

Recommendation 19S-3 for Committee Decision

Prepared by: Working Group S (WG-S)

Date of Submission: 22 October 2025

Issue Title: LEO-PNT Compatibility and Interoperability Task Force

Background/Brief Description of the Issue:

With the emergence of several initiatives for the development of Low Earth Orbit Positioning, Navigation, and Timing (LEO-PNT) systems, and in light of the growing need for coordination with GNSS and among LEO-PNT providers, LEO-PNT Compatibility and Interoperability has become a key area of work of Working Group S and was formally included in its Work Plan at ICG-18. Since 2023, Working Group S has convened annual LEO-PNT workshops, bringing together many LEO-PNT initiatives. These workshops have served as a valuable forum for exchanging information between existing and emerging actors, and for discussing compatibility and interoperability both among LEO-PNT systems and with GNSS providers.

Discussion/Analyses:

During the LEO-PNT workshops, the importance of advancing compatibility and interoperability among LEO-PNT systems was clearly recognized. They were acknowledged to provide several benefits including collaboration opportunities, broader outreach and adoption, increased reliability and trust, and facilitating regulatory compliance and coordination. At the most recent workshop in June 2025, participants discussed the next steps, which included the production of a “LEO-PNT Systems Compatibility and Interoperability Document”. A preliminary Table of Contents was drafted.

Recommendation of Committee Action:

The Working Group on Systems, Signals and Services (WG-S) will establish a Task Force (TF) on LEO PNT.

The co-chairs of the Task Force will be provided by China, ESA/EU, and the U.S.

Specifically, the Task Force will:

- *Prepare technical presentations on topics related to LEO-PNT compatibility and Interoperability, to be coordinated with the “Compatibility and Spectrum” and “Interoperability and Service Standards” Subgroups as well as Working Group D.*
- *Organize annual LEO PNT Workshops to be held during the intersession time*
- *Complete the effort to develop a document within the WG-S (“LEO-PNT Systems Compatibility and Interoperability Document”), including:*
 - *capturing relevant inputs from the annual workshops, including from LEO PNT systems or initiatives outside ICG*

- *engaging in exchanges with other ICG WGs as needed (e.g. WG-D on time and reference frames), and,*
- *advancing the drafting process and coordinating with the ICG Secretariat for its endorsement.*

China and JAXA will lead this task, with input from all members of the Task Force

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

Chairperson Signature: _____ **Date:** _____