Quality Control and Quality Management of Failproof High Accuracy GNSS Positioning Services

(3415)

Richard GEDON, Germany
AGENDA

Introduction
Space Weather
GNSS Satellites
Reference Station Network
Data Lines
Positioning Service Centre
Reliability of Postprocessed Data
Customers Equipment
Conclusion
AGENDA

Introduction
Space Weather
GNSS Satellites
Reference Station Network
Data Lines
Positioning Service Centre
Reliability of Postprocessing Data
Customers Equipment
Conclusion
AGENDA

Introduction
Space Weather
GNSS Satellites
Reference Station Network
Data Lines
Positioning Service Centre
Reliability of Postprocessind Data
Customers Equipment
Conclusion
Military use in the foreground (GPS,GLONASS)

Commercial use in the foreground (GALILEO)

Antenna Calibration

...
AGENDA

Introduction
Space Weather
GNSS Satellites
Reference Station Network
Data Lines
Positioning Service Centre
Reliability of Postprocessed Data
Customers Equipment
Conclusion

New:
HEPS via (Internet GPRS)
SAPOS® Munich

36 Reference Stations

Data communication transmits satellite raw data using F-NET (Finance Network) between SAPOS centers of the other states used "TESTA" (Trans-European Services for Telematics between Administrations)

Communication via GSM

Communication crossing the border to Austria and Switzerland uses the Internet

New: HEPS via Internet GPRS

Internet

Postprocessing-Users

German States

TH BW SN HE

Central Bureau
SAPOS
LGN Hannover

SAPOS® Data Flow Diagramm
Failproof data connections

- by wire (last mile?)
- by radio

Costs
Redundancy
existing computing centre
planned computing centre

Test Rover
24 hours
7 days a week
Results are published in the Internet
Coordinate Monitoring

- online
- 1 day
- 1 week

High accuracy ephemeris
Documentation of all activities in a data base

AGENDA
- Introduction
- Space Weather
- GNSS Satellites
- Reference Station Network
- Data Lines
- Positioning Service Center
- Reliability of Postprocessind Data
- Customers Equipment
- Conclusion
AGENDA

Introduction
Space Weather
GNSS Satellites
Reference Station Network
Data Lines
Positioning Service Centre
Reliability of Postprocessed Data
Customers Equipment
Conclusion
Customer Service

All customer informations are available at the service centre

- satellites
- DOP
- Position

---

Customer Service

customer information

- Newsletter (e.mail)
- Information (e-mail, Internet)
- Hotline
- roadshows

---
AGENDA

Introduction
Space Weather
GNSS Satellites
Reference Station Network
Data Lines
Positioning Service Centre
Reliability of Postprocessing Data
Customers Equipment
Conclusion
You are always welcome by SAPOS in Munich

http://sapos.bayern.de/
www.geodaten.bayern.de
www.sapos.de

Thank you for your kind attention