3.1.1Input paper: [[1]](#footnote-1) ENG17-3.1.2.1

Input paper for the following Committee(s): check as appropriate Purpose of paper:

**□** ARM X ENG **□** PAP **X** Input

**□** DTEC **□** VTS **□** Information

Agenda item [[2]](#footnote-2) n.n

Technical Domain / Task Number 2 3.1.1

Author(s) / Submitter(s) Task Group 3.1.1

Report on Task Group 3.1.1 Resilient PNT intersessional work

# Summary

This input paper reports the intersessional work carried out by Task Group 3.1.1 Resilient PNT after ENG 16 meeting, and the status of the draft Guideline on Resilient PNT. Task Group 3.1.1 believes that the Guideline is mature enough to be finalized during ENG 17 meeting and to be then sent to Council for approval.

## Related documents

ENG17-3.1.2.2 draft Guideline on Resilient PNT

# Background

Task Group 3.1.1 held 6 online intersessional meetings after ENG 16 to further develop the Resilient PNT Guideline. Most of the actual work was done offline. During meetings the group agreed on voluntary homework, which was reviewed together by the whole group during the following meetings.

The list of Task Group participants is the following:

|  |  |
| --- | --- |
| Name | Organisation |
| Michael Hoppe | Federal Waterways and Shipping Administration-Germany |
| Jaime Alvarez | [IALA](mailto:jaime.alvarez@iala-aism.org) |
| Stefan Gewies | German Aerospace Centre - Institute of Communications and Navigation |
| Alan Grant | Trinity House |
| Dou Lu | China Maritime Safety Administration |
| Hector Llorca Llorca | GMV Aerospace and Defence S.A.U |
| Marcos Lopez Cabeceira | GMV Aerospace and Defence S.A.U |
| Florin Mistrapau | GMV Aerospace and Defence S.A.U |
| André Chateauvert | Canadian Coast Guard |
| Javier Pancorbo | [Telespazio](mailto:javier.pancorbo@telespazio.com) |
| José Manuel Álvarez | ESSP-SAS |
| Emma Rieu-Stéphan | Cerema EMF |
| Pierre-Yves Martin | Cerema EMF |
| José Luis Martín Sánchez | [ESSP-SAS](mailto:jose-luis.martin@external.essp-sas.eu) |
| Caroline Huot | Canadian Coast Guard |

The Task Group used IALA File-Share as collaboration platform and the material related to online meetings can be found from the path: Committees\ENG\ENG16\WG3 – Radionavigation services\TG 3.1.1 -Resilient PNT.

# Discussion

During the intersessional work the structure of the draft Guideline was slightly modified, and new text was introduced throughout the document. The Task Group edited the document with track changes enabled, but some of the track changes were accepted already during the intersessional work in order to make the document more readable.

The latest version of draft Guideline on Resilient PNT is annexed to this document. The Task Group feels that the Guideline has reached a mature stage and can be finalized during the ENG 17 meeting. The remaining work includes:

* Accepting the track changes
* Discussing and solving the remaining comments
* Reviewing the final homework (finalization of table on GNSS vulnerabilities vs. mitigation measures)

# Action requested of the Committee

The Committee is requested to:

1. Note the outcome of Task Group 3.1.1 intersessional work
2. Participate in finalizing the draft Guideline on Resilient PNT during ENG 17
3. ........
4. Annex Heading 1
   1. Annex heading 2
      1. Annex heading 3
5. ........
6. Appendix heading 1
   1. Appendix heading 2
      1. Appendix heading 3

1. Input document number, to be assigned by the Committee Secretary [↑](#footnote-ref-1)
2. Leave open if uncertain [↑](#footnote-ref-2)