

OR100 Series – Release Notes

Firmware Version: **2.2 (011922)**

Product Overview

KeyWest Networks OR100 series radios are designed specifically for smart city applications and wireless internet service providers, providing end to end solutions to deploy and manage their networks. These products can serve in Point to Point (PTP) and Point to Multipoint (PTMP) configuration that deliver low latency, 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:

- 1. One must upgrade the remote device first before upgrading the local device of the existing RF link.**
- 2. This release is compatible with release version 1.5 (build 030221), 2.1(build 091621)**
- 3. This release is NOT compatible with releases prior to version 1.2 (build 093020) due to significant enhancements.**

New Features & Enhancements

1. Wireless
 - a. US 4.9GHz channels support
 - b. US DFS Channels support – 5.47GHz to 5.725 GHz
 - c. Dynamic Channel Selection (DCS) improvements
 - d. Auto Channel Selection (ACS) improvements
 - e. Enhance Spectrum Analyzer with list of best channels to operate
 - f. Dynamic configuration of wireless link parameters, without causing link drop
 - g. Small packet performance improvements
2. Network
 - a. Hot-Standby functionality
 - i. 1+1 – Link Redundancy
 - ii. 1+0 – Device Redundancy
3. General
 - a. Faster firmware upgrades

- b. Failsafe mode – to recover the unit
 - i. Support in web UI interface
 - ii. Locator tool support
 - iii. Auto Provisioning – Need ORNMS deployment prior enabling this feature

Bugs Fixed

1	Fix for target assert
2	Protocol Inactivity due to Tx timeout <ul style="list-style-type: none"> a. 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 b. Max Latency configurable range: (100 – 2000) ms, default: 150ms
3	Device rebooting due to memory leak
4	DDRS algorithm enhancements
5	Enabled watchdog support

Known Issue

1	RF Link terminates in the Interference environment: Sometimes RF link gets disconnected due to the radio being unable to transmit and receive the wireless packets.
2	Dying Gasp trap is not generated over the Ethernet in the event of AP power failure

Supported Radios Models

Product Models	Part Numbers	Descriptions
OR100 Series	APOR100-B18	Base Unit – 5GHz 2x2 MIMO with 18 dBi 60° 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