



International Committee on
Global Navigation Satellite Systems

**WORKING GROUP ON SYSTEMS, SIGNALS & SERVICES (WG-S)
and
WORKING GROUP ON REFERENCE FRAMES, TIMING AND APPLICATIONS
(WG-D)**

JOINT TIMING WORKSHOP

Friday, 14 June 2019

0900-1300 CEST

United Nations Vienna International Centre

C-Building, 7th floor, Room C5

Vienna, Austria

1. Opening Remarks

WORKSHOP CHAIRS: XIAOCHUN LU, JEFF AUERBACH, GERARD PETIT

2. Review Background and Previous Actions

WORKSHOP CHAIRS

3. Reports on GNSS System Times

a. GLONASS Time and GNSS Time Interoperability

RUSSIA

4. GNSS to GNSS System Time Offsets (G2GTOs)

a. Interoperability through accurate prediction of [GNSS time – UTC]

BIPM

b. Different ways of estimating the GGTO, and their impact on the position accuracy

ROYAL OBSERVATORY OF BELGIUM

5. Testing of Multi-GNSS Time Interoperability

a. Multi-GNSS Timing Offsets: XGTO and MGET

ESA

- b. The new results of GNSS Time Offsets Monitoring and the Opinion about MGET and xGTO

CHINA

6. Specific Proposals for Way Ahead

- a. Considerations on GNSS Timescale Offsets

IGS/BIPM

7. Discussion

ALL PARTICIPANTS

8. Review Potential Recommendations/Actions/Next Steps

WORKSHOP CHAIRS