



*Japan/U.S. Proposal
Workshop on Spectrum
Protection and IDM
For ICG PF Consideration*

ICG-6 Planning Meeting
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Proposal

- ICG Terms of Reference work plan includes the means to:
- “establish, as mutually agreed and on an ad hoc basis, working groups to investigate specific areas of interest, cooperation and coordination.”
- This proposal sets forth the description of a potential workshop focused on radio frequency Interference Detection and Mitigation (IDM), for GNSS

Proposal

- Proposed Agenda has been developed
- Based on experience and concerns
- Includes regulatory, policy, operational and technical aspects
- Estimated two day workshop with another half-day to finalize
- Follow-up meetings or workshops may be discussed and agreed upon

Proposal

- Recommendations for attendees will be sought from ICG participants
- Invitees will be selected from around the world based on agenda and expertise needed
- Japan and U.S. are prepared to support as hosts
- If sufficient Provider's Forum interest, details to be provided in the coming months

Proposed Agenda

1. RNSS Spectrum Protection Overview
2. Sources of interference
3. Update from current Providers
4. Current and future information sharing, dissemination, collaboration and standardization
5. Case Studies
6. Workshop views and recommendations

RNSS Spectrum Protection

- Focus on existing RNSS spectrum management regime relevant to GNSS interference and spectrum protection
- Review of ITU provisions for GNSS spectrum protection
- Review domestic spectrum protection laws and regulations related to GNSS

Sources of Interference

- Examine types of interference sources affecting GNSS
 - Focus on detection and mitigation
- Unintentional emitters
 - Electronic devices operating at or near GNSS
- Intentional emitters
 - Non-malicious: Planned/coordinated events, testing
 - Malicious: Deliberate disruptions, purposeful transmission to disrupt GNSS
- Natural Disturbances

Update from Current Providers

- Allow each Provider Forum member opportunity to share current and proposed methods of addressing IDM
- Responsibilities of national /regional authorities
 - Identifying and/or detecting interference
 - Coordinating interference information
 - Identifying and locating interference source
 - Mitigating interference for benefit of users

Current and Future Information Sharing, Dissemination, Collaboration and Standardization

- Discuss framework for multi-GNSS IDM sharing, dissemination collaboration and standardization
 - Organizational information sharing
 - Current and future collaboration
 - Integration of natural/non-natural interference information
 - Consideration for use of established GNSS monitoring systems

Case Studies

- Provider Forum members cite case studies of relevant interference events and resolution
- Unintentional (i.e. VHF-TV antenna)
- Intentional (i.e. “Privacy Jammers”)
- Natural phenomenon (i.e. Ionospheric storm)
- Discussion of lessons learned

Workshop Views and Recommendations

- Provider Forum members will develop consensus list of agreed-upon views and recommendations for future actions resulting from discussions of workshop

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