TARANA

BROADBAND REINVENTED

G1 Device Software Release Notes 3.207.002

vRN-G1-2025-02-v4

Table of Contents

Note: For the most-up-to-date manuals, please download the latest version of this document on our customer portal: support.taranawireless.com

Intended Audience

This document is intended for use by system administrators and engineers interested in the design, daily management, operations, and troubleshooting of a Tarana G1 network including Base Nodes, Remote Nodes, and the Tarana Cloud Suite (TCS).

It is assumed that the reader has a good working knowledge of radio frequency (RF), wireless systems, and networking concepts.

The G1 products are designed for installation and use by trained professionals and require adherence to all relevant regulatory, safety, and telecom industry best practice guidelines for outdoor radios. It is assumed that the Tarana G1 Base Node and Remote Nodes have been installed onsite and are connected to TCS.

Models Supported by Release 3.207.002

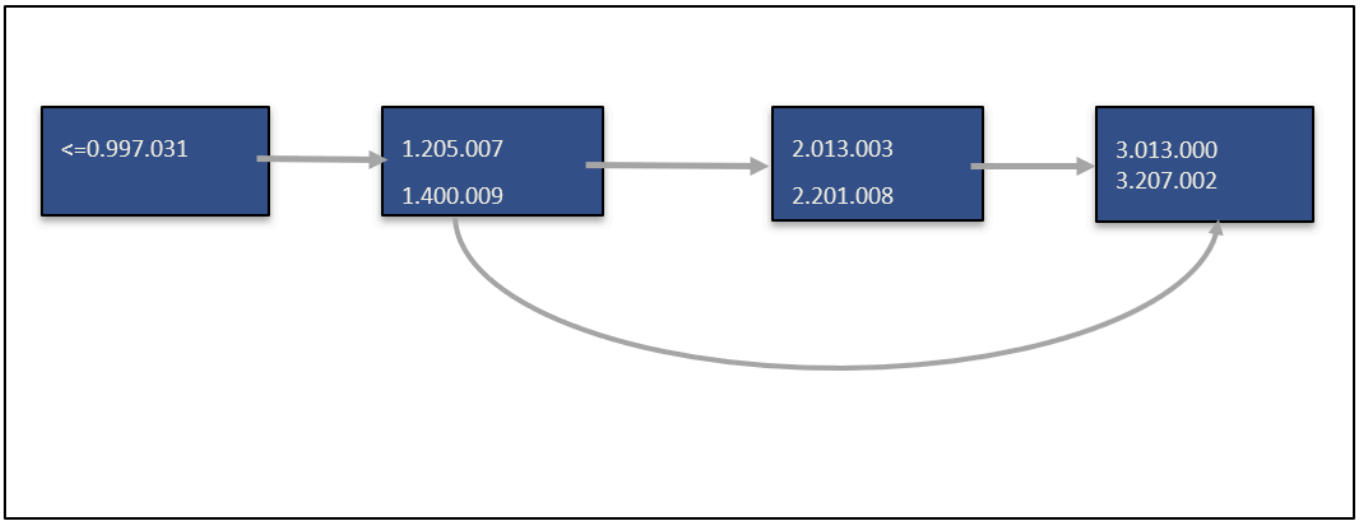
Frequency	Device Type	Part Number	Description
5 GHz	BN	30-0134-001	5 GHz Base Node
	RN	30-0128-001 30-0150-001 30-0160-001	5 GHz Residential Node
3.5 GHz	BN	30-0141-001	3.5 GHz CBRS Base Node
	RN	30-0142-001 30-0152-001	3.5 GHz CBRS Residential Node
6 GHz	BN	30-0171-001	6 GHz Base Node
	RN	30-0170-001	6 GHz Residential Node

Software Compatibility

BN ---> / RN	2.013	2.201	3.013	3.207
2.013	✅	✅	✅	✅
2.201	✅	✅	✅	✅
3.013	✅	✅	✅	✅
3.207	✅	✅	✅	✅

- Please note that RNs running software older than 1.205 will not be able to connect to BNs running 3.207. Upgrade all RNs to one of the compatible versions before upgrading the BNs to 3.207.
- Any BN with a current software revision 1.205 or higher can be directly upgraded to 3.207.002.
- Any BN with a current software revision lower than 1.205 must be upgraded to 1.205 or 1.400 before upgrading to 3.207.002.
- It is recommended that EA (early access) operators upgrade to the 3.2 GA software version.
- It is recommended that the RNs be upgraded first followed by the BNs.
- For 6 GHz RNs with part number 30-0170-001, the minimum software version is 2.013.
- Deprecated SW versions: Support and defect fixes for the following versions (and all older versions) will be deprecated
    - 1.400 - January 31, 2025

Upgrade Paths



Security Fixes

#	Description
G1-26931	CWE 693 - Protection Mechanism Failure. This has been remediated.

Features

#	Description
1	**DHCPv6 Options 18 and 37** The DHCPv6 Option-18/Option-37 feature allows operators to authenticate subscribers and assign IPv6 addresses. ● DHCPv6 Option 18, also called the Interface Identifier option, is essential in DHCPv6 relay and snooping configurations. It allows network devices to append additional information about the client's connection to DHCPv6 requests before they are sent to the server. In this case, the BN will include the Interface-ID in Option 18. ● DHCPv6 Option 37, or the Remote Identifier option, is used to identify the client in DHCPv6 communications. The BN will insert the Remote-ID in Option 37. ● These are the supported identifiers ○ BN MAC Address (ASCII) ○ BN MAC Address (HEX) ○ BN Serial Number (ASCII) ○ CPE MAC Address (ASCII) ○ CPE MAC Address (HEX) ○ RN MAC Address (ASCII) ○ RN MAC Address (HEX) ○ RN Serial Number (ASCII) Note: Downstream ARP is not supported when used with DHCPv6 relay. A warning message will be shown in TCS during the DHCPv6 settings configuration if ARP is already enabled.
2	**Management Plane: Support for IPv6** This feature enables configuring BNs with IPv6 addresses for device management. The IPv6 addresses can be configured through static assignment (IP Address/Prefix Length/Gateway). Note that SLAAC and DHCPv6 are not currently supported for device management.

3	**Other Enhancements** • The device now reports updated disconnect reasons which will provide better insights into the event that caused the disconnect. Note: TCS side updates needed for this will be available in March 2025. • The Interference-to-Noise Ratio Max metric now reports values for each 10 MHz channel instead of the total 40 MHz on the BN and RN Device UI. • The robustness of the control channels for operation in the CBRS spectrum has been increased. If very low power grants are provided by SAS on one of the carriers, the control channels operating on this carrier are seamlessly handed off to the carrier with higher power. • Alarm descriptions and recommended actions have been updated. • AddOn FTLX1471D3BTL SFP+ module is now supported.

Defects Fixed

#	Description
G1-27629	ARP broadcast feature is not supported in case of untagged data VLAN. Note: Support for all downlink broadcasts combined with untagged data configuration has now been implemented. Currently TCS support is not present for this feature. Please contact Tarana Support to enable it.
G1-29399	In rare cases, the data traffic would get stuck on all connected links. In such cases, the BN will be automatically rebooted to recover from the situation.
G1-29232	In very rare scenarios, some of the carriers on the BN/RN remained in disabled state.
G1-28087	In rare cases BN's web UI is accessed instead of RN's web UI on using default management IP.
G1-30293	Some of the sector edge and long range links had performance degradation with 3.2 early access and 3.0 GA software.
G1-30382	Incorrect latency reported with link speed test.

Known Limitations

#	Description
G1-20784	Updating configuration parameters on BN/RN web UI spawned through TCS might result in inconsistent behavior. The recommended way is to use TCS UI to configure the parameters.
G1-23837	When an RN is configured with a primary BN, it will be selected for connection even if the search metric (signal strength) to this BN is low. There could be other BNs that have a better search metric to this RN.

	Please choose a different primary BN or remove the primary BN which will result in the RN connecting to the best available BN.
G1-27358	RN UI connection history page might show the disconnect reason for RN as None.
G1-27627	Device UI logs the user out upon refreshing the browser. Please login again.
G1-27628	While asymmetric grant allows RNs to have partial spectrum relative to the BN spectrum, in some cases there might be a brief (< 5 mins) link disruption.
G1-28185	In heavy-interference environments, if a speed test is executed to characterize link performance, the initial results might show lower than expected speeds. Please re-run the test multiple (4 to 5) times.
G1-28235	For SLA profiles configured with DL rates greater than 500 Mbps, the actual rates might exceed more than the configured rates.