RELEASE NOTES

RUCKUS WAN Gateway Release Notes

Supporting RUCKUS WAN Gateway Build 14.735 and earlier releases

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Contents

Contact Information **5**
Contacting RUCKUS Customer Services and Support 5
What Support Do I Need? 5
Open a Case 5
Self-Service Resources 5
Build 14.735 ..... **7**
New Features for Build 14.735 7
Add support for Meraki IPSK (14.716) 7
Hotel Key PMS Rest API Integration (14.721) 7
Add new RUCKUS Cloud WLAN Controller device type (14.728) 7
Cloud-init VMs and VMs from existing disk images (14.733) 7
Bug Fixes for Build 14.735 8
Other Improvements for Build 14.735 8
Build 14.710 ..... **9**
New Features for Build 14.710 9
Add experimental support for Bridge and LAGG Interfaces 9
Allow download of auto provision ISO from cluster node scaffold (14.766) 9
Bug Fixes for Build 14.710 10
Other Improvements for Build 14.710 11

Contact Information

- Contacting RUCKUS Customer Services and Support..... 5

Contacting RUCKUS Customer Services and Support

The Customer Services and Support (CSS) organization is available to provide assistance to customers with active warranties on their RUCKUS products, and customers and partners with active support contracts.

For product support information and details on contacting the Support Team, go directly to the RUCKUS Support Portal using https://support.ruckuswireless.com, or go to https://www.commscope.com/ruckus and select **Support**.

What Support Do I Need?

Technical issues are usually described in terms of priority (or severity). To determine if you need to call and open a case or access the self-service resources, use the following criteria:

- Priority 1 (P1)—Critical. Network or service is down and business is impacted. No known workaround. Go to the **Open a Case** section.
- Priority 2 (P2)—High. Network or service is impacted, but not down. Business impact may be high. Workaround may be available. Go to the **Open a Case** section.
- Priority 3 (P3)—Medium. Network or service is moderately impacted, but most business remains functional. Go to the **Self-Service Resources** section.
- Priority 4 (P4)—Low. Requests for information, product documentation, or product enhancements. Go to the **Self-Service Resources** section.

Open a Case

When your entire network is down (P1), or severely impacted (P2), call the appropriate telephone number listed below to get help:

- Continental United States: 1-855-782-5871
- Canada: 1-855-782-5871
- Europe, Middle East, Africa, Central and South America, and Asia Pacific, toll-free numbers are available at https://support.ruckuswireless.com/contact-us and Live Chat is also available.
- Worldwide toll number for our support organization. Phone charges will apply: +1-650-265-0903

We suggest that you keep a physical note of the appropriate support number in case you have an entire network outage.

Self-Service Resources

The RUCKUS Support Portal at https://support.ruckuswireless.com offers a number of tools to help you to research and resolve problems with your RUCKUS products, including:

- Technical Documentation—https://support.ruckuswireless.com/documents
- Community Forums—https://community.ruckuswireless.com
- Knowledge Base Articles—https://support.ruckuswireless.com/answers
- Software Downloads and Release Notes—https://support.ruckuswireless.com/#products_grid

- Security Bulletins—https://support.ruckuswireless.com/security

Using these resources will help you to resolve some issues, and will provide TAC with additional data from your troubleshooting analysis if you still require assistance through a support case or RMA. If you still require help, open and manage your case at https://support.ruckuswireless.com/case_management.

Build 14.735

- New Features for Build 14.735 7
- Bug Fixes for Build 14.735 8
- Other Improvements for Build 14.735 8

New Features for Build 14.735

Here is a list of new features for Build 14.735.

Add support for Meraki IPSK (14.716)

- Add support for PMK derivation using the Meraki-IPSK-* request attributes
- Utilizes the Tunnel-Password RADIUS Response Attribute for delivering the PSK

Hotel Key PMS Rest API Integration (14.721)

- Required configuration fields:
  - Interface -> Hotelkey
  - Host -> FQDN eg 00.us-east-1.hkdemo.hotelkeyapp.com
  - Web Service Url -> Scheme + FQDN eg https://00.us-east-1.hkdemo.hotelkeyapp.com
  - Username/API Key -> Username for Room Inquiry/Charging
  - Password -> Password for Room Inquiry/Charging
    - (See Username & Password from Inquire Charge Details Section of https://hk-data.hotelkeyapp.com/
  - Property Identifier -> Provided by Hotelkey
  - HTNG Username -> app_id used for initial sync
  - HTNG Password -> app_secret used for initial sync
    - See Poll Model from https://hk-data.hotelkeyapp.com/

Add new RUCKUS Cloud WLAN Controller device type (14.728)

- Add support for config sync against RUCKUS Cloud infrastructure devices
- Supports all WLAN types except DPSK, as RADIUS-based DPSK is not currently supported

Cloud-init VMs and VMs from existing disk images (14.733)

- Add support for uploading a cloud-init enabled Disk Image, and supplying the initial networking and SSH key via VM configuration options
- Allow Disk Image uploads of existing disk images, including the following file formats:
  - OVA
  - VMDK
  - QCOW2
  - IMG
  - TAR.GZ
  - TAR.XZ

- Allow the specification of a source disk image when creating a new VM

  NOTE
  Uploading a file in a format other than raw img will require extraction and/or conversion before VM creation. Ensure there is sufficient disk space to hold the original image as well as the extracted and/or converted disk.

Bug Fixes for Build 14.735

Here is a list of bug fixes for Build 14.735.

- Fix issue where a change to the license does not take effect on cluster nodes, resulting in failure to perform background login for devices (14.712)
- Fix bug that prevents adding CIDRs to IP Groups (14.715)
- Fix health notices table sorting when clicking on the table headers (14.718)
- Fix bug that prevented asset compilation after a database restore, preventing GUI access and Interface remapping (14.720)
- Fix an issue where attempting to upload an invalid upgrade file results in a blank upgrade_rxg script, breaking the ability to upgrade (14.723)
- Fix "date/time field value out of range" error when creating TransientGroupMemberships for Time Triggers (14.724)
- Fix issue that prevents DHCPd from starting when there are over 1000 VLANs (14.725)
- Fix issue that prevents health notice cured messages from being sent when some Health Notices are cured (14.729)
- Exclude Fleet Metrics table from backup if the Graph Databases option is not set (14.735)

Other Improvements for Build 14.735

Here is a list of other improvement for Build 14.735.

- Add support for instrumenting wired clients via SNMP for generic switches or where the import client is unavailable (14.713)
- Make HTTP Access Log status codes searchable as a range, allowing the operator the ability to search for all responses greater than a specific code (e.g. >= 400) (14.717)
- Get RUCKUS SmartZone domain list recursively in the event there are child domains (14.719)
- Mask the password field while creating and editing BackupServers (14.722)
- Use branded assets for the default portal and newly created Custom Portals and Operator Portals (14.726)
- Update Unified API to support Fleet Node onboarding actions such as joining and leaving a fleet (14.730)
- Improve the domain filter feature of SmartZone config sync, and allow a filter using the GUID or Domain name (14.714, 14.731)

Build 14.710

- New Features for Build 14.710 9
- Bug Fixes for Build 14.710 10
- Other Improvements for Build 14.710 11

New Features for Build 14.710

Here is a list of new features for Build 14.710.

Add experimental support for Bridge and LAGG Interfaces

- Bridge and LAGG interfaces may be created within the Pseudo Interfaces scaffold
- May not yet support all use cases
- Bridges (14.639)
  - Support defining arbitrary bridge interfaces within the PseudoInterfaces scaffold
  - Bridges may have interfaces, virtual interfaces, or VXLAN pseudointerfaces added as members
  - VXLANs may have VLANs assigned as children interfaces in order to transport the VLAN via the VXLAN tunnel to a remote VTEP.
  - For switches that don't support passing VLAN traffic through the tunnel and instead only support mapping the VLAN to a VNI, traffic arrives on the VXLAN interface directly, and we don't know what VLAN it came from.
    - In order to support this, the VXLAN interface must be added to a bridge along with the VLAN interface so that traffic is sent without the tag
- Link Aggregation groups (LAGG) (14.651)
  - LAGG interfaces may have Interfaces added as members.
  - A LAGG Protocol must be selected from the following:
    - Failover - Sends traffic only through the active port. If the master port becomes unavailable, the next active port is used. Traffic is only accepted through the active port.
    - LACP - Supports the IEEE 802.1AX (formerly 802.3ad) Link Aggregation Control Protocol (LACP) and the Marker Protocol. The traffic will be balanced across the ports in the LAG. In the event of changes in physical connectivity, Link Aggregation will quickly converge to a new configuration.
    - Load Balance - Balances outgoing traffic across the active ports based on hashed protocol header information and accepts incoming traffic from any active port. This is a static setup and does not negotiate aggregation with the peer or exchange frames to monitor the link. The hash includes the Ethernet source and destination address, and, if available, the VLAN tag, and the IP source and destination address.
    - Round Robin - Distributes outgoing traffic using a round-robin scheduler through all active ports and accepts incoming traffic from any active port. Using roundrobin mode can cause unordered packet arrival at the client. Throughput might be limited as the client performs CPU-intensive packet reordering.
    - Broadcast - Sends frames to all ports of the LAG and receives frames on any port of the LAG.
    - None - This protocol is intended to do nothing: it disables any traffic without disabling the lagg interface itself.

Allow download of auto provision ISO from cluster node scaffold (14.766)

- Add ability to generate an auto provision iso and download it via the cluster nodes scaffold.

- This is useful when deploying cluster nodes as VMware VMs, since you can mount the ISO as a CD-ROM image to the VM and have it automatically join the cluster, similar to the behavior of a Bhyve cluster node.
- Operator must provide the cluster interface name when generating the ISO.

Bug Fixes for Build 14.710

Here is a list of bug fixes for Build 14.710.

- Fix IoT effect dropdown select in Chrome on Windows (14.626)
- Fix recurring notification actions to retain the "minute" value when advancing the schedule (14.628)
- Fix issue with not being able to enable BiNATs from the user portal (14.630)
- Fix device manager port forwards (14.631)
- UPnP related bug fixes:
  - Fix UPnP Error "failed to load command" (14.646)
  - Fix "ArgumentError: Only UUIDs are valid namespace identifiers" exception (14.647)
  - Fix issue where some UPnP clients (such as Xbox) will not proceed with the UPnP process if the UUID is not fully valid. (14.652)
  - Only show port forwards if virtual gateway is enabled, not UPnP (14.632)
  - When retrieving the list of existing port forwards, restrict the results to only those that belong to the account of the device sending the request (14.649)
- Fix accept LAN party invitation form action (14.644)
- Fix exception generated when deleting an AP Zone without an infrastructure device (14.648)
- Avoid throwing the error "ignoring IP # MAC # for automatic login: MAC is behind another cluster node with a more recent VLAN assignment #" when the cluster node associated to the VTA is gimped and this node has taken over for it (14.650)
- Fix database migration from older systems by skipping the omniauth initializer if we are in a db:migrate task to avoid referencing the missing column (14.654)
- Disable auto update object cache for NatAssignmentLog which can cause rxgd to hang on busy systems (14.655)
- Fix user portal Hourly Usage Today/Top Consumers cosolidation (14.659,14.661)
- Fix issue where sync does not occur when proxy_aaa_requests changes (14.665)
- Fix 'wrong num args' error because :redirect_to_back_or_index takes no args (14.672)
- SmartZone related bug fixes:
  - Fix missing scaffold validations for 802.1X EAP-MAC WLANs (14.660)
  - Fix vSZ 802.1X EAP-MAC fails to sync (14.673)
  - Fix vSZ zone importation of DFS and channel width (14.676)
  - Added missing pagination logic in vSZ sync (14.678)
  - Fix for disabling OFDM on vSZ (14.693)
  - Fix bug where changes to a VLAN with a switch port profile configured does not push VLAN config to those switch port profiles (14.657)
- Fix typo in sub_account_update action (14.684)
- Fix OPTIONS fields bug in license keys API (14.685)
- Fix horizontal entities showing 'unmapped' whether an entity has been mapped to them or not in IoT build card preview (14.687)
- Fix expire_sessions excessive logging error (14.691)
- Fix Virtual Switch instrumentation issue that can cause rxgd to crash (14.692)

- Fix ifconfig parsing to properly detect virtual switch bridges where the record name did not match the regular expression (e.g. vm-172_30_88_0)(14.692)
- Fix for update_at not being updated when a conference is expired (14.694)
- Fix 13.1 kernel uname output to include the patch revision number, which is currently missing, causing security scans to fail (14.695)
- Fix issue that caused incorrect BiNAT configuration when NAT reflection was disabled (14.696)
- Fix an issue where product branding/logos are not properly applied after applying a license (14.697)
- Fix issue with Snort IDS. Previously, depending on interface ordering, Snort may not detect events properly. Snort is patched to restore support for monitoring pflog interface on FreeBSD 13.1. (14.698)
- Fix bug in deny ar transaction FOM operation (14.699)
- Fix bug that can cause assets to not be compiled correctly when performing a database restore (14.700)
- Fix usage of deprecated URI.encode that breaks Extreme EXOS sync (14.703)
- Fix bad reference to all_tables_and_postgresql_sequences briefly introduced in 14.707 (14.710)

Other Improvements for Build 14.710

Here is a list of other improvement for Build 14.710.

- UI improvements when using RUCKUS Unleased/ZoneDirector (14.627)
- Enable initial setup via unified API (14.624)
- Delayed Job improvements:
  - Convert instrumented into sul_stats delayed job (14.625)
  - Scheduled cluster node jobs (14.633)
  - Refactor Delayed Job priority (14.634)
  - Convert email_users daemon to delayed job (14.635)
  - Convert bill_users daemon to a periodic delayed job (14.636)
- Add aliases to perform a phased restart (rpu1) or a hot restart (rpu2) of the puma webserver using the SIGUSR1 and SIGUSR2 signals to the parent process (14.638)
- Automatically retry after errors encountered in the Fleet operator portal and show details of errors that were encountered (14.640)
- Enable FOM Admin to transfer balance to an account (14.641)
- Allow disk image uploads on non-controller virtualization hosts (14.642)
- Disable SQL logging in script environment (14.643)
- Request license if soft_expires_at is expiring within the EXPIRES_SOON_TIME (14.653)
- Rename huggermugger to license_key in API; add full_iui (14.662)
- Add domain_name to license_key(s) API endpoints (14.663)
- Add non-proxy AAA support to vSZ (14.664)
- Add password/confirmation to admins API (14.667)
- Mark password/confirmation fields as write_only in API (14.668)
- Do not auto import when creating/updating wlan device (14.670)
- Update existing RUCKUS admin logos (14.671)
- Add system switches to device_options API (14.674)
- Make sub account group editable from account_info view (14.675)

Build 14.710
Other Improvements for Build 14.710

- Added validation to not allow DPSK with non-proxy AAA (14.677)
- Add support for cloning a policy via new action link (14.679)
- Added API help and misc other improvements (14.680)
- Increase maximum Binat Pool sticky timeout to 90 days (14.683)
- Fix 13.1 kernel build/uname output to include the patch revision number, which was missing, causing security scans to fail (14.695)
- Refactor sub-accounts table in default portal to improve usability on mobile (14.701)
- Ensure database permissions on Timescaledb continuous aggregate tables are maintained along with normal tables/sequences (14.707)

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