sure that you have acquired a valid license. Licensing details are available at <https://npcap.com/>.

1.2 Usage

The following must be enabled on the managed switches/routers to get full functionality of WeConfig:

- IPConfig protocol
- HTTPS (Web) must be enabled
Administrator password must be setup in the WeConfig Settings dialogue.
- SNMP protocol. The read community has to be set.
The same read community has to be setup in WeConfig Project Settings dialogue.
- LLDP protocol
- SSH CLI access

The functionality dependent on the respective item above is described below.

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- Information gathering from the device, including topology information to be able to draw a device map is performed using SNMP.
- Basic Setup uses the IPConfig protocol to setup devices on devices running WeOS 4.32 and older. On such devices, the IPConfig protocol must be enabled on the devices to use Basic Setup.
- Backup, restore and firmware upgrade all use the HTTPS interface.
- Upgrade with HTTPS-upload method uses the HTTPS interface.
- To use SSH access an external SSH client must be set up in the Settings dialogue.
- All configuration of WeOS devices depends on the use of SSH; hence, SSH must be enabled on the target devices.

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2 News

WeConfig 1.15 introduces the following new functions:

2.1 Ibex Device Family Changes

2.1.1 Syslog Configuration

WeConfig now supports configuring syslog settings on the Ibex device family.

2.1.2 Background Security Scanning

WeConfig can now be configured to detect security issues for Ibex devices. Detections include:

- Weak WiFi PSK passwords
- The use of default SNMP communities
- The use of default passwords
- The use of TELNET
- Unused but enabled ports
- Enabled HTTP management interfaces

2.1.3 Radio Diagnostics

The following radio counters/values can be monitored under Diagnostics:

- Association success
- Association failure
- No. associated stations
- No. EAP auth sessions started
- No. EAP failed auth sessions
- Channel noise
- No. EAP sessions [FT]
- No. EAP sessions [FILS]
- No. EAP sessions [PKMSA]
- Channel active time

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- Channel busy time
- Channel transmit time
- Channel receive time

2.2 General

- The bundled WinPCAP installer has been repackaged with newer tools that do not contain known security issues.
- WeConfig now recognizes MRP ring open/close traps generated by Westermo devices (non-standard MIB).
- WeConfig now advises the user to reboot WeOS5 devices after a bootloader upgrade.
- GUI for setting up syslog is expanded as default to be more intuitive.

2.3 IPConfig on WeOS 4.33

Beginning with WeOS 4.33, the IPConfig protocol has become a read only protocol. It no longer allows any updates to devices. As such, WeConfig will now use CLI based communication to set the IP address of factory defaulted WeOS 4 devices. WeConfig will still use IPConfig to discover WeOS 4 devices.

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3 Limitations

- Upgrade using HTTPS-upload is supported from WeOS 4.13 and later.
To upgrade an older WeOS version, TFTP/FTP method must be used. A TFTP or a FTP server must be running on the WeConfig PC. The path to the TFTP/FTP root folder is setup in the Settings dialogue.
- Hostname and location is limited to 10 and 11 characters for factory reset/default WeOS 4 devices, due to limitations of the IPConfig protocol.
- Conflicting IP addresses can only be identified on WeOS units, and only for the IP address retrieved using the IPConfig protocol.
- WeConfig does not identify if an IP Address is statically configured or retrieved from a DHCP server. When setting an IP address using WeConfig, it is applied as a static address.
- Non WeOS units have limited support in WeConfig.
- Limited WeConfig SNMP trap support will be available when MS Windows SNMP Trap Host server is activated. For WeConfig to provide as much SNMP trap support as possible, please disable the MS Windows Trap Host server.
- If alarm monitoring for SNR high/low is to function properly, the device's firmware version must be 4.18.0 or higher due to a limitation in earlier firmwares.
- Some NICs (mostly low end USB NICs) discard LLDP frames. This means that WeConfig cannot learn where it is connected in the network.
- VLAN configuration is not supported on WeOS 4.13.4 or previous versions.
- WeConfig might not show SNMP traps sent from routers.
- Device connections might not be displayed correctly until 30 seconds after a link up/down event.
- If several Powerline groups are connected in serie, WeConfig can only detect the first Powerline group.
- Configuration of passwords and password to access MRD devices must only contain character (a-z, A-Z and 0-9), otherwise access to device may not work.
- Default gateway is not possible to display, or set, for WeOS5 devices in WeConfig.
- WeConfig is not able to configure Vipers with TTDP enabled on versions of WeOS prior to 5.14.

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4 Fixed Issues

Issue	Version	Category	Description
#0018681	1.15.1	GUI	Basic setup does not find and stop IP-conflicts if you use CIDR address