

OXTS Ltd

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Re: GPS Rollover Trade-In Scheme

Further to the recent Customer Notice regarding the GPS week rollover impact on legacy systems, please find details of a specific trade in scheme for these units, that can be used to mitigate the impact on the customer. OXTS recognises that this is not ideal, even with legacy equipment. In the interest of providing the best possible customer experience, we are launching a dedicated trade in scheme for customers who are impacted by this.

Background

GPS time is represented as a week counter starting from 6 January 1980. Due to limitations in the GPS navigation message format, the week counter rolls over every 1024 weeks (approximately 19.7 years). These rollover events occurred in 1999 and most recently on 6 April 2019.

When the most recent rollover even happened in 2019, most modern receivers already had built-in mitigation to handle the event. However, older generations of GNSS receivers that were End of Life had limited or no mitigation, resulting in potentially outputting an invalid date.

Rather than solely relying on the GNSS receiver firmware, OXTS also implemented our own mitigation in our INS firmware, enabling our legacy products to continue operating correctly past the date at which the GNSS receiver firmware would have caused the week number to rollover and the date expire.

The OXTS firmware mitigation implemented for the 2019 GPS Week Rollover has a finite operational lifespan. That mitigation will expire in August 2026, after which affected systems will no longer be able to correctly interpret GPS date information.

Impact after August 2026

Once the mitigation expires:

- GPS date and time outputs will become invalid.
- While the system may continue to output correct navigation measurements, the timestamps for that data will be incorrect.
- Systems relying on GPS time will malfunction.

Why can this not be fixed?

- The impacted hardware platforms are legacy systems, ending production 10+ years ago.
- The underlying OXTS firmware architecture (RTBNS) reached end of life in 2020.
- As a result, no further firmware or software remediation is technically possible.

Affected Product(s)

If the customer system was originally purchased prior to 2016, it is likely to be affected. The full list of affected models is shown in the table below. If you are unsure whether a specific system will be affected, please get in contact.



GNSS receiver model	Affected OXTS models
Novatel OEM4	RT3000 v1 models (RT3002, RT3003, RT3100, RT3102, RT3200, RT3040, RT3042, RT3050) RT4000 v1 models (RT4002, RT4003)
Ublox LEA-4	RT2000 v1 models (RT2500, RT2502) Inertial+ v1 models (Inertial+, Inertial+2)

GPS Rollover Trade-In Scheme:

Customers will receive the following discounts:

- **25% off** the list price of a new **RT3000 v4 base model** (all model variants).
- **100% off feature codes** already applied, or **comparable to the unit being traded in**.
- **50% off** the list price of any **additional feature codes** and feature code bundles purchased at the time of trade-in.

Many thanks,



Matt Oughton

Director of Commercial