

IALA COUNCIL
4th Session



8 - 11 June 2026
HQ, France

10 – TECHNICAL ACTIVITIES

10.3 – DTEC

10.3.1 – DTEC6 summary report

Note by the Secretariat

1. INTRODUCTION

The 6th session of the Digital Technologies (DTEC) Committee was held from 23 March to 2 April 2026, chaired by Hideki Noguchi and vice-chaired by Dennis Khoo, with Alisa Nechyporuk serving as Secretary.

The physical meeting week took place from 23 to 27 March 2026 at IALA Headquarters, followed by an approval period and a virtual closing plenary on 2 April 2026. A total of 146 participants from 24 countries, 3 Sister Organisations and 6 observers attended DTEC6, including 25 first-time participants. The Committee considered 60 input papers and produced 17 output papers across three Working Groups.

2. SUMMARY OF THE WORK ITEMS

The Committee reviewed and updated its work programme for 2025–2027, achieving substantial progress across three Working Groups:

Working Group 1 – Digital Information Systems

- Finalised Revised Guideline G1191 on Maritime Service Registry (MSR) Technical Specification, including a Multi-Domain MCP use-case annex; submitted for Council approval (DTEC6-15.2.1).
- Advanced the feasibility study for an operational IALA MCP instance under IALA custodianship, with intersessional meetings and outputs to IMO NCSR (DTEC6-15.2.5) and Council (DTEC6-15.2.6).
- Reviewed the MCP-related procedural documents covering vetting, ID/MMS/MSR provider endorsements; consolidated within the G1191 framework.
- Identified Lua-script inclusion in S-100 Product Specifications as a security risk and issued formal Liaison Notes to IALA committees (DTEC6-15.2.2), IEC TC80 (15.2.3) and IHO (15.2.4).
- Deferred further revision of Guideline G1128 on the Specification of e-Navigation Technical Services pending stabilisation of SECOM Standard requirements.
- Called on IALA Members to develop a Maritime Trust System Guideline aligned with SECOM type-approval timelines.

Working Group 2 – Emerging Digital Technologies

- Progressed the rewrite of Guideline G1178 on AI/ML, agreeing a revised Table of Contents and establishing a Use Case Register; intersessional task group set for May 2026 with an AI session proposed for the IALA Conference 2027.

- Advanced the draft Guideline on Marine AtoN over IMT-2030 (6G) through chapter-by-chapter intersessional reviews; agreed to establish a new Working Group 4 from DTEC7.
- Finalised the IALA Vision on Digitalisation Discussion Paper (DTEC6-15.3.4) for forwarding to PAP/Council; closed the related task at DTEC6.
- Streamlined the draft Guideline on the Digitalisation of Waterways with VTS, ENG and ARM feedback; on track for editorial review at DTEC7.
- Finalised Revised Guideline G1153 (DTEC6-15.3.1) Template for the Review of Emerging Technologies and updated the Candidate Technology Tracker with six new technology entries.
- Finalised the new draft Guideline on Demonstration of Innovation (DTEC6-15.3.2) for Council approval.
- Progressed work on GNSS interference data exchange use cases, with a draft Guideline forwarded to DTEC7.

Working Group 3 – Digital Communication Systems

- Finalised the new Recommendation on VDE Payload Format Identifier (VPFI) (DTEC6-15.4.1) and Revised Guideline G1117 VDES Overview (DTEC6-15.4.2), required for publication before 1 July 2026 to support IEC 63514 CDV voting.
- Established a task group to address ITU-R M.1371-6 changes (Channel Management removal, Message 28, VDES capability indicator) within the A-126 / G1084 AIS documentation review.
- Progressed VDES R-Mode and VDES authentication work (G1158 revision, draft G1192 revision); supported NCSR13 R-Mode receiver performance standard development and ITU-R coordination.

3. OUTCOMES OF THE COMMITTEE

The following draft documents have been prepared for Council approval (agenda item 10.3):

1. C04-10.3.2 (DTEC6-15.4.1) New draft Recommendation on VDE Payload Format Identifier (VPFI).
2. C04-10.3.3 (DTEC6-15.3.2) New draft Guideline on Demonstration of Innovation.
3. C04-10.3.4 (DTEC6-15.2.1) Revised Guideline G1191 on Maritime Service Registry (MSR) Technical Specification.
4. C04-10.3.5 (DTEC6-15.3.1) Revised Guideline G1153 Template for the Review of Emerging Technologies.
5. C04-10.3.6 (DTEC6-15.4.2) Revised Guideline G1117 VDES Overview.

The following liaison notes and information papers have been forwarded for Council approval:

6. C04-10.1.2.2 (DTEC6-15.4.4) Workshop Proposal on VHF Data Exchange System (VDES) Satellite.
7. C04-12.1.1 (DTEC6-15.2.5) Information paper to IMO NCSR 13 on MCP Instance feasibility study.
8. C04-12.1.2 (DTEC6-15.4.3) Information paper to IMO NCSR 13 on the Results of the IALA Workshop on RNAV and RCOM.
9. C04-12.2.1 (DTEC6-15.2.3) Liaison Note to IEC TC80 regarding S-100 vulnerability.
10. C04-12.2.2 (DTEC6-15.4.5) Liaison Note to IEC TC80 on the IALA Recommendation on VPFI and Revised G1117.
11. C04-12.3.1 (DTEC6-15.2.4) Liaison Note to IHO regarding S-100 vulnerability.
12. C04-12.4.1 (DTEC6-15.4.6) Liaison Note to RTCM on the IALA Recommendation on VPFI.

4. THE COUNCIL IS REQUESTED TO

NOTE the information provided in this document.