## .:Checkstream:.

- Ntrip is the primary standard for Network RTK data dissemination. Ntrip Casters play a critical role in real-time correction services. It is therefore of utmost importance that the status of the Ntrip Caster is continuously monitored.

- Alberding Checkstream helps you monitor the availability of Ntrip Mountpoints on one or more Casters. Moreover, it decodes the data streams and can detect format problems, missing message types and high data age.

- Checkstream provides actual status information in a colour-coded status table. The web interface is automatically reloaded at user-defined intervals. History data can be analysed on availability bar graphs.





## .:Alberding GmbH:.

Alberding GmbH develops and distributes system solutions in the field of satellite-based positioning. We build on more than 20 years of experience to provide high-accuracy GNSS systems and services for a variety of user applications.

For GNSS infrastructure operators we provide data management tools and a professional Ntrip Caster software with web interface.
Our reference station coordinate stability monitoring software is based on Precise Point Positioning technology.

Alberding GmbH has a complete solution for maritime and inland waterway DGNSS service providers. Our landslide monitoring and excavator machine positioning solutions are used in open-pit coal mines.

Use our experience to your advantage!

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# Alberding GmbH

## Alberding-QC



## Monitoring RTK/ Network RTK Services

- RTK Performance Monitoring
- GNSS Data Analysis
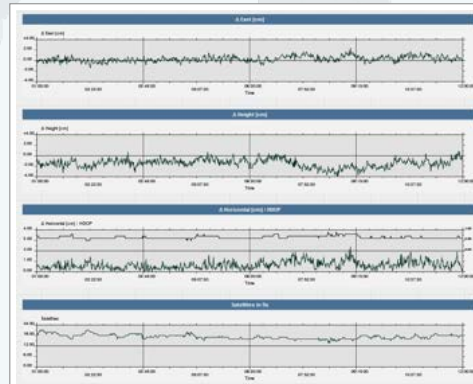- Ntrip Caster Monitoring
- Web Interface

## .:Service Quality Control:.

- Alberding-QC is a multi-purpose quality control tool designed for DGNSS and RTK service providers. Use this modular software suite to detect potential performance degradations, data format inconsistencies and service outages.

- Alberding-QC integrates three real-time monitoring modules into a single web interface: **RTK-Check**, **InspectRTCM** and **Checkstream**

- An automatic alert system guarantees that you will be the first to detect malfunctions and service performance problems and not your clients. Alberding-QC generates visual warnings and can be configured to send email and SMS alerts to system operators.

- The flexible software design allows user-specific adaptations.

- Customised performance reports can be exported in PDF format.



## .:RTK-Check:.

- RTK-Check is the RTK/Network RTK performance monitoring module. Positioning accuracy and time to fix integer ambiguities (TTFA) are checked with this software at regular intervals.

- RTK-Check can be used with dedicated monitor station receivers or in a central processing mode using raw data input and RTKLIB algorithms.

- The software connects to an Ntrip Caster and forwards the correction data from a selected mountpoint to the monitoring receiver or the internal RTK processing module. The position solution is accepted in NMEA standard format. Re-initialisation is forced by periodically interrupting data transmission.

- Performance results are summarised in a table and visualised on time series graphs. Statistics can be generated for user-defined time periods.



## .:InspectRTCM:.

- Alberding InspectRTCM is a GNSS data decoder and content analysis software. It converts binary input data into human readable text.

RTCM binary → **InspectRTCM** → RTCM ASCII

- Use InspectRTCM to analyse the contents of your real-time GNSS data streams and detect format problems, missing or corrupt message types and high data delay.

- InspectRTCM supports RTCM 2.x, RTCM 3.x, CMR, CMR+, RTCA and various receiver binary formats. VRS streams are supported by sending NMEA GGA messages.

- InspectRTCM reads input data from Ntrip mountpoints, TCP, UDP and serial ports. The software can also read log data from files.