

Ruckus IoT GA 1.1 Release Notes

Supporting IoT Controller Release 1.1

Copyright, Trademark and Proprietary Rights Information

© 2018 ARRIS Enterprises LLC. All rights reserved.

No part of this content may be reproduced in any form or by any means or used to make any derivative work (such as translation, transformation, or adaptation) without written permission from ARRIS International plc and/or its affiliates ("ARRIS"). ARRIS reserves the right to revise or change this content from time to time without obligation on the part of ARRIS to provide notification of such revision or change.

Export Restrictions

These products and associated technical data (in print or electronic form) may be subject to export control laws of the United States of America. It is your responsibility to determine the applicable regulations and to comply with them. The following notice is applicable for all products or technology subject to export control:

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

Disclaimer

THIS CONTENT AND ASSOCIATED PRODUCTS OR SERVICES ("MATERIALS"), ARE PROVIDED "AS IS" AND WITHOUT WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED. TO THE FULLEST EXTENT PERMISSIBLE PURSUANT TO APPLICABLE LAW, ARRIS DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON-INFRINGEMENT, FREEDOM FROM COMPUTER VIRUS, AND WARRANTIES ARISING FROM COURSE OF DEALING OR COURSE OF PERFORMANCE. ARRIS does not represent or warrant that the functions described or contained in the Materials will be uninterrupted or error-free, that defects will be corrected, or are free of viruses or other harmful components. ARRIS does not make any warranties or representations regarding the use of the Materials in terms of their completeness, correctness, accuracy, adequacy, usefulness, timeliness, reliability or otherwise. As a condition of your use of the Materials, you warrant to ARRIS that you will not make use thereof for any purpose that is unlawful or prohibited by their associated terms of use.

Limitation of Liability

IN NO EVENT SHALL ARRIS, ARRIS AFFILIATES, OR THEIR OFFICERS, DIRECTORS, EMPLOYEES, AGENTS, SUPPLIERS, LICENSORS AND THIRD PARTY PARTNERS, BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, PUNITIVE, INCIDENTAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER, EVEN IF ARRIS HAS BEEN PREVIOUSLY ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, WHETHER IN AN ACTION UNDER CONTRACT, TORT, OR ANY OTHER THEORY ARISING FROM YOUR ACCESS TO, OR USE OF, THE MATERIALS. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, some of the above limitations may not apply to you.

Trademarks

ARRIS, the ARRIS logo, Ruckus, Ruckus Wireless, Ruckus Networks, Ruckus logo, the Big Dog design, BeamFlex, ChannelFly, Edgelron, FastIron, HyperEdge, ICX, IronPoint, OPENG, SmartCell, Unleashed, Xclaim, ZoneFlex are trademarks of ARRIS International plc and/or its affiliates. Wi-Fi Alliance, Wi-Fi, the Wi-Fi logo, the Wi-Fi CERTIFIED logo, Wi-Fi Protected Access (WPA), the Wi-Fi Protected Setup logo, and WMM are registered trademarks of Wi-Fi Alliance. Wi-Fi Protected Setup™, Wi-Fi Multimedia™, and WPA2™ are trademarks of Wi-Fi Alliance. All other trademarks are the property of their respective owners.

Contents

Overview	4
Features.....	4
Hardware and Software Compatibility	4
Release Information	5
Caveats, Limitations, and Known Issues	5
Access Point with IoT Module I100	5
Ruckus IoT Controller.....	6

Overview

This document provides release information about Ruckus IoT Suite 1.1, 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)—existing ceiling-mount R510, wall-mount H510, and outdoor T310 will be the first set of APs to become IoT-ready.
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 and 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 Suite 1.1 provides these main features:

- Assa Abloy plugin to allow connected Assa Abloy locks to interact with the Assa Abloy Visionline server.
- Kontakt.io plugin to allow Kontakt.io beacons to communicate with the Kontakt.io cloud over the supported Ruckus Networks access points.
- Ruckus IoT Controller discovery using DHCP Option 43 for IP/FQDN and VLAN discovery from the supported Ruckus Networks access point.
- New Ruckus IoT Controller user interface allowing for hierarchical management and configuration of IoT Access Points and devices.
- TrackR plugin to allow TrackR beacons to communicate with the TrackR cloud in a demo mode.
- Generic iBeacon plugin to allow any third-party iBeacon-based Asset Tracking / Panic Button / Location-Based Services partner to communicate with their backend platform via the Ruckus IoT network.
- Generic Eddystone plugin to allow any third-party Eddystone beacon based Asset Tracking / Panic Button / Location-Based Services partner to communicate with their backend platform via the Ruckus IoT network.
- IBM Watson cloud service to use IBM edge rules with Ruckus IoT Controller-discovered devices in a demo mode.
- Support for indoor H510 and R510 access points and the outdoor T310 access point.

Hardware and Software Compatibility

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

Compatible Hardware:

- R510 Access Point (R510)

- H510 Access Point (H510)
- T310 Access Point (T310)
- 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):

- WLAN Controller version: 3.6.1.2.12010
- Control plane software version in the WLAN Controller: 3.6.1.2.12000
- AP firmware version in the WLAN Controller: 3.6.1.2.12007

RIoT:

- Ruckus IoT Controller version: 1.1.0.0.6
- 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

Caveats, Limitations, and Known Issues

The following are the caveats, limitations, and known issues in this release.

Access Point with IoT Module I100

- 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

- 1828 - ibeacon packets are sent delayed even if aggregation freq is 1000 ms

Workaround – None

- 1829 - kontakt frames are not sent for long time when all 3 plugins are enabled leading to kontakt panel showing 0 beacons

Workaround – Enable only one plugin at any time

Ruckus IoT Controller

- 1716 - source of truth for vlan conflicts with option 43

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

- 1833 - upgrade from 1.0.0.0.25 to 1.1.0.0.5 failed. Stuck at upgrading vriot-authserver deb package

Workaround – After upgrade if the IoT Controller is still in older version, reissue the upgrade again

- 1839 - IOTG_APPROVED command doesn't receive after APs are restored

Workaround – If AP is factory reset wait for AP to come online in IoT Controller then unapproved the AP and Approve it again

- 1854 - Socket timeout observed on SupervisorD.log when Invalid host name is configured.

Workaround – Enter proper host name without special characters



© 2018 ARRIS Enterprises LLC. All rights reserved.
Ruckus Wireless, Inc., a wholly owned subsidiary of ARRIS International plc.
350 West Java Dr., Sunnyvale, CA 94089 USA
www.ruckuswireless.com