



TCS Release Notes for CBRS 2023-02

10-0039-001

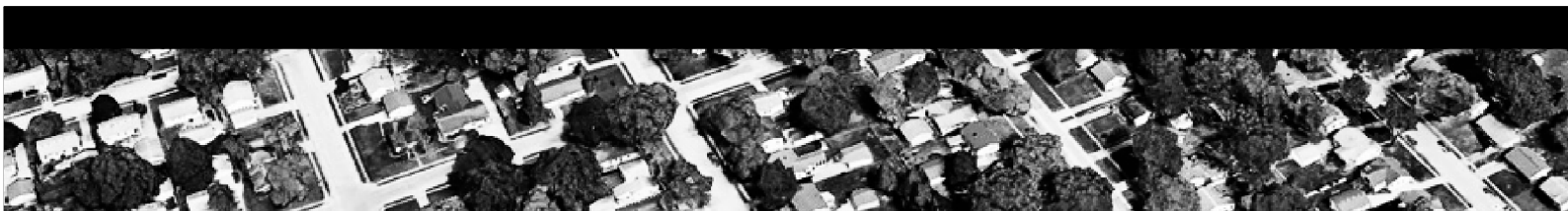


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This document is intended for use by Tarana customers and their employees who use Tarana Cloud Suite (TCS) to monitor, manage, and troubleshoot a Tarana G1 network, which consists of Tarana Base Nodes and Remote Nodes (BNs and RNs). G1 BNs and RNs use the unlicensed spectrums 5 GHz and 3 GHz (CBRS).

Note: For the most up-to-date documentation and videos, see our support portal at:
<https://support.taranawireless.com/hc/en-us>

Usability Enhancements

The following are minor functional, workflow, and visual enhancements to TCS.

Unsuccessful Grant Visibility

When the Spectrum Access System (SAS) rejects a grant request, the unsuccessful grant appears in the Spectrum tab of the Events page. By collecting grant request rejection messages in a single location, administrators can use the information to troubleshoot network behavior more efficiently.

User Email Column

The table on the Spectrum tab of the Events page now contains a User Email column.

API Enhancement

You can now update the certified professional installer (CPI) ID through the Northbound API.

SAS Registration Improvement

When you update a CPI ID in TCS, TCS reregisters with the SAS so that all devices possess the same information.

Fixed Issues

ID	Description
TCC-10568	The Reset button was not working for preferred and excluded frequencies.
TCC-10432	Grant Failure events were not appearing in the Spectrum Events page.
TCC-10415	Remote nodes sometimes only received one grant and needed to reacquire spectrum by requesting a new grant from the Spectrum Access System (SAS).
TCC-10236	When a grant was suspended by the SAS because of dynamic protection area (DPA) activity, TCS did not seek available frequency alternatives.
TCC-10198	When carrier frequencies were changed, TCS did not reflect the change in the remote node status card.
TCC-10114	TCS was unnecessarily logging null heartbeat responses from the SAS.
TCC-9970	When azimuth was changed on a device, TCS did not report the change to the SAS.
TCC-9869	When administrators attempted to migrate remote nodes to another base node, TCS continued to send heartbeats to the SAS using the grant of the previous base node.
TCC-9867	The carrier frequencies that appeared in the device table did not match the carrier frequencies that appeared on the single device page.
TCC-9681	TCS was logging heartbeat timer updates unnecessarily as configuration events. This change does not affect the heartbeat information on the CBRS status card.
TCC-9641	TCS was not sending a spectrum inquiry when preferred carrier frequency was configured.

TCC-9625	When the preferred frequency for carrier 1 overlapped with an existing grant for carrier 0, TCS did not request a grant for carrier 1.
TCC-9207	TCS was displaying batched events as individual events.
TCC-9103	TCS was not filtering events properly in the Single Device page.
TCC-8915	After a grant was rejected by the SAS because MaxEIRP was exceeded, TCS did not resend a grant request with an appropriate EIRP.

Known Limitations

Description
<p>Base nodes cannot accept remote node connections when a grant exists only on Carrier1.</p> <p>Workaround: Set the preferred frequency from Spectrum Management, and then reacquire spectrum.</p>
<p>Remote nodes cannot connect to the base node if the spectrum provided by the SAS for the remote node is different from the base node spectrum.</p> <p>Workaround: Using Spectrum Management, update base node spectrum to match what is available at the remote node.</p>
<p>After an administrator attempts to reacquire spectrum, the CBRS Summary card displays old information.</p> <p>Workaround: The card updates when the spectrum reacquisition is completed in about 30 seconds.</p>
<p>When a remote node disconnects from one base node and connects to another base node on different frequencies, a new grant can take up to 20 minutes.</p> <p>Workaround: Select Reacquire Spectrum to request a new grant immediately.</p>

About Tarana

Tarana Wireless, Inc. is the performance leader in fixed wireless access network solutions, powered by a number of industry-first and well-proven breakthroughs in perfect, multidimensional optimization of radio signals. Its Gigabit 1 fixed access system overcomes previously insurmountable network economics challenges for service providers in both mainstream broadband and underserved markets, using free unlicensed spectrum. The company is headquartered in Milpitas, California, with additional research and development in Pune, India. For more information, visit taranawireless.com.