RELEASE NOTES

Ruckus IoT 1.2 (GA) Release Notes

Supporting IoT Controller Release 1.2

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Overview

This document provides release information about Ruckus IoT Suite 1.2, a versatile system for managing IoT devices.

The Ruckus IoT Suite is a collection of network hardware and software infrastructure components used to create an IoT access network that is comprised of four elements:

1. Ruckus IoT-ready Access Points (APs)— in addition to the wall-mount H510, the ceiling-mount R510, and the oudoor model T310, as of this release the following additional AP models are now IoT-ready: the ceiling-mount R610, R710, and R720, as well as the the outdoor models E510, and T610.
2. Ruckus IoT Modules—A NEW device that attaches to a Ruckus IoT-ready AP and supports standards such as Bluetooth Low Energy (BLE), Zigbee, LoRa and more. Our first IoT Module, the I100, will support BLE or Zigbee within the same enclosure.
3. Ruckus SmartZone Controller—existing WLAN controller, which provides basic networking information for both the WLAN and the IoT access network.
4. Ruckus IoT Controller—A NEW virtual controller, deployed in tandem with a Ruckus SmartZone Controller, that performs connectivity, device, and security management functions behind the scenes for non-WiFi devices. Our IoT Controller also facilitates cross-solution endpoint communication and provides APIs for northbound integration with IoT cloud services.

This document provides a list of the release components, their versions, a link to documentation, as well as caveats, limitations, and known issues in this release.

Features

Ruckus IoT-1.2 Suite provides the following update:

Zigbee 3.0 is now supported.

Implementation of Standard Zigbee clusters to support a wide variety of Zigbee Devices.

BLE beaconing functionality supports a wide variety of iBeacon and Eddystone tags.

Support in additional AP Models R610, R710, R720 E510, and T610.

Hardware and Software Compatibility

This release is compatible with the following controller and access point hardware and software.

Compatible Hardware:

- H510 Access Point (H510)
- R510 Access Point (R510)
- R610 Access Point (R610)
- R710 Access Point (R710)
- R720 Access Point (R720)
- T310 Access Point (T310)
- E510 Access Point (E510)
- T610 Access Point (T610)
- I100 IoT Module (I100)

Compatible Software:

- Virtual SmartZone High Scale (vSZ-H)
- Virtual SmartZone Essentials (vSZ-E)
- SmartZone 100 (sz-100)
- Ruckus IoT Controller (RIoT)

Release Information

This section lists the version of each component in this release.

vSCG (vSZ-H and vSZ-E), and SZ-100:

- WLAN Controller version: 3.6.1.2.12535
- Control plane software version in the WLAN Controller: 3.6.1.2.12501
- AP firmware version in the WLAN Controller: 3.6.1.2.12535

RIoT:

- Ruckus IoT Controller version: 1.2.0.0.22
- VMWare ESXi version: 5.5 and later
- VMWare VM Player version: 12 and later
- Oracle VirtualBox version: 5.1.20 and later
- Google Chrome version: 61 and later
- Mozilla Firefox version: 56 and later
- Safari: supported

Caveats, Limitations, and Known Issues

The following are the caveats, limitations and known issues.

Component: IoT feature in Access Point with IoT Module I100

- IOTC-1806 - vriot-ops: Changing the lat/long in the VSZ is not applied immediately unless we restart the IOT process.

  Workaround – restart the IoT service for the AP from IoT controller after changing the lat/long.
- IOTC-2024 - Iris device will not get on-boarded.
- IOTC-2110 - Downgrade of AP from 1.2 to 1.1/1.0 in ZigBee mode will cause dongle not to work.

  Workaround – Remove end-devices, switch the mode to BLE and downgrade, then switch the mode back and recommission devices.
- IOTC-2114 - ZigBee Bulb on power cycle or rejoin to network will come up with factory values.

  Workaround – Re-apply the settings from the UI.

Component: Ruckus IoT Controller

- IOTC-716 - source of truth for vlan conflicts with option 43.

Workaround – use IoT controller to configure VLAN ID and option 43 to configure IoT controller IP in the AP.

- IOTC-893 - There is no full support for the Internet Explorer.

  Workaround – use a browser from the list of components.
- IOTC-1926 - DB backup/restore does not work from 1.0 or 1.1 to 1.2.

  Workaround – none (not supported).
- IOTC-2117 - All measurement values of Zigbee Devices will be shown as decimal without units.
- IOTC-2118 - After stopping scan start scan will not be shown in the UI.

  Workaround – Click on the refresh button next to the bulk apply.
- IOTC-2129 - GRE tunneling of traffic between AP and IoT controller is not supported.

  Workaround – Use on-premises deployment model with the IoT controller.

Best Practices

1. Stop scan and Remove devices (UI->IoT Devices->select all devices connected to the particular AP->select remove from drop-down->apply) before doing mode change or dongle swap.

2. Both RIoT and vSZ/AP need to be upgraded to their release versions of 1.2 together and upgrade only from the release versions of 1.1, or with vSZ/AP from 3.6.1.0 is supported.

3. Time and Timezone should be properly set in RIoT.

4. For information on clusters, refer to this externally available Zigbee Alliance Zigbee Cluster Library 6 document at http://www.zigbee.org/~zigbeeor/wp-content/uploads/2014/10/07-5123-06-zigbee-cluster-library-specification.pdf.

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350 West Java Dr., Sunnyvale, CA 94089 USA
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