REPORT of the CCTF Working Group on the International Atomic Time

Patrizia Tavella

17th CCTF 14 - 15 Sept 2006

Aim of TAI WG

- to examine the remarks and requirements expressed by the users of the service of TAI,
- to prepare guidelines for the improvement of the service of TAI
 - Organising a meeting of the laboratories contributing to TAI (VII meeting on Sept 12 13, 2006)
 - 2. Establishing temporary Study Groups for addressing specific topics
 - 3. Collaboration with the other CCTF WG for harmonising the different contributions to TAI

17th CCTF 14 - 15 Sept 2006

1. VII meeting of the laboratories contributing to TAI (Sept 12-13, 2006)



N. laboratories \longrightarrow 35

N. countries \longrightarrow 27

17th CCTF 14 - 15 Sept 2006

1. VII meeting of the laboratories contributing to TAI (Sept 12-13, 2006)

•Possible frequency drift of commercial Cs clock yields to EAL frequency drift needs of stable environmental conditions in the laboratory

•Increasing and promising use of GPS geodetic receiver for time transfer draft recommendation

•Evaluation of the uncertainty UTC-UTC(k)

correlation and comparison uncertainty small inside the labs calibration uncertainty often the most important (see other WG Rec: CGGTTS and MRA)

•Fluent and correct data communication to the BIPM of utmost importance additional effort for improvement

17th CCTF 14 - 15 Sept 2006

 Establishing temporary Study Groups for addressing specific topics
Two SGs formed in Aug 2005 for the evaluation of:

TAI WG report

• Use of GPS *All in View* technique in TAI, Chair: Judah Levine, NIST

TAI Link Optimization,
Chair: Demetrios Matsakis, USNO

The SGs will report to the CCTF

17th CCTF 14 - 15 Sept 2006

3. Collaboration with the other CCTF WG for harmonising the different contributions to TAI

All the other CCTF WGs invited and contributing

Also additional Groups contribution (IGS clock product, ITU SRG on leap second,...) Activity of the sub Group on "Algorithms"

17th CCTF 14 - 15 Sept 2006



I.N.RI.M. ISTITUTO NAZIONALE DI RICERCA METROLOGICA Torino (Italy)





Call for ideas

tutorials

invited speakers

Fifth International Symposium on Time Scale Algorithms

March 2008 at Real Observatorio de la Armada San Fernando, Spain

Organized by the CCTF sub-WG on Algorithms chaired by Patrizia Tavella INRIM, in collaboration with Felicitas Arias BIPM, Juan Palacio ROA, and Demetrios Matsakis USNO

17th CCTF 14 - 15 Sept 2006

Proposal for updating the membership and terms of reference of the CCTF Working Group on TAI (draft recommendation)