

TWSTFT activities at PTB

D. Piester

CCTF WG Meeting on TWSTFT – METAS, Bern-Wabern 2007

PTB's Time Dissemination Group

A. Bauch

J. Becker

D. Piester

T. Polewka

+

M. Rost (temporal)

E. Staliuniene (temporal)

+

A. Hoppmann (partly)

+

soon... T. Feldmann (PhD-student)

Operational TWSTFT

PTB01: Link to European and U.S. laboratories

Satellite: IS707

frequencies: Ku-band

modem: SATRE

data format: ITU-R TF.1153-2 (individual)

PTB02: Link to USNO

Satellite: military

frequencies: X-band

modem: SATRE

data format: averaged clock offset (free format)

PTB03: Link to Asia (NICT/KRISS)

Satellite: IS-4 (formerly PAS-4)

frequencies: Ku-band

modem: NICT

data format: ITU-R TF.1153-2 (individual)

Current TWSTFT Related Activities

Developing a Watchdog System

report operation failures and technical malfunctions
and alarm group members for maintenance

Inclusion of the two Galileo Precise Timing Facilities into the European TWSTFT network

Implementation of a SATRE modem for link to Asia

Implementation of a satellite simulator (from USNO) into the PTB01 TWSTFT-station for links to European and U.S. laboratories

Calibration Activities

Calibration of the TWSTFT links USNO – PTB

carried out by USNO with a portable X-band station

March 2007

European Calibration

TUG – PTB – BEV – TUG

October 2007

Calibration of the link NICT - PTB

Geodetic GPS receiver from NICT will be operated at PTB

October 2007