

EUREF IP Pilot Project – Status March 2007

- Currently 48 contributors, 87 streams, roughly 600 registered clients, most of them not end-users
 - Progress in getting sitelogs
- EUREF-IP Real-time clocks available now through www.euref-ip.net/CLKK
 - Bernese SW becoming a real-time component enabling clock estimation, available probably beginning of next year
 - RTNET software, Leos Mervart, TU Prague & GPS Solutions
 - PPP accuracy using EUREF-IP clocks: +/- 10..15cm after 15..10min initialisation time, needs to be confirmed through using Bernese SW
 - Merging clock estimates with IGS Ultra Rapid orbits (IGU) for client's convenience
 - Current streaming format is SP3 for easy post-processing
 - Switch to RTCM format ASAP, pushing RTCM "State Space" WG
- RTCM SC104 set up two new Working Groups
 - Extending RTCM 3 to transport any observable that might be(come) available
 - "State Space", to extend RTCM 3
 - First dedicated to transport real-time orbits and clocks
 - Later: transport of ionosphere, troposphere etc. parameters
- NTRIP version 2.0 ready for implementation
 - Full HTTP compatibility
 - Optional UPD transport for server and client
 - GNU GPL software for NTRIP server and client
 - Interoperability tests
 - Documentation available mid if this year
 - Ready for voting end of this year
- IGS Real-Time Call for Participation
 - Respond through EUREF, offering access to
 - Real-time observation streams
 - Real-time clocks
 - High-rate RINEX
 - Software resources
 - Other resources, i.e. monitoring etc.
 - Respond through station operators
- From EUREF-IP Pilot Project to EUREF-IP Service
 - Alessandro:
 - Is the broadcaster allowed to disseminate VRS like data within EUREF IP or not? -> Why not?
 - Can he reconstruct RINEX out of the data received from the stations? -> No, BNC will do this.
 - Can the user choose to build RINEX out of streams, or does he need to download high-rate RINEX via FTP as usual? -> Building high-rate RINEX once is enough.
 - Replace the hourly files by 15min high-rate? -> No, at least not now.
 - EUREF will generate real-time clocks and orbits. Would it be conceivable to add tropo/iono grids? -> Needs a data format to do that.
 - How to proceed?
- AFREF: Sao Tome, Addis Abeba (Ethiopia), Giza (Egypt), Nairobi (Kenya)
- US Plate Boundary Observatory (PBO): Going online with approx. 300 stations

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Total: 87 Streams

