NovAtel Application Suite

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GET THE MOST OUT OF YOUR RECEIVERS

NovAtel Application Suite GNSS receiver management software is designed to work seamlessly with your OEM7 devices.

You can monitor the status of all your receivers during operations, including GNSS satellite tracking, positioning and even interference detection – all in one integrated software suite.

Whether you are integrating our GNSS receivers with your system, undertaking post-operation analysis, or monitoring real-time output from your receivers, NovAtel Application Suite lets you make the most of our industry-leading technology.

Features and benefits

- Manage and configure all devices
- Monitor real-time status and data output across multiple devices
- Replay and visualise logged data
- Local and remote access to devices
- Automatic application updates
- Easy-to-use with a workflow-driven design
- Access to contextual help across all applications

Supported receivers

All OEM7 receivers and enclosures

PC requirements

- 2 GHz dual-core processor
- 4 GB RAM
- 500 MB storage space
- 1280 x 1024 resolution display

Operating system requirements

- Windows 10/11 (64-bit)
- Ubuntu 20.04 + (64-bit)

Applications

Manage

Easily add, group and configure your receivers from a central location while monitoring the status of those that are connected.

GRIT Monitor

Leverages our GNSS Resilence and Integrity Technology (GRIT) RF interference detection firmware to show all data in a single dashboard view.

Playback

Open your logged data to replay it as if you were watching it in real-time, easily scrub through your data files and export subsets to create shorter files.

Convert

Powered by our Encode Decode Interface Engine (EDIE), load your recorded logs and convert single or multiple logs to the desired format.

Manage

CONFIGURE AND VIEW DEVICE STATUS

Our Manage application gives you complete control of all your connected receivers to easily configure and manage multiple devices at one time.

With Manage, you can add, group and connect devices in one central location to monitor signal interference and collect data. Quickly connect, jump and swap between your devices to oversee their collective health and status.

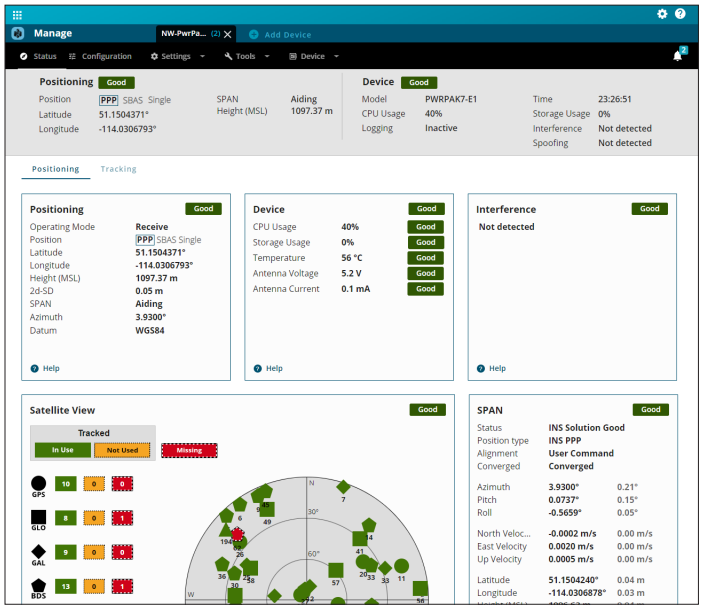
Depending on your goals, you can audit your data in real-time, or capture device outputs for quick analysis in our Playback app.

Features and benefits

- Seamlessly switch between multiple connected devices to compare or view data
- Key position and device information are always visible
- Traffic light indicators for device status
- Monitor output from multiple devices in real-time
- Connect locally over USB and serial, or remotely over WiFi or Ethernet

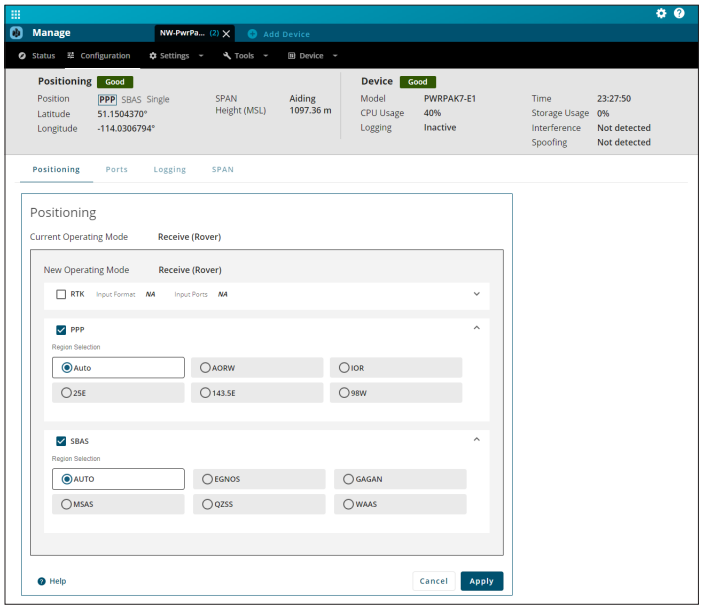
Status dashboard

Monitor receiver status including positioning, satellite tracking and L-Band corrections, as well as any additional firmware solutions and SPAN GNSS+INS.



Configuration dashboard

Configure multiple devices just as easily as one with quick download and upload of configurations.



GRIT Monitor

DETECT AND MITIGATE INTERFERENCE

Leveraging our GNSS Resilience and Integrity Technology (GRIT) interference detection firmware, GRIT Monitor provides a comprehensive understanding of your radio frequency (RF) environment and allows you to quickly and easily observe interference on OEM7 receivers.

With an industry-first dashboard of all relevant data in a single view, GRIT Monitor identifies interference signals, such as jamming or spoofing, and provides options for mitigation. This increases your situational awareness helping you make informed operational decisions to maintain robust positioning, navigation and timing.

Features and benefits

- Easily access all GRIT features including Interference Toolkit and Spoofing Detection
- Add digital filters to mitigate against interference with full GRIT functionality
- Quickly visualise how interference has impacted satellite signals by frequency and constellation
- Convenient and intuitive maps that show instances of interference
- Create points of interest on the map to show possible interference locations
- Automatically generate areas of interest
- View a history of events

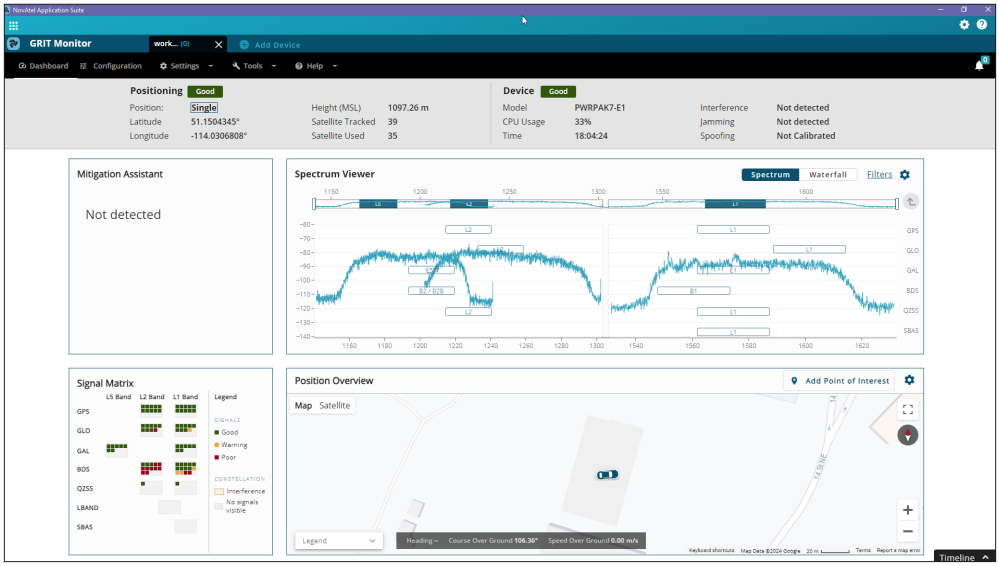
GRIT Monitor dashboard

Mitigation Assistant: Indicates whether interference is detected and provides options for mitigation.

Spectrum Viewer: Displays all GNSS bands and indicates interference on interactive spectrum and waterfall graphs.

Signal Matrix: Indicates signal quality and the impact of interference on all GNSS constellations and frequency bands.

Position Overview: Shows receiver positions and the locations of any interference sources in map or satellite views.



To learn more about the GRIT features available on OEM7 receivers, visit novatel.com/products/grit.

Playback

VIEW AND ANALYSE RECORDED EVENTS

Playback gives you flexible options for data analysis. Open your logged data and replay as if you were watching in real-time. Rather than working through full logs of data, you can export specific instances for more in-depth analysis.

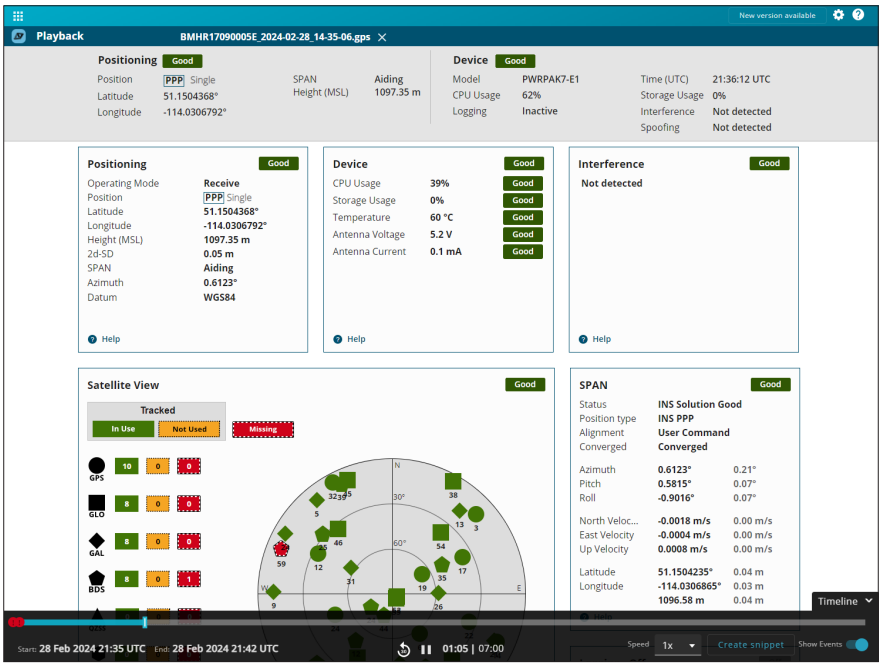
Identifying and analysing events from your logged data has never been easier. Our intuitive timeline gives an instant overview of your positioning solution and data output.

Quickly scrub through data, replay and review to better understand your positioning solution. Engage with your data using play, pause and fast-forward controls.

Watch in real-time, review at high-speed or jump to events of interest for fast data analysis. Export your full dataset or specific events for post-processing.

Features and benefits

- Quickly open and review your data
- Easy-to-use timeline controls
- Replay events at up to 60x speed
- Key data events logged and exported for in-depth analysis
- Intuitive and fast file cropping and saving



Convert

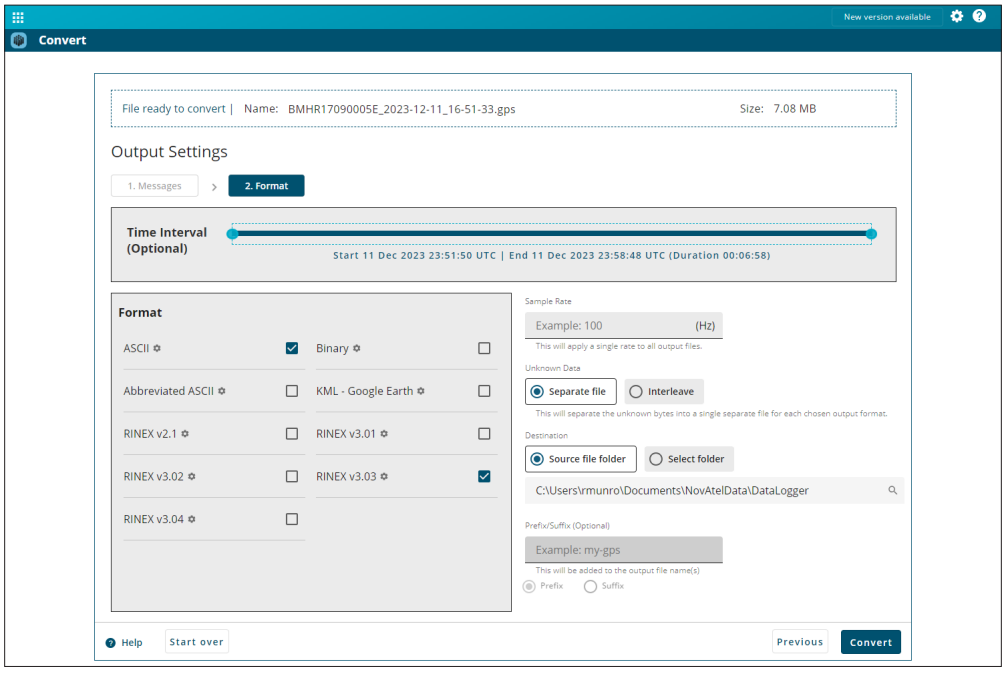
CONVERT LOGS TO OTHER FORMATS

Convert allows you to load your recorded logs and then convert them to the desired format. You can convert single or multiple logs at the same time by following the intuitive step-by-step process. Convert is powered by the Encode Decode Interface Engine (EDIE) from NovAtel ensuring each conversion is fast and reliable.

Convert allows you to view the contents of your loaded files before you convert them. The log content is displayed for you to review, confirm file log coverage, and customise exactly what you would like to send for conversion.

Features and benefits

- **Multiple output formats:** Choose multiple output formats and convert to all of them with a single action.
- **Conversion summary:** Following conversion, a summary page allows you to understand the status of the conversion and access your new files.
- **Command line interface:** You can also access all the features of our conversion engine from the command line.



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Hexagon is the global leader in digital reality solutions, combining sensor, software and autonomous technologies. We are putting data to work to boost efficiency, productivity, quality and safety across industrial, manufacturing, infrastructure, public sector, and mobility applications.

Our technologies are shaping production and people-related ecosystems to become increasingly connected and autonomous – ensuring a scalable, sustainable future.

NovAtel, part of Hexagon, is a global technology leader, pioneering end-to-end solutions for assured positioning for land, sea, and air. NovAtel designs, manufactures and sells high precision positioning technology developed for efficient and rapid integration. Its solutions are empowering intelligent positioning ecosystems in vital industries that depend on the ability to tackle the most complex challenges in the most demanding environments. Learn more at novatel.com.

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Version 1
D100860 April 2024