



Application Notes

Neutron Series c1.3.10

APRIL 2015

This document provides release information for Neutron Series Wireless Management products.

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Introduction

This document provides release information for Neutron Series Wireless Management products version **c1.3.10**, including enhanced and new features and known issues. This document assumes that you are already familiar with the Neutron product line and the features of earlier releases.

What's New?

Below are the new features included in this release:

- Support of Wireless Client Fingerprinting
- Support of Kick/Ban Wireless Clients
- Support of 802.11k/r Fast Roaming
- Support of Rogue AP Detection
- Support of Layer 2 Wireless Client Isolation
- Support of Wireless Coverage Display in Floorplan View
- Support of EnGenius IP Cameras to be Shown in Topology View
- Support of Controller Event Log
- Support of E-mail Notification
- Support of AP LED Indicator: On/Off Control(for Indoor Access Points Models)

Supported Platforms

EWS version **c1.3.10** supports the following EWS Switch models:

- EWS5912FP
- EWS7928P
- EWS7928FP
- EWS7952FP

EWS version **c1.3.10** supports the following EWS Access Point models:

- EWS210AP
- EWS310AP
- EWS320AP
- EWS360AP
- EWS660AP
- EWS860AP

Upgrade Information

In order to ensure compatibility between your devices, both the Neutron Switch and Neutron Access Point must both operate under **c1.3.10**.

The following EWS versions can be directly upgraded to version **c1.3.10**:

- c1.0.6
- c1.0.9

If your device is running an earlier version which is not listed above, you must upgrade to one of the versions above ahead of upgrading to this release.

Your devices can either be upgraded manually from the device GUI or by using the One-Click Update function on the EWS Switch.

Enhanced & New Features

This section contains enhancements and new features that have been applied to the Neutron Series in this release.

1. **Wireless Client Fingerprinting**

The Neutron Switch can now retrieve particular information on wireless clients, such as operating system and host name from the DHCP packets if available. All these information will be collected to show on the Neutron Switch user interface that allows administrators to easily identify wireless clients connected to the network.

2. **Kick/ban wireless clients**

By default, all wireless clients can connect to the network. In this release, the administrator can have the options to temporarily disassociate or permanently block certain wireless client from the network by the device's MAC address.

3. **Support of IEEE802.11k/r: Fast Roaming**

Fast roaming adopts the protocols defined in 802.11r to enable continuous connectivity for wireless devices in motion, with fast and secure roaming from one AP to another. Coupled with 802.11k, wireless devices are able to quickly identify nearby APs that are available for roaming; once the signal strength of the current AP weakens and your device needs to roam to a new AP, the device will directly know which AP is the best to connect with. Note that not every wireless client supports 802.11k and 802.11r. Also, both the SSID and security options must be the same for this fast roaming to work.

Fast Roaming is available when the following security methods are well configured:

- **RADIUS Authentication Required:**
WPA2-Enterprise, WPA-Mixed Enterprise
- **No RADIUS Authentication Required:**
WPA2-PSK, WPA-Mixed

4. Rogue AP Detection

Rogue Access Points refer to those unauthorized and often unmanaged APs attached to an existing wired network which could bring harm to the network or may be used to deliberately gain access to confidential company information. The Rogue AP Detection is featured to scan the 2.4GHz and the 5GHz frequency bands identifying rogue wireless Access Points not managed by the EWS Switch and displays the rogue AP's BSSID.

5. Layer 2 Wireless Client Isolation

Wireless Client Isolation prevents communication between WLAN clients and other local network resources. In this release, L2 Wireless Client Isolation function isolates wireless client traffic from all hosts and clients on the same subnet.

6. Support of Wireless Coverage Display in Floorplan View

In this release, Wireless Coverage Display can be toggled on in Floorplan View to indicate the coverage range of each Neutron Access Point that assists IT managers to easily and accurately plan and deploy wireless networks in any indoor environment.

7. Support of EnGenius IP Cameras to be shown in Topology View

Topology View is now enhanced to display EnGenius IP Cameras in the automatically generated network topology.

8. Support of Controller Event Log

The Controller Event Log is designed to monitor the operation of the Neutron Switch by recording the network event messages it generates in the ordinary course of operation. These events may provide vital information about system activities that helps IT technicians to identify and provide solutions to system problems accordingly.

9. Support of E-mail Notification

When an event alarm is detected, it will be recorded in the Neutron Switch events log. And the e-mail alert will be sent if configured.

10. Support of AP LED Indicator: On/Off control(for Indoor Access Point Models)

In some environments, the blinking LEDs are not welcomed. The LED indicators on the Indoor Access Points can now be configured to be on or off according to the application in a variety of surroundings from the Neutron Switch web interface.

Known Issues

This section lists the known issues in this release.

1. Fast roaming is not functioning in AP standalone mode after upgrading to this release.

Once an AP has been updated to c1.3.10, fast roaming will not function in AP standalone mode even it's enabled in the web interface. This issue does not affect APs that are managed by the Neutron Switch.

Workaround: After upgrading the Access Point, reset the AP to factory default before enabling fast roaming in AP standalone mode.

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