

WG-S RECOMMENDATION #2
Recommendation 14S-2 for ICG Decision

Prepared by: WG-S in cooperation with WG-D

Date of Submission: December 12, 2019

Issue Title: Precise Point Positioning (PPP) Interoperability Task Force

Background/Brief Description of the Issue:

Precise Point Positioning (PPP) enables global wide-area centimeter to decimeter level accurate positioning by using precise GNSS satellite orbits, clocks and additional signal corrections to users. Many GNSS, RNSS and SBAS providers have plans to utilise their augmentation signals of different frequencies, e.g., L1, L5, E5b, E6, B1C, B2a and B2b, and correction formats to deliver a precise positioning service(s) based on the PPP technique. In addition, these System-Provided PPP services will also have different service level performance including service coverage, accuracy, convergence time etc.

Discussion/Analyses:

System providers agree on the importance of the topic of PPP interoperability and harmonization of key aspects of PPP services. This joint effort with WG's B and D should therefore concentrate on the objective of improving the PPP service interoperability.

Recommendation of Committee Action:

The ICG will establish a Task Force within the WG-S Interoperability and Service Standards Subgroup, with participation from WG's B and D. Australia, Japan and the EU will provide the co-chairs of the Task Force. The Task Force will draft a work plan focused on the objective of improving the interoperability of Precise Point Positioning (PPP) services

Specifically, the Task Force will:

- Coordinate with the ICAO Navigation Systems Panel and the SBAS Interoperability Working Group in the ongoing discussions and work of the Task Force.
- Concentrate on establishing the foundational documents, baseline definitions and assumptions to develop common terminology on basic parameters for PPP service provision/broadcast
- Encourage the publication and dissemination of PPP signal and system information

- Continue discussions with Service Providers (governmental and commercial) about the issues raised at the 1st PPP Workshop and follow-on issues identified by the Task Force
- Seek answers from Service Providers (governmental and commercial) to the questions formulated at the 1st PPP Workshop and follow-on issues identified by the Task Force (see attached questions)

Members Consensus Reached _____; **No Consensus Reached** _____

Chairperson Signature: _____ **Date:** _____