



ICG 6 WG-B Meeting

07 September 2011
Tokyo, Japan

07 September 2011

ICG-6 WG-B Meeting

- 1 -



WG-B Workplan

- Revised workplan adopted at ICG-6 with following actions:
 - **Action B1:** Examine the **problem of multi-path** and related **mitigation actions** affecting both GNSS systems and user receivers, for static and mobile receivers and **recommend any required system enhancements** or actions that may contribute to alleviate this problem.
 - **Action B2:** Examine the **extension** of GNSS service to **indoor applications** and **recommend any required system enhancements** or actions that may support such extension.

WG-B Workplan

- **Action B3:** Examine the problem of **user position integrity** and the related solutions (e.g. ground integrity, satellite autonomous integrity, user Receiver Autonomous Integrity Monitoring (RAIM)), and **recommend any required system enhancements** or actions that may contribute to meet the user requirements.
- **Action B4:** Monitor the **techniques proposed by application developers and external augmentation service providers** for enhancement of GNSS performance with a view to **recommend any required system enhancements** or actions that may support the realization of such techniques.

WG-B Workplan

- Action B5: Examine techniques for RF interference monitoring and detection:
 - Action B5.1: Examine techniques leading to the mitigation of the effects of RF interference in the GNSS user equipment.
 - Action B5.2: Examine technical possibilities to add special functionalities on existing or planned GNSS infrastructure to support the detection and location of RF interference in the GNSS bands.

Agenda

- Introduction to WG-B Meeting
S. Wallner, ESA
- Approval of the agenda
- Outcomes of the special meeting of WG-B during CSNC
X. Zhan, Shanghai Jiao Tong University
- Benefits of multi-constellation GNSS for maritime users
J. Klepsvik, Kongsberg Seatex, Norway
- Benefits of multi-constellation GNSS for transportation users
J. Li, China Transport Telecommunications & Information Center, China



Agenda

- Status of definition of dissemination of Emergency alerts through GNSS
S. Wallner, ESA
- One solution for a seamless positioning, IMES concept and compatibility with GNSS signals
S. KOGURE, JAXA, Japan
- Ionosphere modelling in Indian region for the Indian Satellite based Navigation system
A.S. Ganeshan, ISRO, India

Agenda

- GPS/QZSS Signal Authentication Concept
D. Mnandhar, The University of Tokyo, Japan
- Enabling a Fully Interoperable GNSS Space Service Volume
J. Miller, NASA, U.S.
- FAA GNSS Update
D. Lawrence, FAA, U.S.
- Proposal of new Recommendations
WG-B Co-Chairs
- Submission of new Recommendations
All

Recommendation 1

- Integrity via ARIAM

ICG is invited to encourage global and regional satellite navigation service providers and stakeholders interested in integrity to

- Include regional systems in the concepts for ARIAM
- Clarify the use of augmentation systems for ARIAM
- Encourage the further work on broadcast parameters to enable multi-constellation ARIAM
- Address certification related issues for ARIAM

Recommendation 2

- Satellite Navigation in Natural Disasters

ICG is invited to further discuss the use of satellite navigation in natural disasters.

Recommendation 3

- Workshop on New Message Broadcasts in New Signals

ICG is invited to organize a cross-working group workshop (system providers/users) to identify opportunities for new message broadcasts using existing or planned spare capacity in new signals (i.e. SBAS L5).

Recommendation 4

- Establishment of a sub-group on ‘Applications’ in WG-B

ICG is invited to take note that WG-B considers the establishment of a WG-B sub-group oriented on ‘Application ’. This sub-group is tasked to support the work identified under Action B4 of the Work Plan of WG-B, report its findings on a yearly basis to WG-B. In an initial period of 2 years this sub-group shall be co-chaired by China and the European Space Agency.

Recommendation 5

- Establishment of a sub-group on ‘Applications’ in WG-B

ICG is invited to take notice that WG-B subgroup on Applications considers the organization of a meeting in the margin of Munich Satellite Navigation Summit on 13 March 2012 (TBC) addressing user communities including at least LBS and mass market applications.