

Customer Notification– OSNMA Authentication changes

Product Affected: All Septentrio product supporting OSNMA

With the current notification, we want to inform that since December 1st 2023, the scope of the OSNMA Public Observation Test phase has evolved as follows:

The European Union Agency for the Space Programme (EUSPA) together with the European Commission have published an update of the Galileo Open Service Navigation Message Authentication (OSNMA) Signal-in-Space (SIS) Interface Control Document (ICD). The main scope of this update is the inclusion of additional MAC of the OSNMA signal during the on-going Public Observation Test Phase and the future Service Provision Phase.

The added MAC look-up Table ID#34 is expected to be broadcasted starting December 01st 2023.

Current Septentrio software are not supporting this new ID#34, as a result Septentrio receivers will not be able to authenticate Galileo satellites anymore when OSNMA is set to loose or strict mode. The receiver would show zero authentic satellites and consider the Galileo constellation spoofed, alternatively depending on the receiver model, the authentication will be reported as failed.

Please note, receivers will need to be configured with OSNMA OFF to still use Galileo satellites inside the computed position.

Septentrio is rolling out new firmware for its OEM boards and modules receivers (SW 4.14.4) to support the Galileo OSNMA protocol update.

Other Septentrio receivers which support OSNMA and have not (yet) received this update (i.e. PolaRx5, AsteRx-U3, INS products), will currently not be able to use OSNMA until a future firmware update planed after OSNMA will reach the service declaration phase.

Our technical support department can be reached at customersupport.septentrio.com and will be happy to assist you if needed.

Best Regards,
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Head of Product Management



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