APOS – National Report Austria

EUPOS Council and Technical Meeting 2019, Budapest

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BEV – Federal Office of Metrology and Surveying
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APOS Multi GNSS – Network

37 Multi GNSS-Referencestations

- **36 BEV stations** & 1 station in cooperation with the Leopold-Franzens-University Innsbruck – LFUI (INBK)
- **New station** Neusiedl/See (NSDL)
- **Equipment:**
  - 2 x Alloy (INBK, NSDL)
  - 33 x Leica GR30
  - 3 x PolaRx5 (WIEN, GRAZ, VLKM)
APOS Real Time

✓ GALILEO officially since 28.5.2019

✓ 3D – Tropospheric-corrections

➢ Trimble TPP 4.1.3 (WinServer 2008.R2)

Station Innsbruck (Antennasplitting) without 3-D (NetR9)

with 3-D (Alloy)
APOS – Processing Center

Planned changes

- **Reorganization of the rawdata-distribution** for all APOS partners and our product „APOS RAW“ based on additional NTRIP-casters, **Decoupling the raw data streams** from the processing-SW

- **Optimization** of the data stream flow through reorganization of the client/server role assignment

- **System and maintenance simplification** through **server reduction**
Current detailed problems

- Trimble TPP 4.1.3:
  - wrong Dopplerdata in the RINEX-files > bugfix in patch TPP 4.3.2
  - Alloy & NetR9: no antenna listing (Type, serial number ...) in RTCM (1008, 1033)
    > any experiences?

- CORS - Septentrio PolaRx5 (5.3.0)
  - RTCM 1006: wrong ARP Heightcomponent (e.g. in configuration „Static“/„Cartesian1“)
    > any experiences?
APOS 2020 (Questions within the scope of the BEV 2025 strategy paper)

• Agriculture: new price model > customer evaluation > tech. realisation > costs

• Current user groups <> agriculture <> authorities <> future mass market?
  - Mass market trend: Multi GNSS for drones, lowcost, 5G, .... > broadcast solutions (e.g. PPP-SSR)?
  - Authorities: are waiting for GALILEO PRS > what role could APOS already play?

• In the case of Open Data (PSI): will the APOS IT infrastructure be sufficient?

• station maintenance of none GNSS - components: qwn <> external maintenance? Any experiences?
GNSS network reference system ... any EPSG code in Austria?

➢ NO

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Thank You for Your Attention!

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