

OR100 Series – Release Notes

Firmware Version: **1.5 (030221)**

Product Overview

KeyWest Networks OR100 series radios are designed specifically for smart cities and service provider industry, providing end to end solution to deploy and manage the wireless networks. These products can serve Point to Point (PTP) and Point to Multipoint (PTMP) connectivity that deliver low latency, high performance, and uptime under dense RF conditions.

This document provides release notes with details on new features, enhancements and issues fixed in current firmware.

NOTE: This release is not compatible with earlier releases due to significant enhancements. One must upgrade remote device first before upgrading local device of existing RF link.

New Features & Enhancements

1. Compatibility with old firmware versions (Base version: 1.2 (093020))
2. Protocol Inactivity
 - a. Triggers link disconnection (Node Timeout) when there is no packet exchange
 - b. Renamed the Log from Node Inactivity triggered to Protocol Inactivity triggered
3. Sleep Mode disabled by default
4. Renamed Wireless Inactivity to Interface Inactivity
5. Link Inactivity
 - a. This inactivity triggers wireless restart if packets are not exchanged from bridge for 5 Minutes
 - b. This is disabled by default
6. Link Aggregation
 - a. Enabled configuration support of bridge group forwarding mask in kernel
 - b. Default: enable all
 - c. Configuration is supported from SNMP
7. Disable support for TSO/GRO features in Ethernet driver
8. Changes to avoid flash writes during
 - a. SNMP trap generation
 - b. Wireless Events, Ethernet Events
 - i. Stored only in RAM
 - ii. Events are not retained after reboot / Power Off / Firmware Upgrade
 - iii. Display of last boot logs is removed from GUI
 - c. Spectrum Scan results
 - i. Results are stored only in RAM and not retained after reboot

Bugs Fixed

1	<p>Target Assert in Firmware</p> <ol style="list-style-type: none"> Fix for target assert In case still target assert is observed, generating a reboot log ('Reboot initiated due to radio chip tuning') and soft rebooting the device
2	<p>Protocol Inactivity due to Tx timeout in</p> <ol style="list-style-type: none"> Max Latency: When firmware does not acknowledge the Tx completion of the packet within the timeout, host waits for additional latency of 150ms before transmitting to next SU transmission Max Latency configurable range: (100 – 2000) ms, default: 150ms
3	<p>Memory Leak Issue</p> <ol style="list-style-type: none"> Fixed Memory leak issue Memory Leak Detection <ol style="list-style-type: none"> Trigger reboot immediately when system memory crossed 95% Generating a reboot log when memory crossing threshold of 80%
4	Fixed the Ethernet Random crash issue
5	Fixed the issue with priority enabled VLAN packets in Trunk/Access VLAN modes
6	Fixed the issue of retaining of radio mode during factory reset with retain of wireless config
7	Station Kickout is disabled for all Link Types

Known Issue

1	Reduction in throughput when all packets sent are less than 256-bytes – not utilizing the wireless interface effectively. No issues with mixed size packets.
2	RF Link Termination in the Interference environment: Sometimes the wireless RF link gets disconnected due to the radio being unable to transmit and receive the wireless packets.

Supported Radios Models

Product Models	Part Numbers	Descriptions
OR100 Series	APOR100-B18	Base Unit – 5GHz 2x2 MIMO with 18 dBi 60 ⁰ sector antenna
	APOR100-C23	Base PTP Unit – 5GHz 2x2 MIMO with 23 dBi panel antenna
	APOR100-C18	Subscriber Unit – 5GHz 2x2 MIMO with 18 dBi panel antenna
	APOR100-X00	Base Unit – 5GHz 2x2 MIMO with 2 N-Type RF connectors