

Product Bulletin

Trimble Positioning Services
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SECURITY UPGRADE FOR TRIMBLE RTX SERVICES CUSTOMERS USING THE RTXPA BEAM - FIRMWARE UPDATE MAY BE REQUIRED

To better serve our customers, the Trimble RTX® APAC beam (RTXPA) will undergo two changes in 2022. The first change will occur in May 2022 and ensures a continued accurate and reliable Trimble RTX signal by removing the BeiDou generation II (BDS-II) satellites from the beam. The second change will occur in December 2022 and involves an advanced encryption standard (AES) security upgrade that will protect the correction stream from fake data. **All Trimble RTX** correction service users are required to be operating on a minimum firmware version specific to their receiver type. **The required firmware versions can be found [here](#).** If the device is not listed please call [Trimble customer care](#) for assistance.

Timeline of Events

Region	Beam	BDS-II Removed	AES Activation
APAC	RTXPA	31 May 2022	1 December 2022

Next Steps

Please check the firmware versions that your customers are currently using to understand if action is required.

- If your customer is using a firmware **below** the [minimum required version](#), upgrade their receiver before December 1, 2022 to ensure that the receiver will still obtain Trimble RTX correction services.
- If your customer is using a ProPoint technology receiver (such as the NAV-900, NAV-500, R12i, R12 or SPS986) and has firmware **below** the minimum required version, upgrade their receiver before May 31, 2022 to obtain the reduced convergence time from the addition of BeiDou generation III satellites (which were added in July 2021).
- If your customer is using at least the minimum required version, no action is required.

NOTE: All customers using firmware below the minimum required version will not be able to use Trimble RTX correction services after December 1, 2022 and need to take action as soon as possible. To minimize disruption for and to ensure a smooth transition here is an [AES summary](#) .

<https://positioningservices.trimble.com/>

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BeiDou II removal - Background

In preparation for the Trimble RTX beam encryption upgrade, BeiDou generation II (BDS-II) satellites will be removed from the RTXPA beam transmission in May 2022 which will ensure a continued accurate and reliable Trimble RTX signal. BeiDou generation III (BDS-III) satellites were included in the RTXPA beam starting in July 2021 and benefited customers by providing a significant reduction in the convergence time for receivers running Trimble ProPoint firmware.

Advanced Encryption Standard (AES) - Background

Trimble leverages the most advanced technology available to protect our correction data streams to ensure they are reliable and trustworthy. With the activation of AES, Trimble RTX users can now be more confident that the Trimble RTX correction data is provided by Trimble only. The additional security layer of AES makes Trimble GNSS receivers less vulnerable to data pretending to be Trimble RTX correction data. Fake data, also known as 'spoofed data' could lead to unexpected effects like degraded performance, uncorrected positioning or wrong positioning.

The AES activation affects **all** Trimble RTX and Trimble xFill compatible devices, regardless of the transmission method of L-Band or IP.

For more information

For more information please contact our local [Trimble Customer Care](#) teams.