

**Recommendation 10A.2.1 for Committee Decision****Prepared by:** WG-A Compatibility Sub-Group**Date of Submission:** 07/16/2015**Issue Title:** Campaign of protection of RNSS operations**Background/Brief Description of the Issue:**

By investigating the interference detection and monitoring for the protection GNSS, it was found that the accrual implementation of the protection measures of GNSS is becoming more important. For this purpose, it is essential to recognize the international regulations or guidelines such as ITU Radio Regulations and ITU-R Recommendations. However, it would be necessary to reflect these international Regulations/guidelines to each nation's domestic regulations/guideline, in order to enforce them in effective ways.

**Discussion/Analyses:**

In order to implement the measures for the protection of RNSS, it would be essential to completely understand both a regulatory and operational status of RNSS.

For this purpose, the followings knowledge would be required at least;

- Relevant provisions of the ITU Radio Regulations
- Relevant ITU-R Recommendations
- User's domestic/regional regulations concerning non-licensed emission limits including intentional radio emission limits and electromagnetic emission limits

**Recommendation of ICG WG-A:**

The ICG recommends that GNSS providers and GNSS user community member states promote the implementation of the protection measures of GNSS operations in their nations and/or regions as well as other parts of the world.

**Recommendation 10A.2 for ICG Decision**

**Prepared by:** Working Group A  
**Date of Submission:** 05 November 2015  
**Issue Title:** UN COPUOS Agenda Item on Spectrum Protection and IDM

**Background/Brief Description of the Issue:**

The ICG Working Group A has been discussing spectrum protection and interference detection and mitigation (IDM) for several years, and has collected information about this subject. However, the discussions and information collected have been limited to ICG members and participants. At the 2014 meeting of the United Committee on the Peaceful Uses of Outer Space (UN COPUOS) Science & Technology Subcommittee (STSC), the subject of GNSS interference detection and mitigation was raised as a topic of interest, specifically with regard to the prevalence of GNSS jammer devices. UN COPUOS has broad reach across UN countries, with [82] member states. In order to expand the discussion on this topic beyond the members of the ICG, and to further expand on what was previously discussed within the STSC, the ICG should reach out to UN COPUOS through the STSC on this topic

**Discussion/Analyses:**

The long term goal of this recommendation will be for the Science & Technology Subcommittee (STSC) or UN COPUOS to establish a multi-year agenda item focused on National Efforts to protect RNSS Spectrum, and pursue GNSS interference detection and mitigation in member states.

**Recommendation:**

Working Group A should prepare a presentation on its spectrum protection and IDM activities for the February 2016 session of the UN COPUOS STSC.

Under this agenda item, Member States will be asked to report:

- National RNSS Spectrum Allocations and consistency with ITU Allocations
- Regulations regarding Non-licensed emissions limits from RF emitters and non-emitters
- Planned or existing Laws and Regulations related to the manufacture, sale, export, import, purchase, ownership, and use of GNSS jammers
- Domestic efforts to detect and mitigate GNSS interference