



## **Release Notes and Installation Guide**

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Altus NR3 Firmware Package v1.3.0



# 1 Installation Guidelines

This is the first release of the firmware for the Altus NR3. The receivers shipped from Septentrio come with this firmware pre-installed.

In order to upgrade the firmware to version 1.3.0, the following files must be installed on the receiver:

	SUF file	Located in	Contains
1.	Altus NR3-firmware-1.3.0-OS_failsafe.suf	firmware/failsafe/	See Section 5
2.	Altus NR3-firmware-1.3.0-full.suf	firmware/	See section 5

If the version of the bootloader is not 2.0.2-gf7139c1, the bootloader should be upgraded using the file Altus NR3-firmware-1.3.0-OS\_bootloader.suf, see Section 5.

## 2 Known Issues and Limitations

1. When entering NTRIP mount point names for the NTRIP client configuration the user must exactly match the case or the receiver will not find the mount point.
2. If the message "USB device not recognized" is shown on the PC after an upgrade of the receiver firmware, it is recommended to restart the receiver. Afterwards the USB connection will be functional again.
3. When disabling Wi-Fi on the client device without disconnecting the Wi-Fi connection first (e.g. unplugging a USB Wi-Fi adapter), the web interface may display the client as still connected for several minutes.
4. The editing of features (collected items with PinPoint-GIS Web) might not work properly when multiple features overlap in a very close position of the map.
5. The collection form for PinPoint-GIS Web might take a couple of seconds before it appears on the screen (this might vary depending on your internet connection). Please wait until the form is displayed after clicking on the Collect button.
6. It is not possible to upgrade over COM1 with RxUpgrade. The upgrade will start but will fail during the process.
7. It is not possible to upgrade the receiver using mobile Safari on iOS devices.
8. Upgrade over Cellular connection is not supported.
9. View selection of map services is not supported in PinPoint-GIS Web (they are always visible when loading a User map). However changing the basemap of a loaded user map containing a map service will cause the map service to disappear.

10. PinPoint-GIS Web might indicate that the user map is collectable while this is not the case.
11. Auto-populated GNSS fields in PinPoint-GIS Web will not show the whole accuracy for double values but when saved they will keep the full accuracy. Only when the values are edited, the accuracy might be dropped.
12. When a new battery is inserted, it may take a few seconds before the actual charge level is displayed.
13. The web server on the receiver has been tested with Chrome (version 61), Firefox (version 55) and Internet Explorer (version 11). If you experience any problems with your browser, please use a different client application.
14. When the cell connection is slow, the receiver may fail to load the NTRIP mount point table.
15. Data cannot be streamed through the Bluetooth port at a rate higher than 5Hz.
16. The NTRIP server connection is sometimes not reliable when connected to a caster running "Professional Ntrip Broadcaster" (up to v2.0.22).
17. UDP functionality does not work over Cellular interface.
18. The command `exeNMEAOnce` always returns one single sentence. For multi-line messages like GSV the command `setNMEAOutput` should be used.
19. Some cellular networks require the configuration of an APN even for 2G connections.
20. Lambert 72 heights at this moment are not fully compliant with the National Geographic Institute of Belgium (NGI). The current implementation of TAW heights can result in differences of a few millimetres depending on the location.
21. The generation rate of GBS and GRS nmea sentence is limited to 1Hz.
22. If the receiver is started with Galileo and BeiDou tracking disabled/not permitted (and NVRAM is clear), then empty GAGSV and BDGSV sentences are output.

## 3 Support

For further information or support, please consult the Septentrio support website (<http://www.septentrio.com/support>), or contact Septentrio Technical Support: [support@septentrio.com](mailto:support@septentrio.com).

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## 5 System Components and Versions

Firmware Package: 1.3.0 Applicable Product: Altus NR3 Receiver Platform: SSRC9 Release Date: 01 December 2017		version	Altus NR3-firmware-1.3.0-OS_failsafe.suf	Altus NR3-firmware-1.3.0-OS_bootloader.suf	Altus NR3-firmware-1.3.0-full.suf
Failsafe	4.0.0-gb0dc1df	Y			
Operating System bootloader	2.0.2-gf7139c1		Y		
Operating System kernel	2.3.4-gd705963				Y
Operating System root filesystem	4.0.0-gb0dc1df				Y
Control Firmware	1.3.0-r65415				Y
GNSS Firmware	4.3.1				Y
Antenna Information	2.7.2				Y