



# IALA VTS COMMITTEE

## REPORT OF THE 58<sup>th</sup> SESSION OF THE IALA VESSEL TRAFFIC SERVICES (VTS) COMMITTEE

**19 September – 2 October 2025**

**Thomas Southall**

**2 October 2025**

Committee Secretary

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## Report of the 58<sup>th</sup> session of the IALA Vessel Traffic Services (VTS) Committee Executive Summary

The 58<sup>th</sup> session of the VTS Committee was held from 19 September – 2 October 2025, including the physical week at IALA HQ between 22 - 26 September, with Monica Sundklev as Chair and Trond Ski as acting Vice-Chair. The Secretary for the meeting was Thomas Southall.

136 participants from 34 countries, three Sister organisation and seven observers participated in VTS58. 17 participants attended for the first time.

The VTS Committee considered 66 input papers and produced 23 output papers, including working papers, from three Working Groups.

The meeting was carried out in accordance with the *Committee Arrangements*.

Key outputs completed included:

- VTS58-12.1.2 – Revised Recommendation R1012 on VTS Communications
- VTS58-12.2.3 – Service Specification Route Exchange v.1.1
- VTS58-12.2.4 – Service Design Route Exchange v.1.1
- VTS58-12.3.2 – Revised Model Course C0103-5 Revalidation Training
- VTS58-12.3.3 – Revised Guideline G1156 Recruitment, Training and Certification of VTS Personnel
- VTS58-12.3.4 – New Guideline on VTS English Communication Competency Testing

The following liaison notes and other documents were approved:

- VTS58-12.1.3 – Liaison Note to ARM on OREI
- VTS58-12.1.4 – Draft G1185 Ed1.0 Enhancing the Safety Around OREI (with track changes)
- VTS58-12.1.5 – Liaison Note to DTEC and ARM on Recommendation: Digitalisation of AtoN and Services for Vessels of Varying Levels of Autonomy
- VTS58-12.1.6 – Use Cases on VTS Digital Communications
- VTS58-12.2.1 – Liaison Note to ARM on the Use of Drones for AtoN Management
- VTS58-12.2.2 – Liaison Note to DTEC on Digitalisation Roadmap
- VTS58-12.2.5 – S-210 Related Proposals to Update the GI Registry
- VTS58-12.3.1 – Liaison Note to ARM on AIS Model Course

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## **Report of the 58<sup>th</sup> session of the IALA Vessel Traffic Services (VTS) Committee**

### **1. INTRODUCTION**

The 58th session of the VTS Committee was held from 19 September – 2 October 2025, including the physical week at IALA HQ between 22 - 26 September, with Monica Sundklev as Chair and Trond Ski as acting Vice-Chair. The Secretary for the meeting was Thomas Southall.

The session began with a virtual opening plenary on Friday 19 September and the physical week began on Monday 22 March and continued until Friday 26 March. An approval period was followed and the virtual closing plenary was held on Thursday 2 October.

136 participants from 34 countries, three Sister organisation and seven observers participated in VTS58. 17 participants attended for the first time.

#### **1.1 Welcome from the Secretary-General**

##### **1.1.1 Welcome from the Secretary-General**

The Secretary-General welcomed participants to VTS58, greeting both those present at Saint Germain-en-Laye and those joining remotely. He acknowledged the recent retirement of Dirk Eckhoff and expressed appreciation to Trond Ski for stepping in as Vice-Chair to support, the Chair, Monica Sundklev during the week.

He remarked on the breadth and depth of the papers submitted, observing that this session differed from previous ones due to the significant contributions from intersessional working groups. The Secretary-General commended the commitment shown between formal meetings, stating that such dedication was essential to the Committee's success.

Recognition was given to members from AMSA, KRISO, the Republic of Korea Coast Guard, FinTraffic and China MSA for their input.

He reported positively on IALA's progress, confirming that membership had reached a record 350, including 41 Member States, with further growth anticipated. The transition from the Association to the Organization had been completed, with all assets and liabilities transferred. Plans were in place for the old Council to formally dissolve the Association at an extraordinary meeting in November, a moment he described not as sombre, but as one of celebration for decades of achievement in maritime safety and sustainability.

The Secretary-General also shared news of a finalised agreement with the French Government, enabling the purchase of new headquarters premises nearby. While the signing date and delivery timeline remained uncertain, preparations were underway to host future Committee and Council meetings externally, potentially starting in September 2026.

He confirmed that the next Conference would take place in Mumbai, India, from 1 - 5 November 2027 and that the next Symposium was tentatively scheduled for January 2029. An invitation to host would be issued following the Council's December meeting.

Delegates were reminded of the upcoming Sustainability Workshop in Dublin from 6 - 10 October. The Secretary-General concluded by expressing his enthusiasm for the week ahead.

#### **1.2 Approval of the agenda**

The agenda was reviewed and approved (VTS58-1.2.1).

### 1.3 Apologies

No apologies were received. A list of participants who attended VTS58 can be found in Annex B.



### 1.4 Working Arrangements

The following statement on the IALA General Data Protection Policy was made by the Committee Secretary:

*IALA complies with the General Data Protection Regulations of the European Union. IALA will include a list of participants with their contact information in the report of this meeting. Any participant who wishes to remove their contact details from the participants list should advise the Committee Secretary as soon as possible.*

The following question was asked by the Committee Secretary:

*If anyone present has knowledge of any patents, including pending Patents, held either by themselves or by other organisations or individuals, the use of which may be required to practice or implement the content of IALA Documents being developed or worked on in this Committee to inform the IALA Secretariat.*

No patents were noted.

The Committee Secretary provided all participants with a briefing on the *Committee Working Arrangements* document and tools available to them. This brief included an overview of the VTS58 Action Plan that had been agreed by the VTS Committee Management Team (CMT) to be progressed during VTS58 through Task Groups (TG). Each task had a deadline for expressions of interest to participate to the specified Task Group Leader (TGL) by a certain date.

Task items that were worked on at VTS58 were displayed in the *Action Plan*, which can be found in the online tool for the work programme.

The deadline for submitting documents to the approval procedure was set to 26 September 2025 at 10:00 CEST.

## 2. REVIEW OF ACTION ITEMS FROM VTS56

The Committee Secretary confirmed that most Secretariat actions from VTS57 were completed and highlighted any ongoing actions (input paper VTS58-2.1.1).

### 3. REPORTS FROM OTHER BODIES

#### 3.1 IALA

##### 3.1.1 IALA Council

Minsu Jeon, Technical Director, provided a summary of key outcomes from the 2<sup>nd</sup> session of the Council, held from 9 – 13 June 2025 in Nice, France, alongside the UN Ocean Conference. This marked the first full Council meeting since the Organisation's transition to intergovernmental status.

The Council formally approved the revised Committee work programme.

One notable decision was the establishment of a drafting group tasked with preparing a policy on co-sponsoring documents with other intergovernmental organisations. This initiative aims to improve clarity and consistency in how external papers are shared and supported.

The Council also approved a wide range of technical documents submitted by the committees. Highlights included:

##### ARM Committee

- G1052, Edition 3.2 – Quality management for Aids to Navigation service delivery
- G1106, Edition 3.0 – Producing S-200 series Product Specifications
- S-201 Product Specification, Edition 2.0.0 – Approved as a major milestone in navigation data harmonisation

##### ENG Committee

- R1005, Edition 3.0 – Conserving and promoting heritage Marine Aids to Navigation
- G1050, Edition 1.2 – Management of transfer of surplus lighthouse property
- G1189, Edition 1.0 – Measurement of marine light performance
- G1190, Edition 1.0 – Harmonised Internet of Things protocol for visual Marine AtoN

##### VTs Committee

- G1111, Edition 2.1 – Functional and performance requirements for VTS systems and equipment
- G1111-1, Edition 1.1 – Core VTS system requirements
- G1027, Edition 2.0 – Simulation in VTS training

##### DTEC Committee

- G1128, Edition 1.7 – Specification of electronic Navigation Technical Services
- G1190, Edition 1.0 – Maritime Service Registry Technical Specification
- G1192, Edition 1.0 – VHF Data Exchange System authentication
- G1193, Edition 1.0 – VHF Data Exchange System signal measurement

In addition to approving these documents, the Council noted progress reports on future developments of the S-200 Product Specifications and associated technical services.

A further proposal from the ENG Committee was accepted regarding the Heritage Lighthouse of the Year award. Given the growing number of nominations, the revised process now limits Member States to one nomination per year. The period will run from 1 October to 30 September, with structured criteria covering heritage significance, conservation, public access and global promotion. Nominations will be reviewed by the ENG Working Group, then the ENG Committee, before final approval by Council.



Finally, the Council approved several liaison arrangements with external bodies, including:

- To IHO on S-125 Product Specification.
- To RTCM on Standard 10402.n.
- To IEC on S-421 schema and SECOM OpenAPI redistribution.
- Information paper to IMO MSC on VHF Data Exchange System for shore infrastructure.

### 3.1.2 IALA Policy Advisory Panel (PAP)

The Technical Director provided an update on PAP58, which was held from 9 - 12 September 2025 at Headquarters.

The Panel had agreed that the strategic vision and its underlying drivers and trends required revision to better reflect evolving operations and technology. A dedicated one day workshop would be held during PAP60 in February 2026 to review these elements.

Regarding the 2027 - 2030 work programme, the panel confirmed the timeline: committees would prepare draft contributions throughout 2026 and the Secretariat would consolidate these into a PAP review in early 2027.

On technical services and product specifications, the panel reviewed developments including guidance on S-200, S-201.

For the S-230 ASM product specification, the panel concluded that inter-committee leadership was required to advance the work. ARM and DTEC were scheduled to hold a joint inter-committee meeting during the current session to address this.

Finally, the Panel welcomed the further development of the Work Programme Management Tool, formerly known as the Online Task Register. This change was expected to improve delivery timelines and enhance transparency.

## 3.2 IMO

Minsu Jeon briefed the Committee on recent developments at the IMO, focusing on outcomes from NCSR12 and MSC110.

Starting with the NCSR12, held in May 2025, he noted that the session delivered a comprehensive set of outcomes directly relevant to the Committee's work. A key highlight was the advancement of the S-100 framework, including guidance on establishing global IP-based connectivity to enable real-time exchange of S-100 digital products between shore facilities and ships. The guidance was designed to be technology-neutral, with the MCP and the Second Protocol cited as practical examples. A correspondence group led by Australia had been formed to deliver a final report to NCSR13 in 2026.

On VDES matters, NCSR agreed a draft amendment to SOLAS introducing VDES as a mandatory carriage requirement.

The sub-committee also progressed communications-related amendments to SOLAS, which would require MSI broadcasters to use satellite providers recognised by IMO by the end of 2026. This measure aims to ensure global coverage for navigation warnings and safety messages.

Turning to the MSC, the Technical Director reported on MSC110, held from 18 - 27 June. One of the most significant outcomes was the approval of the draft SOLAS amendment introducing VDES as a carriage requirement alongside AIS. This marked a major milestone, with VDES adaptation expected to be finalised at MSC111 and the new requirements entering into force on 1 January 2028.

The Committee also made substantial progress on the MASS Code, finalising chapters on design, survey, operations and system management. The human element chapter remained under review, with an intersessional group tasked to address it specifically.

MSC endorsed the intersessional work on global IP-based connectivity for S-100 products, noted developments in cybersecurity and software management and introduced standardised procedures for updates and risk mitigation in navigation and communication systems.

Finally, MSC agreed to expand the Worldwide Radio Navigation System to include augmentation technologies such as SBAS and launched a new output on performance standards for R-mode, with completion targeted for 2027.

### 3.3 IHO

Minsu Jeon outlined recent developments in IALA's collaboration with the IHO, particularly in relation to the S-100 and S-200 frameworks. He structured the update around key areas of joint activity.

First, on product specification development, he highlighted S-125 on AtoN as positive. This specification is being developed jointly by the ARM Committee and IHO. In May, the Technical Director attended the IHO HSSC meeting in Stavanger, where he provided an update on IALA's progress. He noted that the IHO Secretariat was also seeking to participate in future IALA meetings, which was welcomed.

Second, regarding the GI Registry, concept proposals from the S-200 Testbed had been submitted to IHO and were all approved. In parallel, the ARM Committee had submitted additional proposals, which received minor feedback from IHO.

Third, in the area of training, IHO had kindly agreed to provide lecturers for selected IALA training courses. Finally, the Technical Director reported that a joint IHO–IALA workshop had been discussed by both the Council and PAP. A formal proposal for the workshop would be prepared by the ARM Committee and submitted for Council approval at the December meeting.

### 3.4 ITU

The Technical Director reported on recent collaboration between IALA and the ITU, specifically through ITU-R Working Party 5B, which met in Geneva from 29 April to 8 May 2025. Several topics of direct relevance to IALA were addressed during the session.

Work continued on the revision of Recommendation ITU-R M.2092 concerning VDES. Updates included technical clarifications based on prototype testing, new message definitions and the introduction of a simplified VDES concept tailored for smaller vessels.

Recommendation ITU-R M.1371 on AIS was also revised, with additions covering AMRD messages and updated reporting intervals. A proposal concerning cruise status parameters remained open and was linked to ongoing developments in the IMO MASS Code.

On maritime identities, Recommendation ITU-R M.585 was updated to include a new freeform identity scheme, supplemental manufacturer identifiers and an extended 12-character format. These changes aim to ensure sufficient identity capacity for AI-enabled space safety devices.

A major new initiative was the development of a report on VDES R-mode, examining the technical implications of introducing R-mode into the VDES framework. This work covers aspects at both the physical and link layers and includes efforts to integrate authentication mechanisms for resilient PNT.

IALA had been invited to review the draft revisions of Recommendations M.2092, M.1371 and M.585 and to contribute its expertise to the new R-mode report.

### 3.5 IEC

The Technical Director, Minsu Jeon, noted that while IEC matters remained a standing agenda item, there were no substantive updates to report at this time. He indicated that developments were expected in relation to active tester standards and further information would be provided to the Committee once available.

## 4. REPORT FROM RAPPORTEURS

### 4.1 MASS related to VTS

The appointed rapporteur for MASS related to VTS, Neil Trainor, was unable to participate during the online plenary.

However, Monica Sundklev, VTS Chair, gave an update on MASS in relation to VTS. She reminded the Committee that PAP had previously decided to pause work on the MASS guideline until the recommendation had been finalised and approved. As the work on this only began following VTS57, no progress had been made on the MASS documents since then.

The Chair highlighted ongoing work on a separate guideline concerning VTS interaction with a mixed traffic environment, conventional, automated and autonomous vessels. This guideline had initially been not approved at Transition Council 3 due to sequencing and the inclusion of MASS-related content. Efforts had since been made to remove those elements so the guideline could be finalised. The Chair emphasised the importance of publishing operational guidance for VTS interaction with all types of vessels within a VTS area.

Monica Sundklev confirmed that work on this guideline would continue during the current session and that any future development of a dedicated MASS guideline would build on the previously drafted material, which had been retained in the shared file repository for future use.

## 5. PRESENTATIONS

The presentations given at VTS58 can be found on the fileshare (login necessary). The presentation regarding “IWRAP and PAWSA in the San Francisco bay area” was postponed. The following presentations were given:

- |                                      |                         |
|--------------------------------------|-------------------------|
| • IALA VTS Questionnaire             | Minsu Jeon and KRISO    |
| • AI-based VTS Communication Testing | Professor Seunghee Choi |
| • IALA World Wide Academy Update     | Gerardine Delanoye, WWA |

## 6. WORK PROGRAMME MANAGEMENT

### 6.1 Work Programme 2025 – 2027, Task Plan, Task Register

The Chair informed that the Work Programme is a structured plan defining the tasks of the approved activities of the committees in line with the IALA Strategic Vision. The new Work Programme, approved by the 1st session of the Council on the 21 February 2025 in Singapore, now follows a three-year cycle for the 2025-2027 period.

The Task Plan was updated prior to the session by the VTS CMT and the Task Plan and Task Register were updated by the Chair and Vice-Chair using the online Task Tool.

The Chair emphasized that all tasks should be described more in detail in the Task Register, which will be done in the online IALA Task Tool. Also changes or updates to the Task Register should be inserted. Only TGLs, WG Chairs and Committee Chairs have access to make changes in the online tool, but everyone can read it and make extractions.

The current status of the VTS tasks were noted by the Committee and they can be found [here](#).

## 7. REVIEW OF INPUT PAPERS

The input papers for VTS58 consisted of new input papers as well as working papers from the previous session. The input paper list (VTS58-7.1.1) did not include the working papers from VTS57, as they were listed in a separate input document (VTS58-7.1.2). The Chair announced that there were very late input papers to be considered.

## 8. ESTABLISHING WORKING GROUPS

The Chair outlined the procedure to be followed by working groups, after which three working groups were established and their tasks outlined. The Working Group chairs and vice-chairs were introduced. Full lists of working group participants can be found in Annex F.

Working Group (WG)	Working Group Chair / Vice-Chair
WG1 – Operations	Trond Ski (Chair), Els Bogaert (Vice-Chair)
WG2 – Technology	Richard Aase (Chair), Robert Townsend (Vice-Chair)
WG3 – VTS Training	Stefaan Priem (Chair), Michele Landi (Vice-Chair)

## 9. WORKING GROUP 1 – OPERATIONS (WG1)

During the 58th session of the VTS Committee, WG1 - Operations progressed 9 tasks assigned under the 2025 - 2027 Work Programme and produced 6 output papers and 6 working papers for the Committee Secretary to progress.

The Chair and Vice-Chair of the Working Group thanked all participants, both in person and online for their hard work during the session.

Throughout the physical session of the week the WG focused on the following tasks:

- Develop guidance for establishing a compliance and enforcement framework by participating ships in a VTS area (Task no. 1.1.2)
- Develop guidance on delineating the VTS area (Task no. 1.1.4)
- Develop guidance to assist competent authorities for VTS establish an appropriate policy and regulatory framework to meet their obligations (Task no. 1.1.5)
- Develop guidance for digital route exchange within VTS operations (Task no. 1.2.1)
- Develop guidance on VTS digital communications (Task no. 1.3.1)
- Enhancing the safety and efficiency of navigation around offshore installations (Task no. 1.8.5)
- Consider relevant VTS documents to be revised/updated (Task no. 1.9.1)
- Review the VTS questionnaire and conduct a digital global survey (Task no. 1.9.3)
- Proceed with the “living document” on “Future VTS, including emerging technologies and Human Element (Task no. 1.9.4)

### 9.1 Task VTS-1.1.2 on Develop guidance for establishing a compliance and enforcement framework by participating ships in a VTS area

**Task group leader:** Jeanette Assev-Lindin

**Input papers:**

None.

**Comments:**

VT58 commenced work on Task 1.1.2, which focuses on developing guidance for the regulatory framework applicable to participating ships in VTS. Based on initial discussions WG1 considered that the scope of this guidance might not require a standalone guideline. In this regard the Committee identified the guidance being developed under task 1.1.5 as a possible “home” for an annex covering guidance on the establishment of a compliance and enforcement framework.

The initial discussions and considerations made by WG1 will be summed up in an input paper to VT59 including a draft annex based on the initial discussions. Given this, WG1 aims to finalize task 1.1.2 at VT59.

**Key outcomes include:**

1. WG1 agreed to develop guidance on a compliance and enforcement framework as an annex that might be included in the guidance developed under task 1.1.5.

**Output:**

None.

## 9.2 Task VTS-1.1.4 on Develop guidance on delineating the VTS area

**Task group leader:** Heidi Clevett

**Input papers:**

8.1.2	Introduction of the Korea Coast Guard VTS Area Establishment Procedure
8.1.3	Proposal on Incorporating Content Related to VTS Area Delineation into G1150
8.1.3.1	ANNEX A-G1150- Establishing, Planning and Implementing a VTS (Track Changes Version – China MSA)

**Comments:**

VT58 considered the input papers concerning the development of guidance on delineating the VTS area and recalled the agreement at VT57 to develop this guidance as additional text to guideline G1150, Establishing, Planning and Implementing a VTS. WG1 continued to progress the revision of G1150 taking into consideration the input papers from China MSA. This includes merging content from G1160 into G1150 with the aim to revoke G1160, as agreed at VT57. WG1 also agreed to further address the potential need to align G1150 with the guidance being developed under task 1.1.5.

The task is planned to be finalized at VT59 and WG1 thus agreed that an intersessional session would be beneficial to enable the development of a mature draft guideline as an input to VT59.

**Key outcomes include:**

1. WG1 recalled that VT57 agreed to develop guidance on delineating the VTS area as additional text to guideline G1150 and to merge the content of G1150 and G1160 with the aim to revoke G1160.
2. WG1 agreed to further address the potential need to align G1150 with the guidance being developed under task 1.1.5 at VT59.
3. WG1 also agreed that an intersessional session would be beneficial to enable the development of a mature draft guideline as an input to VT59.

**Output:**

None.

**Action items:**

*The Secretariat is requested to forward the WP draft guideline on Establishing, Planning and Implementing a VTS (VTS58-12.5.1.1) as a working paper to VTS59 for further development.*

*Committee participants are invited to join the intersessional group (Virtual meetings) working on the revision of guidance on establishing, planning and implementing a VTS, including guidance on delineating the VTS area and to express their interest to Heidi Clevett ([Heidi.clevett@mcga.gov.uk](mailto:Heidi.clevett@mcga.gov.uk)) by 30 October 2025, noting the dates and times of the intersessional meetings will be published on the IALA VTS Committee Dashboard.*

*The Intersessional Task Group Leader is requested to provide input on the intersessional work on tasks 1.1.4 to VTS59.*

**9.3 Task VTS-1.1.5 on Develop guidance to assist competent authorities for VTS establish an appropriate policy and regulatory framework to meet their obligations**

**Task group leaders:** Neil Trainor/Keeta Rowlands

**Input papers:**

8.1.4	Task 1.1.5 – Responsibilities of a CA
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**Comments:**

The review of the draft guideline to assist competent authorities achieve their responsibilities associated with the establishment of VTS in national law in accordance with IMO Resolution A.1158(32) Guidelines for Vessel Traffic Services and IALA Standards related to the establishment and operation of VTS was completed in principle.

The draft was prepared in a manner that it:

- Assumes the Contracting Government has fulfilled their responsibilities as described in IMO Resolution A.1158(32) Guidelines for Vessel Traffic Services. That is:
  - *establish a legal basis for VTS that gives effect to regulation V/12 of the Convention;*
  - *appoint and authorize a competent authority for VTS;*
  - *take appropriate action against a ship flying its flag that is reported not to have complied with the provisions of VTS; and*
  - *take account of future technical and other developments recognized by the Organization relating to VTS.*
- Recognizes that the national system or structure of laws regulations, rules and policies (the regulatory framework) should reflect how the responsibilities of the competent authority are implemented nationally.
- Recognizes that how these responsibilities are met may differ between countries, pending their legal basis and regulatory framework.

In addition:

- The WG1 suggested the title of the document be amended to ‘Establishing a Regulatory Framework for VTS – Responsibilities of a Competent Authority’ to better reflect the purpose of the document and also suggested that consideration be given to amending Paragraph 2 of Recommendation R0119 Establishment of a VTS to reflect the new Guideline upon future Council approval.

- Noting the work commenced at VTS58 with regards to Task 1.1.2 Develop guidance for establishing a compliance and enforcement framework by participating ships in a VTS area, the WG agreed that Task 1.1.5 should be carried over to VTS59 with a possible view to including the output from Task 1.1.2 as an Annex to the draft guideline on Establishing a Regulatory Framework for VTS – Responsibilities of a Competent Authority (refer to Section 9.1 above).

**Key outcomes include:**

1. The draft guideline on the responsibilities of the Competent Authority was prepared in a manner that assumes that the Contracting Government has fulfilled their responsibilities as described in IMO Resolution A.1158(32) Guidelines for Vessel Traffic Services.
2. WG1 proposed to title the new guideline “Establishing a Regulatory Framework for VTS – Responsibilities of a Competent Authority”.
3. WG1 will consider including the output from task 1.1.2 as an annex to the draft guideline on Establishing a Regulatory Framework for VTS - Responsibilities of a Competent Authority.

**Output:**

None.

*Action items:*

*The Secretariat is requested to forward the WP draft guideline on Establishing a Regulatory Framework for VTS - Responsibilities of a Competent Authority (VTS58-12.5.1.2) as a working paper to VTS59 for further development.*

*Committee participants are invited to review WP draft guideline on Establishing a Regulatory Framework for VTS - Responsibilities of a Competent Authority (VTS58-12.5.1.2) and provide comments and remarks as input to VTS59.*

#### 9.4 Task VTS-1.2.1 on Develop guidance for digital route exchange within VTS operations

**Task group leader:** Remi Hoeve

**Input papers:** None

**Comments:**

VTS58 commenced the work on task 1.2.1 by developing a common understanding of the scope of the task. WG1 further progressed the task by updating the description in the task register.

**Output:**

None.

#### 9.5 Task VTS-1.3.1 on Develop guidance on VTS digital communications

**Task group leader:** Remi Hoeve

**Input papers:**

7.2.4	Liaison note to VTS on Digitalisation of Waterways (DTEC4-15.3.6)
7.2.8	Report of ARM MRN task group
8.3.1	Proposal on the Draft Guideline on VTS Digital Communications
8.3.2	Intersessional meeting Malmö 1 and 2 July 2025 TG1.3.1

**Comments:**



#### *7.2.4 Liaison note to VTS on Digitalisation of Waterways (DTEC4-15.3.6)*

WG1 noted with appreciation the invitation in liaison note (VTS58-7.2.4) on “Digitalization of Waterways” from DTEC to participate in an inter-committee drafting meeting on 6<sup>th</sup> November 2025, 09:00 to 10:30 UTC. The invitation will be included as an action item below.

#### *7.2.8 Report of ARM MRN task group*

The working group further noted report (VTS58-7.2.8) on the MRN Task Group and recognized that development of the MRN’s is an important factor to make VTS Digital Communication possible in the future.

#### *8.3.1 Proposal on the Draft Guideline on VTS Digital Communications and*

#### *8.3.2 Intersessional meeting Malmö 1 and 2 July 2025 TG1.3.1*

WG1 discussed input paper VTS58-8.3.1 from China MSA, “Proposal on the Draft Guideline on VTS Digital Communication”. Most of the proposals in the paper were incorporated into the draft guideline.

The report of the intersessional meeting in Malmö on 1 and 2 July (VTS58-8.3.2) was discussed and the work done on the use cases and the guideline were agreed and incorporated into the draft document.

WG1 progressed the work on the draft guideline on VTS digital communications (VTS57-12.5.1.2) with the following actions:

- Amendments of Input Paper VTS58-8.3.1 were incorporated.
- The inputs from the intersessional Meeting in Malmö (VTS58-8.3.2) were incorporated.
- The figures in the guideline were amended and new clarifying figures were added to the VTS functions, services and the typical sequence of digital data communication from an operational perspective.
- Descriptions of the operational VTS functions were developed.
- The draft guideline was completely reviewed.

The draft Guideline was sent for approval but was withdrawn as there were comments on some expressions that needed to be further clarified. The document will be forwarded to VTS59 as a working paper for further work and it is expected that the work will then be finalized to send to Council.

The VTS digital services are describes in use cases in the Annex of the Guideline. These use cases are under construction and rapidly evolving. WG1 thus agreed to take the Annex with use cases apart from the Guideline and bring the uses cases as a “living document” on the IALA website under “Topical Matters”. This so that WG1 and WG2 can continue to amend the existing use cases and develop new ones.

WG1 added the use cases which were produced during the intersessional meeting in Malmö to the Annex (WP VTS57- 12.5.1.3) and decided to split the document in two parts; finalized use cases are gathered in a document which will be published on the IALA website and the use cases which are under construction will be gathered in a Working Paper which will be forwarded to next VTS Committee session. Proposals for new use cases can be sent as Input Papers to the VTS Committee for discussion.

#### *Updating the Recommendation R1012 on VTS Communication*

The Recommendation R1012 on VTS Communication was updated to reflect the draft new Guideline on VTS English Communication Competency Testing, developed by WG3.

#### **Key outcomes include:**

1. The overarching Recommendation on VTS Communication was revised to recognize a new guideline and will be forwarded to Council for approval.
2. Finalized use cases will be forwarded to the Secretariat to be published on the IALA web site.
3. Use cases under development will be forwarded to the next session of the VTS Committee for further development.



## Output:

- (1) VTS58-12.1.2 Revised Recommendation R1012 on VTS Communication
- (2) VTS58-12.1.6 Use Cases on VTS Digital Communication

## Action items:

*The Secretariat is requested to forward revised overarching Recommendation R1012 on VTS Communication (VTS58-12.1.2) to Council for approval.*

*The Secretariat is further requested to publish the Use Cases on VTS Digital Communication (VTS58-12.1.6) on the IALA website under Topical Matters.*

*The Secretariat is also requested to forward WP draft Use Cases on VTS Digital Communication (VTS58-12.5.1.3) and WP New Guideline on VTS Digital Communication (VTS58-12.5.1.5) as working papers to VTS59 for further development.*

*Committee participants are invited to review WP draft Use Cases on VTS Digital Communication (VTS58-12.5.1.3) and provide comments and remarks as input to VTS59.*

*Committee participants are further invited to note the invitation in Liaison Note (VTS58-7.2.4) from DTEC to participate in an inter-committee drafting meeting on 6 November 2025 at 09.00 UTC regarding the “Digitalization of Waterways”.*

## 9.6 Task VTS 1.8.5 on Enhancing the safety and efficiency of navigation around offshore installations

**Task group leaders:** Trond Ski/Els Bogaert

## Input papers:

7.2.2	LN from ARM to VTS on G1185 OREI (ARM20-11.2.9)
7.2.2.1	G1185 Ed1.0 Enhancing the safety around OREI post ARM20 (ARM20-11.2.9.1)
8.7.1	Proposal on revision of G1185
8.7.1.1	Task register proposal 2028-2030(OREI)
8.7.1.2	ANNEX G1185 Ed1.0 Enhancing the safety around OREI post ARM20 (ARM20-11.2.9.1)(revision)

## Comments:

The Task Group reviewed the draft Guideline G1185 (VTS58-7.2.2) in cooperation with a representative from the ARM Committee, Trevor Harris. Furthermore, the Task Group reviewed input papers from China MSA regarding the draft Guideline from ARM (VTS58-8.7.1, VTS58-8.7.1.1, VTS58-8.7.2).

Considerations were made on how the draft guideline could best address relevant authorities and stakeholders in general. Furthermore, the Task Group agreed to propose to move the section on VTS to be a stand-alone section. In this regard the Group further agreed to propose to list and structure the mitigation measures sub-section and the navigational safety section according to the regulations in SOLAS chapter V.

The Task Group also agreed to propose to include reference to Guideline G1070 *VTS role in managing restricted or limited access areas*.

Furthermore, VTS58 agreed together with a representative from ARM that the current RO139 Marking of Man Made Structures, might not be the appropriate Recommendation for this Guideline. In this regard, The VTS

Committee considered that it would be more appropriate for the Guideline to sit under Recommendation R1010 Marine Spatial Planning.

The VTS Committee discovered that IMO had published several documents on offshore installations but due to time constraint these could not be fully considered. The VTS Committee will therefore try to send representatives to ARM21 in order to help finalizing the task.

**Key outcomes include:**

1. VTS58 noted the invitation from ARM (VTS58-7.2.2) to provide feedback to ARM21 on the revised Guideline G1185 Enhancing the safety and efficiency of navigation around OREI (VTS58-7.2.2.1).
2. The VTS Committee provided feedback to ARM on several subjects, including how the draft guideline best could address relevant authorities and stakeholders in general.
3. Furthermore, the VTS Committee agreed to propose to move the section on VTS to be a stand-alone section.
4. VTS58 also advised ARM to consider whether it would be more appropriate for Guideline G1185 to sit under Recommendation R1010 Marine Spatial Planning then under the current Recommendation RO139 Marking of Man Made Structures.

**Output:**

- (1) VTS58-12.1.3 LN to ARM on OREI
- (2) VTS58-12.1.4 Draft G1185 Ed1.0 Enhancing the safety around OREI with track changes

**Action item:**

*The Secretariat is requested to forward Liaison Note on OREI (VTS58-12.1.3) and the accompanying draft revised guideline G1185 on Enhancing the safety around OREI (VTS58-12.1.4) to ARM for their consideration.*

**9.7 Task VTS 1.9.1 on Consider relevant VTS documents to be revised/updated**

**Task group leaders:** Trond Ski/Els Bogaert/Dorte Hansen

**Input papers:**

7.2.5	Proposal for new task revision of G1115 prepare for an IMSAS on VTS
7.2.5.1	ANNEX A IALA Task Register
7.2.5.2	ANNEX B content of the revised draft of the Framework and Procedures for IMSAS
7.2.7	Report of near misses and accidents related to machinery failure of vessels in VTS area

**Comments:**

**VTS58-7.2.5, 7.2.5.1 and 7.2.5.2 Proposal for new task revision of G1115 prepare for an IMSAS on VTS**

VTS58 considered input paper 7.2.5, 7.2.5.1 and 7.2.5.2 from China MSA regarding a proposal to revise guideline G1115 on preparing for an IMSAS audit on VTS. The Committee acknowledged the need to revise this guideline due to the upcoming IMO revision of the Framework and Procedures for IMSAS. The Committee would thus like to thank China MSA for addressing the need to revise G1115. The Committee further noted with appreciation the intention of China MSA to prepare and submit a revised version of G1115 to a future session of the Committee, covering the key amendments necessary to align the guideline with the IMO revision.

**VTS58-7.2.7 Report of near misses and accidents related to machinery failure of vessels in VTS area**

Furthermore, the Committee considered paper 7.2.7 regarding a report of near misses and accidents related to machinery failure of vessels in VTS areas. The Committee expressed its appreciation to China MSA for sharing this report. The report provides information on vessel machinery failure in some of the busiest VTS areas in China over the past three years. Due to the large number of ship movements, the statistics provided is valuable for VTS operations world-wide. While the number of reported incidents appears to be low, the severity of their consequences can be significant. Members are thus encouraged to take the statistics into consideration when reviewing their operations and training.

#### VTS57-8.7.1 Draft Guideline on VTS interaction with conventional, automated and autonomous ships

VTS57 agreed to progress the review of guideline G1089 on Provision of a VTS. The Committee thus continued the work with Guideline G1089, based on the initial work conducted during VTS57. The review will be further progressed at an intersessional meeting and furthermore at VTS59.

#### VTS56-8.7.1 Proposal for the revision of guidelines related natural disaster

VTS56 considered input paper VTS56-8.7.1 from Japan Coast Guard on Proposal for the revision of guidelines related to natural disaster with the aim to amend Guideline G1141 on Operational Procedures for Delivering VTS, if deemed necessary. This work was put on hold for VTS58 and will be progressed at VTS59.

#### **Key outcome includes:**

1. The Committee noted with appreciation the intention of China MSA to prepare and submit a revised version of Guideline G1115 to a future session of the Committee, covering the key amendments necessary to align the guideline with an upcoming IMO revision of the Framework and Procedures for IMSAS.
2. The Committee acknowledged the value of input paper 7.2.7 on near misses and accidents related to machinery failure for VTS operations world-wide. The severity of the consequences of such accidents can be significant and members are thus encouraged to take the statistics into consideration when reviewing their operations and training.
3. The Committee will further progress the review of guideline G1089 on Provision of a VTS through an intersessional meeting based on input paper VTS57-8.7.1 on the draft Guideline on VTS interaction with conventional, automated and autonomous ships.
4. The revision of Guideline G1141 Operational Procedures for Delivering VTS based on input paper VTS56-8.7.1 from Japan Coast Guard on revision of guidelines related to natural disaster will begin at VTS59.

#### **Output:**

None.

#### **Action item:**

*The Secretariat is requested to forward WP revised guideline G1141 on Operational Procedures for Delivering VTS (VTS58-12.5.1.4) and WP revised guideline G1089 on Provision of a VTS (VTS58-12.5.1.5) as working papers to VTS59 for further development.*

*Committee participants are invited to join the intersessional group (virtual meetings) working on the review of Guideline G1089 on Provision of a VTS. Interested participants are requested to express their interest to Dorte Olbæk Hansen ([3e-soe-st103@mil.dk](mailto:3e-soe-st103@mil.dk)) by 15<sup>th</sup> of October 2025. Dates and times of the intersessional meetings will be published on the IALA VTS Committee Dashboard.*

*The Intersessional Task Group Leader is requested to provide input on the intersessional work on Guideline G1089 to VTS59.*

## **9.8 Task VTS 1.9.3 on Review the VTS questionnaire and conduct a digital global survey**

**Task group leaders:** Trond Ski/Els Bogaert

**Input papers:**

None.

**Comments:**

At VTS54 the Secretariat invited the VTS Committee to revise the VTS Questionnaire with the aim of conducting a digital global survey. The last global survey was conducted in 2016, when the now revoked IMO Resolution A.857(20) was in force. The questionnaire thus needed an update to be aligned with the current IMO Resolution A.1158(32).

The new VTS questionnaire leverage digital tools, transforming the existing format into a digital version. The structure of the questionnaire has been discussed and agreed upon, consisting of four levels of contributors. The purpose of the questionnaire is to collect the information required to build this structure.

The establishment of the structure depends upon Member States appointing a national coordinator (single point of contact) responsible for the input of information into the VTS questionnaire.

**Key outcomes include:**

1. VTS58 acknowledged that the structure of the new VTS questionnaire depends upon Member States appointing a national coordinator (single point of contact), responsible for the input of information into the questionnaire.

**Output:**

None.

*Action item:*

*Member States are encouraged to appoint a national coordinator (a single point of contact) responsible for the input of information into the VTS questionnaire and provide the contact information of this coordinator to the Secretariat by e-mailing Minsu Jeon ([mje@iala.int](mailto:mje@iala.int)) by 23 October 2025.*

**9.9 Task 1.9.4 Proceed with the "living document" on "Future VTS", including emerging technologies and Human Element.**

**Task group leaders:** Neil Trainor

**Input papers:**

7.2.6	Proposal on Adding an Intelligent Management Information System to the Future VTS discussion paper
7.2.6.1	ANNEX A Intelligent management information system (IMIS)

**Comments:**

The Committee reviewed the input papers from China MSA regarding “Intelligent Management Information System” (IMIS), VTS58-7.2.6 and VTS58-7.2.6 with regards to including this as an emerging trend, technology and practice in the Future VTS Discussion Paper.

It was noted that in the future development of VTS, the applications of technologies such as voiceprint recognition, locating ships by sound recognition, ship verification, intelligent data and information interaction can effectively enhance the efficiency of VTS, relieve the work pressure on VTS personnel and promote the intelligent development of VTS.

IMIS is a tool that may allow for integrating functions such as those above. Its functions may:

- Support the daily decision-making and data management of VTS personnel.
- Serve as a key hub for information exchange and traffic management.
- Provide a foundation for digital communication, MCP, interaction between VTS and various levels of MASS and VTS upgrade and iteration by computing power, algorithms and data.
- Provide comprehensive and multi-dimensional services for the functions and goals realization of the current and future VTS.

**Key outcomes include:**

1. VTS58 updated the discussion paper on Future VTS based on the input from China MSA on the Intelligent Management Information System.

**Output:**

None.

*Action item:*

*The Secretariat is requested to forward WP updated Discussion Paper on Future VTS (VTS58-12.5.1.6) as a working paper to VTS59 for further development.*

**9.10 Input papers not assigned to a task group**

**Input papers:**

7.2.9	Cover note - DanPilot's Remote Pilotage initiative
7.2.9.1	DanPilot - Remote Pilotage initiative correspondance
7.2.9.2	IMPA comments on Danpilot's Remote Pilotage Initiative
8.1.1	LN to all Comittees Draft Recommendation on Digitalization of AtoN
8.1.1.1	Draft Rec Digitalization of AtoN and Services for Vessels of Varying Levels of Autonomy

**Comments:**

VTS58-7.2.9, 7.2.9.1 and 7.2.9.2 DanPilot's Remote Pilotage initiative

VTS58 considered input papers 7.2.9 and 7.2.9.1 on the DanPilot's Remote Pilotage initiative and received an introduction from IMPA on their comments on this initiative as outlined in input paper 7.2.9.2.

IMPA highlighted that DanPilot's initiative is situation- and circumstance-specific, and that there is no consensus among pilots organisations worldwide on the safety and effectiveness of remote pilotage. IMPA invited the Committee to note that it is defining technology-agnostic functional requirements for remote pilotage, including for ship-shore connectivity and communication. These functional requirements will be addressed in a future request to manufacturers and system integrators for proposals for remote pilotage solutions that could be trialled as part of the International Study on Remote Pilotage being led by IMPA.

The Committee and IMPA mutually agreed that such functional requirements may benefit from IMPA and IALA developing consequential technical recommendations and guidelines within their respective areas of expertise, sharing technical expertise when deemed necessary, following the cooperative agreement between IMPA and IALA.

VTS58-8.1.1 and 8.1.1.1 Draft Recommendation on Digitalization of AtoN

VTS58 considered input papers 8.1.1 and 8.1.1.1 on the Digitalization of Marine Aids to Navigation and Services for Vessels of Varying Levels of Autonomy.

The VTS Committee agreed on the following remarks:

- The draft recommendation recognizes the IALA Guideline on VTS interaction with a mix of conventional, automated and autonomous ships. The VTS Committee would like to inform the ARM Committee that this guideline was not approved by Council and that the VTS Committee has noted the agreement at PAP to pause work on MASS-related documents until an IALA recommendation on MASS is finalized and approved. Due to this, the VTS Committee would invite the ARM Committee to delete the text in the draft recommendation related to the guideline on VTS interaction.
- Under the section “RECOMMENDS” there seems to be a need for an editorial amendment. This section should be amended to include “....competent authorities for VTS and AtoN and.....”.
- Furthermore, under the section “RECOMMENDS”, the first bullet point would provide a stronger recommendation using the word “consider” rather than the word “review”.

#### Output:

- (1) VTS58-12.1.5 Liaison Note to DTEC and ARM on draft Recommendation on digitalization of Marine Aids to Navigation

#### Action item:

*The Secretariat is requested to forward Liaison Note on draft Recommendation on digitalization of Marine Aids to Navigation (VTS58-12.1.5) to DTEC and ARM for their consideration.*

### 9.11 Review of the Task Register

#### Comments:

The Task Register was updated, noting that it is a living document on the website and will be reviewed at each meeting.

## 10. WORKING GROUP 2 – TECHNOLOGY (WG2)

During the 58<sup>th</sup> session of the VTS Committee, WG2 – Technology worked on several tasks regarding digitalisation and on assigned task 2.8.2.

During the course of the session, Sirpa Kannos and Juho Pitkänen provided a presentation on the MaDaMe Project S-212 TCS to the WG and a peer review of the key findings was conducted.

The Chair Richard Aase and Vice-Chair Robert Townsend of the Working Group thanked all 37 participants, both in person and online for their hard work during the session.

Throughout the physical session of the week the WG focused on the following tasks:

- Review and update:
  - Task 2.8.2 Review and update Recommendation R0145 on the Inter-VTS Exchange Format (IVEF) Service
- Develop:
  - Task 2.5.2 Develop technical service description for VTS
  - Task 2.8.1 Develop a Product Specification S-212 for VTS on digital information
- Contribute to:

- Task 2.8.6 - VTS58-9.4.1 and VTS58-9.4.1.1 Liaison note to VTS on use of Drones for Aids to Navigation inspection maintenance and draft Guideline
- VTS58-7.2.3 Liaison Note on IALA digitalisation discussion paper

#### 10.1 Task VTS 2.5.2 Develop technical service description for VTS and Task 2.8.1 Develop a Product Specification S-212 for VTS on digital information

**Task group leader:** Juho Pitkanen / Wim Smets

##### Input papers:

9.1.1	Proposals on the "Service Specification for VTS-Vessel Route Exchange Edition 1.0"
9.1.2	Proposal for new subtask under Task 2.5.2 on Service Specification for VTS Information Service
9.1.2.1	ANNEX A - Draft Service Specification for VTS Information service 0.1
9.1.3	Findings from Service Specification for VTS Route Exchange
9.1.4	Common data model on the information exchange on VTS Requirements and Procedures
9.1.5	Plan for the development of a VTS Digital Information Service Testbed
7.2.3	Liaison Note on IALA digitalisation discussion paper

##### Comments:

These tasks have been carried over from the previous work period. Whilst we acknowledge this has been a long-term task (commenced VTS45) as it is complex, it is envisaged that this task will run for a number of years. It is planned to be able to publish editions at suitable intervals. During VTS58, the task group acted on the input papers from China MSA, Fintraffic and KRISO and this has resulted in a revision of the Service Design and Service Specification for route exchange 1.0 which was approved at VTS57.

WG2 also worked on the development of Technical Service Specifications for Under Keel Clearance (Task 2.5.2 d) and VTS information services (Task 2.5.2 e).

There are two intersessional meetings planned for the tasks 2.5.2d the development of Technical Service Specifications for Under Keel Clearance and 2.5.2e the development of Technical Service Specifications for VTS information services:

- Online 26 November 06:00 UTC to be published on the IALA VTS calendar, please inform [juho.pitkanen@fintraffic.fi](mailto:juho.pitkanen@fintraffic.fi) of your wish to participate by 31 October 2025.
- Physical intersessional meeting in Oostende 14 - 16 January 2026. Participants from both WG1 and WG2 are invited to join the meetings. To register interest to the meeting please notify [wim.smets@mow.vlaanderen.be](mailto:wim.smets@mow.vlaanderen.be) by 28 November 2025.

##### Key outcomes include:

One revised service specification, one revised service design and one liaison note.

##### Output:

- (1) Service specification for route exchange 1.1
- (2) Service Design for route exchange 1.1
- (3) LN response on LN input paper "Discussion on Task to Develop a Discussion Paper on Digitalisation in the Scope of IALA"



#### Action items:

*The Secretariat is requested to publish the following service design and service specification on IALA webpage - VTS58-12.2.4 Service Design for route exchange 1.1 and VTS58-12.2.3 the Service specification for route exchange 1.1.*

*The Secretariat is requested to forward Liaison Note on “Discussion on Task to Develop a Discussion Paper on Digitalisation in the Scope of IALA” (VTS58-12.2.2) to DTEC for their consideration.*

*The Secretariat is requested to consider exploring the possibility of using GitHub as a repository for technical services and product specifications, considering traceability of changes and comments.*

*The Secretariat is requested to invite a VTS Committee representative nominated by the CMT to the Steering Committee of the planned 3<sup>rd</sup> Joint IHO IALA Workshop on S100 and S200.*

*Committee participants are invited to join the online intersessional meeting working on Task 2.5.2d (Technical Service Specifications for Under Keel Clearance) and Task 2.5.2e (Technical Service Specifications for VTS information services). Interested participants are requested to notify Juho Pitkanen (juho.pitkanen@fintraffic.fi) of their wish to participate by 31 October 2025. The meeting will be published on the IALA VTS calendar and is scheduled for 26 November 2025.*

*Committee participants from both WG1 and WG2 are invited to join the physical intersessional meeting in Oostende to work on Task 2.5.2d (Under Keel Clearance) and Task 2.5.2e (VTS information services) from 14 to 16 January 2026. To register interest, participants are requested to notify Wim Smets (wim.smets@mow.vlaanderen.be) by 28 November 2025.*

*The Intersessional Task Group Leader(s) are requested to provide input on the intersessional work on Tasks 2.5.2d and 2.5.2e to VTS59.*

*The Secretariat is requested to forward the WP on the Architecture of the Digital Delivery of VTS Information (VTS58-12.5.2.1) as working paper to VTS59 for further development.*

*The Secretariat is requested to forward the WP Technical Service Specification for VTS UKC Service v0.5 (VTS58-12.5.2.4) as working paper to VTS59 for further development.*

*The Secretariat is requested to forward the WP VTS Digital Information Product Specification v0.7.3 (Task 2.8.1) (VTS58-12.5.2.5) as working paper to VTS59 for further development.*

*The Secretariat is requested to forward the WP Draft Service Specification for VTS Information Service v0.1 (VTS58-12.5.2.6) as working paper to VTS59 for further development.*

### 10.2 Task 2.8.2 Review and update Recommendation R0145 on the IVEF Service

**Task group leader:** Takuya Fukuda / Rene Hogendoorn

#### Input papers:

None

#### Comments:

The data model had been progressed and was mostly complete; a proposal for updates had been made to the IHO GI Registry. The workgroup identified issues with fitting the streaming data model with the existing S100 documentation templates.

#### Key outcomes include:

- Identifying new and updated concepts for the IHO GI Registry.

#### Output:



(1) S210 related Proposal to update the GI registry

**Action items:**

*The Secretariat is requested to forward Liaison Note on the requested changes detailed in output paper S-210 related proposals to update the GI Registry (VTS58-12.2.5) to the IHO GI Registry for their consideration.*

*The Secretariat is requested to invite expert(s) familiar with the streaming data in the scope of S100 to participate in VTS59. In particular, the impact on the S-100 template for the Product Specifications and related documentation.*

*The Secretariat is requested to forward the WP IVEF\_DD\_working\_copy\_v0.5 (VTS58-12.5.2.2) as working paper to VTS59 for further development.*

*The Secretariat is requested to forward the WP IVEF Technical Service Specification\_v0.3\_20240924 (VTS58-12.5.2.3) as working paper to VTS59 for further development.*

### 10.3 Task 2.8.6 Develop Recommendation and G/L on use of Drones for AtoN inspection & Maintenance

**Task Group Leader: Rob Townsend**

**Input Paper**

9.4.1	LN to VTS on the use of drones for AtoN inspection maintenance (ARM20-11.2.7)
9.4.1.1	Draft Guideline Drone Operation for AtoN Management (ARM20-11.2.7.1)

**Comments:**

The Working Group reviewed the two input papers and made a number of suggestions to ensure the documents properly accounted for VTS technical infrastructure.

**Key Outcomes include:**

Comments for ARM to review and assess for incorporation in the draft document on the use of drones for inspection maintenance.

**Output:**

(1) LN to ARM on the use of drones for AtoN management.

**Action item:**

*The Secretariat is requested to forward Liaison Note on the use of drones for AtoN management (VTS58-12.2.1) to ARM for their consideration.*

### 10.4 Other input documents

**Task group leader: Richard Aase**

**Input papers:**

7.2.4	Liaison note to VTS on Digitalisation of Waterways (DTEC4-15.3.6)
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**Key outcomes include:**

VTS welcomed and noted the Liaison Note from DTEC. The VTS Committee encourages members to attend the online inter-committee meeting on 6 November 2025, 09:00 – 10:30 UTC.

## 10.5 Additional tasks/work

### Review of Task Register

The Task Register was updated, noting that it is a living document on the website and will be reviewed at each meeting.

## 11. WORKING GROUP 3 – VTS TRAINING (WG3)

The Chair of the Working Group acknowledged all participants for their hard work during VTS58. Special thanks go to Carlos F. Salinas and Jockum Lundsten who announced that VTS58 was their last VTS Committee meeting. Both have been active members in Working Group 3 and have had a considerable impact on the documents the working group produced.

During VTS58 the working group met in a hybrid meeting environment and focused on the following items:

- Task 3.1.1 – Develop guidance for dealing with stress or trauma in VTS operations
- Task 3.4.1 – Develop guidance on aptitudes required by VTS Operators
- Task 3.8.1 – Revision of G1103 on Train the Trainer
- Task 3.8.2 – Develop guidance on remote training in VTS
- Task 3.8.7 – Revision of IALA Model Courses. Worked focused on:
  - 3.8.7c – Revision of C0103-5 (V-103/5) The Revalidation Process for VTS Qualification and Certification
- Task 3.8.8 - English Language competency requirements in VTS operations
- Task 3.9.1 – Consider relevant VTS documents to be revised/updated
- Additional items as identified during the meeting

All input papers identified for WG3 were addressed.

A number of intersessional sessions are planned to progress the work on tasks, as identified below. The dates and times of the intersessional meetings will be available on the website and in a table on the file-share under VTS WG3 Intersessional Meetings.

### 11.1 Task 3.1.1 - Develop guidance for dealing with stress or trauma in VTS operations

**Task group leader:** J Lundsten

**Input papers:**

VTS58-	10.1.4	Proposal on the Guidance for dealing with stress and trauma in VTS operations	Korea Coast Guard, Republic of Korea
VTS58-	10.1.5	Report of IG on Task 3.1.1	IG 3.1.1
VTS58-	10.1.5.1	Draft Revision Task 3.1.1 Guidance for dealing with stress and trauma in VTS operations	IG 3.1.1
VTS58-	10.1.6	Proposal for Draft Revision Task 3.1.1 Guidance for Dealing with Stress and Trauma in VTS Operations	China MSA

**Comments:**

Nayoung Kim from Korea Coast Guard presented their input paper, which could serve as a practical guidance applicable to future VTS Operator's education and training programs. The title of the document was discussed but left open for further consideration during the development of the guideline.

The Working Group reviewed the draft guideline and focused on Part A of the document where significant progress was made. The description of the concept of trauma and parts B and C require further review by the Working Group.

It was agreed that the work would continue through intersessional online meetings, which will be announced on the website and listed in the table of intersessional meetings on the file-share (VTS WG3 Intersessional Meetings).

The first intersessional meeting will be held online, using the VTS WG3 Plenary room:

- Wednesday 22nd October 2025, 10:00 – 11:30 UTC
- The second intersessional meeting will be determined during the first intersessional meeting

The Task Group Leader, Jockum Lundsten, announced his upcoming departure from IALA meetings. The Chair of Working Group 3 expressed appreciation for Jockum Lundsten's significant contributions to the new guidance. The role of Task Group Leader was transitioned from Jockum Lundsten to Michele Landi.

**Key outcomes include:**

- The Working Group reviewed the draft guideline and focused on Part A, where significant progress was made.
- The description of the concept of trauma and Parts B and C require further review by the Working Group.
- It was agreed that work would continue through intersessional online meetings, which will be announced on the website and listed in the table of intersessional meetings on the file-share (VTS WG3 Intersessional Meetings).
- The role of Task Group Leader was transitioned from Jockum Lundsten to Michele Landi.

**Output papers:**

None

**Action item(s):**

*The Secretariat is requested to forward the WP draft guideline on dealing with stress and trauma in VTS operations (VTS58-12.5.3.1) as a working paper to VTS59 for further development.*

*The Committee participants interested in participating in Task 3.1.1 – develop guidance for dealing with stress and trauma in VTS are invited to contact Michele Landi ([michele.landi@mit.gov.it](mailto:michele.landi@mit.gov.it)) by the 16 October 2025, noting the dates and times of the intersessional meetings will be published on the IALA VTS Committee Dashboard and on the table of intersessional meetings on the IALA file-share, VTS WG3 Intersessional Meetings.*

*The Intersessional Task Group Leader to provide input on the intersessional work on task 3.1.1 to VTS59.*

**11.2 Task 3.4.1 - Guidance on aptitudes required for VTS Operators**

**Task Group Leader:** Y Nakai

**Input papers:**

VTS58-	10.1.1	Report of IG on Task 3.4.1-Develop guidance on aptitudes required by VTS operators	IG 3.4.1
VTS58-	10.1.1.1	Draft Guideline on Aptitudes required by VTS operators	IG 3.4.1

**Comments:**

The Task Group Leader noted that, thanks to the cooperation of the Committee participants, 433 responses were received to the questionnaire on identifying the aptitudes and behaviours of successful VTS operators. The full results were presented during the meeting and the presentation will be available as a working paper for VTS59.

The task was identified for this work term recognising G1156, Section 5 – Selection and Recruitment. To confirm the association with the IALA Standard and Recommendation, there were options discussed which included:

- R0103 – however there is no informative guideline associated with R0103 and this may necessitate a change to the Recommendation
- R0127 – which does include informative guidelines.

It was agreed to consider this further as the guideline develops.

The working paper will be forwarded to VTS59 for further development.

It was agreed that the work would continue during intersessional online meetings and the outcomes of the intersessional work will be submitted for further consideration at VTS59.

The proposed dates for the intersessional meetings will be:

- Wednesday 26 November 2025, 1000-1130 UTC
- Wednesday 14 January 2025, 1000-1130 UTC.

**Key outcomes included:**

- 433 responses were received to the questionnaire on identifying the aptitudes and behaviours of successful VTS operators and the full results were presented during the meeting and the presentation will be made available as a working paper for VTS59.
- To confirm the association with the IALA Standard and Recommendation, options discussed included R0103 or R0127. It was agreed to consider the appropriate association further as the guideline develops.
- It was agreed that work would continue during intersessional online meetings and the outcomes will be submitted for further consideration at VTS59.

**Output:**

None

**Action item(s):**

*The Secretariat is requested to forward the WP draft guideline on aptitudes required for VTS Operators (VTS58-12.5.3.2) and WP results of the questionnaire (VTS58-12.5.3.3) as working papers to VTS59 for further development.*

*Committee participants are asked to provide information on current practices related to “4.2.2. Accuracy Under Time Pressure Test” and “4.2.3. Working Memory Test” in the draft guideline, to Y Nakai ([ynakai@toyoshingo.co.jp](mailto:ynakai@toyoshingo.co.jp)) in order to assist task 3.4.1.*

*The Committee participants interested in participating in Task 3.4.1 Guidance on aptitudes required for VTS Operators are invited to contact Y Nakai ([ynakai@toyoshingo.co.jp](mailto:ynakai@toyoshingo.co.jp)) by 17 November 2025, noting the dates and*

*times of the intersessional meetings will be published on the IALA VTS Committee Dashboard and on the table of intersessional meetings on the IALA file-share, VTS WG3 Intersessional Meetings.*

*The Intersessional Task Group Leader to provide input on the intersessional work on task 3.4.1 to VTS59.*

### 11.3 Task 3.8.1 – Revision of G1103 on Train the Trainer

**Task group leader:** J Carson-Jackson

**Input papers:**

VT558-	10.1.7	Proposal on Revising the IALA G1103 Train the Trainer	China MSA
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**Comments:**

The Working Group noted the outcomes of VTS57, including the fact that:

- There are different approaches to ensure educational competence – ‘Train the Trainer’, which include the use of IMO Model Courses 6.09 (for train the trainer), 6.10 (for train the simulator trainer) and national requirements for instructors that may be identified by law to be able to teach.
- Elements of the existing G1103 have already been integrated into other documents – for example, task analysis is included in the revision of G1156 and debriefing techniques are included in the revision of G1027.
- The additional information in G1103 remains useful but is not presented in line with the IALA model course structure – for example, G1103 presents 6 competence levels, while the IALA VTS Model Courses use 5 competence levels.
- Guidance on the use of the IALA VTS Model Courses, including the use of the session objectives and elements, as well as the sequencing of content from within the modules, would be valuable.

A presentation from Italian Coast Guard provided further insights into the implementation of the model course, sharing their experience in applying the Model Courses to design training programmes within the national context.

The presentation highlighted the previously agreed need for the development of a new guideline to assist Member States in interpreting and implementing the Model Courses, as well as in designing corresponding syllabus. This new guideline should take into account the content of Guideline G1103 *Train the Trainer*, noting the elements which remain relevant.

The presentation and discussion highlighted the value of guidance on the use of the model courses, including:

- The taxonomies used to develop the action verb list for the model courses (development of the model courses used cognitive – Bloom; Psychomotor – Dave; Affective – Krathow)
- The model course format, including the ‘session objective’ and ‘subject elements’, noting these were never designed to be complete learning objectives (there is a need to develop these into full learning objectives that include the three elements of performance, standard and condition and are also verified as ‘SMART’)
- The level of ‘competence’, including the process to determine the approach when multiple levels may be included in the same session objective
- The process of sequencing elements of modules to best address training
- The role of simulation within a competence training framework

Based on the discussions and input received, it was agreed to have an intersessional to develop the new task proposal for the development of a new guideline on the implementation of IALA [VTS] Model Courses, to reflect the current task on the review of G1103 and provide input for the work programme for 2027 - 2030.

The intersessional meeting will be held online, using the VTS WG3 Plenary room:

- 13 January 2026, 10:00 – 11:30 UTC

**Key outcomes included:**

- The Working Group noted the outcomes of VTS57, including the range of approaches used to ensure educational competence. These include 'Train the Trainer' schemes supported by IMO Model Courses 6.09 and 6.10, as well as national requirements for instructor qualifications.
- Elements of Guideline G1103 have already been integrated into other documents: task analysis is included in the revision of G1156 and debriefing techniques are included in the revision of G1027.
- A presentation from the Italian Coast Guard provided insights into national implementation of the model courses and reinforced the need for a new guideline to assist Member States in interpreting and applying the Model Courses.
- The new guideline should take into account relevant content from G1103 Train the Trainer.
- It was agreed to hold an intersessional meeting to develop a new task proposal for a guideline on the implementation of IALA VTS Model Courses. This will reflect the ongoing review of G1103 and inform the 2027 - 2030 work programme.

**Output:**

None

**Action item(s):**

*The participants interested in participating in Task 3.8.1 Review of G1103 are invited to contact J Carson-Jackson ([jillian@jcjconsulting.net](mailto:jillian@jcjconsulting.net)) by 10 January 2026, noting the dates and times of the intersessional meetings will be published on the IALA VTS Committee Dashboard and on the table of intersessional meetings on the IALA file-share, VTS WG3 Intersessional Meetings.*

*The Intersessional Task Group Leader to provide input on the intersessional work on task 3.8.1 to VTS59.*

#### 11.4 Task 3.8.2 - Develop a Guideline for remote training in VTS

**Task group leader:** J Carson-Jackson

**Input papers:**

VTS58-	10.1.9	Report of IG on Task 3.8.2-Remote Training in VTS-rev1	IG on Task 3.8.2
VTS58-	10.1.9.1	Draft Guideline Remote Train VTS-post ITG	IG on Task 3.8.2

**Comments:**

Building on the work carried out at VTS57 and the input paper provided following the intersessional meeting, the draft guideline on remote training in VTS was reviewed in detail. The working document will be sent to VTS59.

It was agreed that the work would continue during intersessional online meetings.

The intersessional meetings will be held online, using the VTS WG3 Plenary room:

- 16 December 2025, 10:00 - 11:30 UTC

- 27 January 2026, 10:00 - 11:30 UTC

**Key outcomes include:**

None

**Output:**

None

**Action item(s):**

*The Secretariat is requested to forward the WP draft guideline on remote training in VTS (VTS58-12.5.3.4) as working papers to VTS59 for further development.*

*The Committee participants interested in participating in Task 3.8.2 - guidance on remote training in VTS are invited to contact J Carson-Jackson ([jillian@jcjconsulting.net](mailto:jillian@jcjconsulting.net)) by the 10 December 2025, noting the dates and times of the intersessional meetings will be published on the IALA VTS Committee Dashboard and on the table of intersessional meetings on the IALA file-share, VTS WG3 Intersessional Meetings.*

*The Intersessional Task Group Leader to provide input on the intersessional work on task 3.8.2 to VTS59.*

### 11.5 Task 3.8.7c - Revision of IALA VTS Model Courses (C0103-5)

**Task group leader:** J Carson-Jackson

**Input papers:**

VTS58-	10.1.1	Proposal on Revising Model Course C0103-5	China MSA
VTS58-	10.1.2	Report of ITG on Task 3.8.7c	IG on Task 3.8.7.c
VTS58-	10.1.2.1	Revised C0103-5 for VTS58	IG on Task 3.8.7.c
VTS58-	10.1.2.2	Revised G1156 for VTS58	IG on Task 3.8.7.c
VTS58-	10.1.3	Review of Model Course 103-5 - Revalidation training	AMSA
VTS58-	10.1.10	Proposed Improvements to latest draft of C0103-5 and G1156	AMSA
VTS58-	10.1.10.1	Proposed Improvements to VTS58-10.1.2.1 Revised C0103-5 for VTS58	AMSA
VTS58-	10.1.10.2	Proposed Improvements to VTS58-10.1.2.2 Revised G1156 for VTS58	AMSA

**Comments:**

The review of C0103-5 noted the principles that have been guiding the review of all IALA VTS Model Courses and specific elements for C0103-5 as included in VTS58-10.1.2.

**Agreement**

- *Rename C0103-5 to reflect Revalidation training only (as per the wording in IMO Res. A.1158(32))*
- *Revise G1156 to provide guidance on the process to maintain competence.*

**Guiding principles:**

- *Use existing C0103-5 as basis for review.*
- *Clearly identify process for ensuring competence (note terminology in the IMO Resolution).*



- *Training needs to be flexible while reflecting the updated model course format/competence level required.*
- *Add in clear guidance on adaptation and updating training (note – this has been added to the revision of G1156).*

As agreed at VTS57, noting the focus of C0103-5 for Revalidation Training, the concept of updating and adaptation training was removed from the Model Course and included in G1156.

C0103-5 and G1156 were reviewed in parallel through intersessional work, with the results of the discussion forwarded to the full committee for consideration. As noted in VTS58-10.1.2, Committee members were requested to review the draft revised model course C0103-5 and G1156, noting it is proposed to complete this work at VTS58.

Input on the draft model course and revision of G1156 was received and reviewed in detail. In particular, the input from China MSA (10.1.1) and AMSA (10.1.3) provided opportunity to enhance and revise the output of the ITG.

While input provided by AMSA in 10.1.10.2 was recognized as valuable, the changes proposed went beyond the update of G1156 to be in line with the revised focus of C0103-5. In addition, during development of Task 3.8.2 (Develop a guideline on Remote Training in VTS) it was noted that changes to both G1156 and G1014 may be required.

It was agreed, therefore, to update G1156 in a stepwise fashion:

**Update 1** – in line with revised C0103-5, noting the need to include a process for maintaining qualifications, including updating and adaptation training (new section 9 in G1156), with consequential updates to ensure wording in G1156 reflects the IMO Resolution A.1158(32), including a revision of the definitions in section 11 (with references provided). It is noted that this may require updates to the IALA Dictionary.

**Update 2** – to be carried out in line with other work, including the identified update for G1014. It is noted that this work may commence at VTS59, but is likely to be included in the work programme for IALA Committees for 2027-2030.

The revised and renamed Model Course C0103-5 and the first step update of G1156 were agreed at VTS58 to be forwarded to Council for approval.

#### **Key outcomes include:**

- It was agreed to rename Model Course C0103-5 to Revalidation Training for VTS Personnel in order to reflect its focus on Revalidation Training, in line with IMO Resolution A.1158(32).
- G1156 will be revised to include guidance on maintaining competence, including updating and adaptation training.
- C0103-5 and G1156 were reviewed in parallel through intersessional work, with input received from China MSA and AMSA.
- A stepwise approach was agreed for updating G1156:
  - **Update 1** aligns with the revised C0103-5 and includes a new section on maintaining qualifications, revised definitions and references to IMO Resolution A.1158(32).
  - **Update 2** will address broader changes, including links to G1014 and is expected to form part of the 2027–2030 work programme.
- The revised and renamed Model Course C0103-5 and the first step update of G1156 were agreed at VTS58 to be forwarded to Council for approval.

#### **Output:**

- (1) Revised and renamed Model Course C0103-5 Revalidation Training for VTS Personnel
- (2) Revised Guideline G1156 Recruitment, Training and Certification of VTS Personnel

#### *Action item(s):*



The Secretariat is requested to forward document C0103-5 Model Course on Revalidation Training for VTS Personnel (VTS58-12.3.2) and the revised Guideline G1156 on Recruitment, Training and Certification of VTS Personnel (VTS58-12.3.3) to Council for approval, noting the stepwise approach to be taken to update G1156.

*Committee participants are requested to provide input to be considered at VTS59 on the revision of G1014 and G1156.*

## 11.6 Task 3.8.8 English Language Competency requirements in VTS operations

**Task group leader:** S Choi

### Input papers:

VTS58	10.2.1	Input paper on the report of IG on Task 3.8.8-Competency in VTS Communications	IG 3.8.8
VTS58-	10.2.1.1	Draft Guideline on Competency in VTS Communications	IG 3.8.8
VTS58-	10.2.1.2	Draft revision of R1012 VTS Communications	IG 3.8.8

### Comments:

The draft Guideline (VTS58-10.2.1.1), developed through intersessional meetings after VTS57, was finalized as a consolidated text following full review.

With regard to the title of this Guideline, it was agreed that VTS English Communication Competency Testing would be retained. This reflects its foundation in Guideline G1132, which was developed on the basis of VTS communications in English, while also acknowledging that VTS services may operate in different languages depending on national practice.

The new Guideline was agreed to be forwarded to Council for approval.

To maintain alignment among IALA documents, revisions to Recommendation R1012 VTS Communications were finalized in cooperation with WG1 and submitted to the Committee for approval. Guideline G1132 VTS Voice Communications and Phraseology, is considered for submission as formal Input Paper at VTS59, following the approval of this Guideline by the Council.

During VTS58 WG3 and WG1 met to discuss comments identified for G1132. It was agreed to continue this at VTS59.

### Key outcomes include:

- The draft Guideline (VTS58-10.2.1.1) was finalised.
- The title “VTS English Communication Competency Testing” was retained, reflecting its foundation in Guideline G1132.
- Revisions to Guideline G1132 is to be considered for submission as Input Paper at VTS59.
- WG3 and WG1 met during VTS58 to discuss comments on G1132 and R1012, with agreement to continue this work at VTS59.

### Output papers:

- (1) New Guideline on VTS English Communication Competency Testing

### Action Items:

*The Secretariat is requested to forward document GNNN Guideline on VTS English Communication Competency Testing (VTS58-12.3.4) to Council for approval.*

## 11.7 Additional tasks/work

During the meeting the Working Group reviewed and noted additional documents as identified by the Chair and Vice-Chair of the Committee for review by all working groups.

### Input papers:

VT558-	3.2.1	Liaison note to All Committees on the AIS Model course (ARM20-11.2.1)	ARM
VT558-	3.2.1.1	Overview AIS model course (ARM20-11.2.1.1)	ARM

The working group noted the overview of the content of the AIS model course and provided proposals to assist in further development of the model course.

### Action item:

*The Secretariat is requested to forward Liaison Note on the Revision of AIS Model Course (VT558-12.3.1) to ARM for their consideration.*

## 12. ANY OTHER BUSINESS

### GNSS Interference – RIN Survey Initiative

Under AOB, the Committee was informed by Technical Operations Manager, Thomas Southall, that the Royal Institute of Navigation (RIN) had launched an initiative to assess the extent of GNSS jamming and spoofing in the maritime sector. It was noted that IALA had expressed interest in supporting this work.

The Committee heard that GNSS interference had become an increasing concern, with potential implications for navigational safety. A maritime-focused report was being developed by RIN, modelled on the OPSGROUP aviation spoofing report. As part of this, a survey had been issued to collect operational experiences of GNSS disruption.

Participants were asked to consider any relevant VTS experience, either direct or via vessel reports and to share the survey with colleagues and contacts across the sector. It was emphasised that wider participation would strengthen the quality and representativeness of the final report.

### Useful Links:

- [GNSS Interference Survey](#)
- [Join the RIN Maritime Working Group Discord Channel](#) – if you would like to get more involved with this project.

### DTEC5 Presentations

The Committee was informed of the upcoming DTEC opening plenary, scheduled to take place on 29 September 2025 from 10:00 to 13:00 Central European Time. Online participation would be welcomed, particularly for those with an interest in VTS-related developments.

Eight presentations are scheduled, covering a range of emerging technologies and operational topics relevant to the Committee's work:

- MS@MS technology (Buyoung Kim, Dr Wooseng Shim, KRISO)
- Digitalisation of VHF voice communication (Konishi Takahiko, JCG)
- Sharing of Singapore Maritime Digital Twin Developments (Luthfi Bafana, MPA)
- Presentation on Large Language Models: Applications and Opportunities for VTS (Dr Zhao Liangbin and Dr Fu Xiuju, MPA)

- Communication Performance Evaluation of VDES in Tokyo Bay (Koichi Nishimura, TST Corporation)
- Overview of the Nelson project (Olli Soininen, Fintraffic)
- MMS/SECOM, MMS/VDES, MCP and live demonstrations of the MSR and Trust System (Lars Moltsen, Mads Svendsen, Jin Hyoun Park, Thomas Christensen)
- Digital VHF radios (Jeffrey van Gils, scheduled for the Friday closing plenary)

Interested participants were encouraged to consult the DTEC calendar for further details. The link to join the plenary could be found on the DTEC dashboard.

#### Venue of Future Sessions

Confirmation of the location for the second-half 2026 VTS session is still pending. A circular letter will be issued shortly if there is need to seek a host. The March 2026 session will be held at the current headquarters. Participants are invited to discuss potential hosting options with their organisations if the need arises.

#### Seminar Proposal on VTS Experiences and Challenges

The Seminar in Spain will be held from 2 - 4 June 2026. Members are encouraged to plan attendance, with particular focus on current operational staff attending as this is the target audience. Further details will be published on the website.

#### Work Programme and Task Proposals

Participants were reminded to consider new task proposals for the 2027–2030 work programme. The procedure for submission of proposals will be confirmed in due course.

#### Upcoming Events

The Sustainability Workshop in Dublin will take place from 6 - 10 October 2025. Registration closes on 30 September. Participants were encouraged to register promptly if planning to attend.

#### Juan Carlos Salinas

Juan Carlos Salinas was recognized for his long-standing contribution to VTS training and Committee work since 2013. This session marks his retirement from formal participation, though he is expected to continue supporting the seminar in Gijón in 2026. The Committee expressed sincere thanks and best wishes for the future.

### **13. SUMMARY OF OUTPUT AND WORKING PAPERS**

The Working Group Chairs reported on the work carried out by their Working Groups.

Outputs from VTS58 were approved by the Committee using the approval procedure. The output documents and working papers are listed in Annex D.

### **14. REVIEW OF SESSION REPORT**

The draft report of the meeting (VTS58-13.1) was approved by the Committee at the Closing Plenary.

### **15. DATE AND VENUE OF NEXT MEETINGS**

VTS59 is planned to be held between 2 – 6 March 2025 at Headquarters, Saint Germain-en-Laye, France.

Other IALA events will be publicised on the IALA website.

## 16. CLOSING OF THE MEETING

The Chair thanked all Committee participants for their engagement and hard work throughout the week and expressed hope that all would return for VTS59. She noted with satisfaction the progress made and appreciated the collaborative spirit shown during discussions. Thanks were extended to all Chairs, Vice-Chairs, Task Group Leaders and participants for their contributions.

Farewell remarks were given at the physical week by the Technical Director, Minsu Jeon, who thanked all contributors and wished participants a pleasant weekend and safe travels.

The Deputy Secretary-General, Omar Eriksson, addressed the online Closing Plenary and also thanked participants for their efforts, acknowledging the balance many had maintained between committee work and professional responsibilities at home.

The Chair invited any final comments from participants, none were raised, and closed the session.

## 17. LIST OF ANNEXES

### A. Agenda

A copy of the agenda is at Annex A.

### B. Participants list

A list of participants is at Annex B.

### C. Input Papers

A list of input papers is at Annex C.

### D. Output and Working papers

A list of output and working papers is at Annex D.

### E. Action Items

A list of action items is at Annex E.

### F. Working Group Participants Lists

Lists of working group participants is at Annex F



## 58<sup>th</sup> Meeting of the Vessel Traffic Services Committee (VTS58)

The physical week of the 58<sup>th</sup> session of the VTS Committee will take place on the 22 – 26 September 2025 at the IALA HQ, Saint Germain-en-Laye, France. Please note that the Opening Plenary will be held virtually on Friday 19 September 2025 starting at 11:00 UTC. The Closing Plenary will be held online on Thursday 2 October 2025 starting at 11:00 UTC.

### Agenda

1. Introduction
  - 1.1. Welcome from the Secretary-General
  - 1.2. Approval of agenda
  - 1.3. Apologies
  - 1.4. Working arrangements
2. Review of action items from last session
  - 2.1. Review of action items from VTS57
3. Reports from other bodies
  - 3.1. IALA
    - 3.1.1. IALA Council
    - 3.1.2. IALA Policy Advisory Panel (PAP)
  - 3.2. IMO
  - 3.3. IHO
  - 3.4. ITU
  - 3.5. IEC
4. Reports from rapporteurs
  - 4.1. MASS related to VTS Neil Trainor
5. Presentations
  - 5.1. IALA VTS Questionnaire Minsu Jeon and KRISO
  - 5.2. AI-based VTS Communication Testing Professor Seunghee Choi
  - 5.3. IALA World Wide Academy Update WWA
6. Work programme management
  - 6.1. Work Programme, Task Plan, Task Register
7. Review of input papers
  - 7.1. Input papers
  - 7.2. Input papers not related to an existing task
8. Introducing WG1 - Operations

- 8.1. VTS implementation
- 8.2. VTS operations
- 8.3. VTS communications
- 8.4. VTS auditing and assessing
- 8.5. VTS Manual updates
- 8.6. VTS Questionnaire
- 8.7. Additional tasks/work
- 9. Introducing WG2 - Technology
  - 9.1. VTS data and information management
  - 9.2. VTS technology
  - 9.3. Data models and data encoding
  - 9.4. Additional tasks/work
- 10. Introducing WG3 - VTS training
  - 10.1. Training and assessment
  - 10.2. Accreditation, competency, certification and revalidation
  - 10.3. Capacity building
  - 10.4. Additional tasks/work
- 11. Any other business
- 12. Summary of output and working papers
  - 12.1. WG1 output
  - 12.2. WG2 output
  - 12.3. WG3 output
  - 12.4. Committee wide
  - 12.5. Working papers
- 13. Review of session report
- 14. Date and venue of next meeting
- 15. Close of the meeting

## ANNEX B

## LIST OF PARTICIPANTS

First name	Last name	Member type	Member Country	Organisation	Email
Neil	Trainor	Sister Organisations		International Harbour Masters Association	<a href="mailto:neil.trainor@hotmail.com">neil.trainor@hotmail.com</a>
Kerrie	Abercrombie	Member State	Australia	Australian Maritime Safety Authority	<a href="mailto:kerrie.abercrombie@amsa.gov.au">kerrie.abercrombie@amsa.gov.au</a>
Els	Bogaert	Member State	Belgium	Agency for Maritime and Coastal Services	<a href="mailto:els.bogaert@mow.vlaanderen.be">els.bogaert@mow.vlaanderen.be</a>
Sil	Janssens	Member State	Belgium	Agency for Maritime and Coastal Services	<a href="mailto:sil.janssens@cgi.com">sil.janssens@cgi.com</a>
Stefaan	Priem	Member State	Belgium	Agency for Maritime and Coastal Services	<a href="mailto:stefaan.priem@mow.vlaanderen.be">stefaan.priem@mow.vlaanderen.be</a>
Wim	Smets	Member State	Belgium	Agency for Maritime and Coastal Services	<a href="mailto:wim.smets@mow.vlaanderen.be">wim.smets@mow.vlaanderen.be</a>
Kevin	Vervoort	Affiliate	Belgium	Port of Antwerp - Bruges	<a href="mailto:kevin.vervoort@portofantwerpbruges.com">kevin.vervoort@portofantwerpbruges.com</a>
Henry	Arriagada	Member State	Chile	Minister of Foreign Affairs of Chile	<a href="mailto:harriagada@directemar.cl">harriagada@directemar.cl</a>
Antonio	Oliveira	Member State	Brazil	Marinha do Brasil	<a href="mailto:acarlosoliv@yahoo.com.br">acarlosoliv@yahoo.com.br</a>
Maria	Wilson	Member State	Canada	Canadian Coast Guard	<a href="mailto:maria.wilson@dfo-mpo.gc.ca">maria.wilson@dfo-mpo.gc.ca</a>
Wang	Chen	Member State	China	Ministry of Transport	<a href="mailto:2634543@qq.com">2634543@qq.com</a>
Rucun	Jia	Member State	China	Maritime Safety Administration	<a href="mailto:rucun.jia@163.com">rucun.jia@163.com</a>
Chao	Liang	Member State	China	Maritime Safety Administration	<a href="mailto:743454011@qq.com">743454011@qq.com</a>

First name	Last name	Member type	Member Country	Organisation	Email
Xuetao	Sun	Affiliate Industrial	China	CSSC PRIDe	<a href="mailto:66629750@qq.com">66629750@qq.com</a>
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All papers are posted on the Committee section of the IALA website. Items in blue = late or updated paper.

Meeting	Paper Number	Input Paper Title	Source	Allocation
VTS58-	1.2.1	Provisional Agenda	Secretariat	All
VTS58-	1.4.1	Programme of the Week	Secretariat	All
VTS58-	2.1	VTS57 Action Items	Secretariat	All
VTS58-	3.2.1	Report on MSC110	Secretariat	All
VTS58-	3.2.2	Report on NCSR 12 v2	Secretariat	All
VTS58-	3.4.1	IALA Report on ITU-R WP5B meeting 29 April to 8 May 2025	Secretariat	All
VTS58-	7.0	Input paper committee meeting template	Secretariat	All
VTS58-	7.1.1	Input Paper List	Secretariat	All
VTS58-	7.1.2	Working paper list	Secretariat	All
VTS58-	7.2.1	Liaison note to All Committees on the AIS Model course (ARM20-11.2.1)	ARM20	All
VTS58-	7.2.1.1	Overview AIS model course (ARM20-11.2.1.1)	ARM20	All
VTS58-	7.2.2	LN from ARM to VTS on G1185 OREI (ARM20-11.2.9)	ARM20	WG1
VTS58-	7.2.2.1	G1185 Ed1.0 Enhancing the safety around OREI post ARM20 (ARM20-11.2.9.1)	ARM20	WG1
VTS58-	7.2.3	Liaison note on IALA Digitalisation Discussion Paper (DTEC4-15.3.5)	DTEC4	WG1 and 2
VTS58-	7.2.4	Liaison note to VTS on Digitalisation of Waterways (DTEC4-15.3.6)	DTEC4	WG1 and 2
VTS58-	7.2.5	Proposal for new task revision of G1115 prepare for an IMSAS on VTS	CMSA	WG1
VTS58-	7.2.5.1	ANNEX A IALA Task Register	CMSA	WG1
VTS58-	7.2.5.2	ANNEX B content of the revised draft of the Framework and Procedures for IMSAS	CMSA	WG1
VTS58-	7.2.6	Proposal on Adding an Intelligent Management Information System to the Future VTS discussion paper	CMSA	WG1
VTS58-	7.2.6.1	ANNEX A Intelligent management information system (IMIS)	CMSA	WG1

Meeting	Paper Number	Input Paper Title	Source	Allocation
VTS58-	7.2.7	Report of near misses and accidents related to mechanical failure of vessels in VTS area	CMSA	All
VTS58-	7.2.8	Report of ARM MRN task group	ARM IG on MRN	WG1 and 2
VTS58-	7.2.9	Cover note - DanPilot's Remote Pilotage initiative	Secretariat	All
VTS58-	7.2.9.1	DanPilot - Remote Pilotage initiative correspondance	DanPilot	All
VTS58-	7.2.9.2	IMPA comments on Danpilot's Remote Pilotage Initiative	IMPA	All
VTS58-	7.2.10	ICAO CIRCULAR 364	Secretariat	All
VTS58-	7.2.10.1	circ364_en ICAO Aerodrome	ICAO	All
VTS58-	8.1.1	LN to all Committees Draft Recommendation on Digitalization of AtoN (ARM20-11.2.3)	ARM20	WG1
VTS58-	8.1.1.1	Draft Rec Digitalization of AtoN and Services for Vessels of Varying Levels of Autonomy (ARM20-11.2.5.1)	ARM20	WG1
VTS58-	8.1.2	Introduction of the Korea Coast Guard VTS Area Establishment Procedure	Korea Coast Guard	WG1
VTS58-	8.1.3	Proposal on Incorporating Content Related to VTS Area Delineation into G1150	CMSA	WG1
VTS58-	8.1.3.1	ANNEX A-G1150-Establishing, Planning and Implementing a VTS (Track Changes Version - China MSA)	CMSA	WG1
VTS58-	8.1.4	Task 1.1.5 - Responsibilities of a CA	IHMA	WG1
VTS58-	8.3.1	Proposal on the Draft Guideline on VTS Digital Communications	CMSA	WG1
VTS58-	8.3.2	Intersessional meeting Malmö 1 and 2 July 2025 TG1.3.1	IG 1.3.1	WG1
VTS58-	8.7.1	Proposal on revision of G1185	CMSA	WG1
VTS58-	8.7.1.1	Task register proposal 2028-2030(OREI)	CMSA	WG1
VTS58-	8.7.1.2	ANNEX G1185 Ed1.0 Enhancing the safety around OREI post ARM20 (ARM20-11.2.9.1)((revision)	CMSA	WG1
VTS58-	9.1.1	Proposals on the "Service Specification for VTS-Vessel Route Exchange Edition 1.0"	CMSA	WG2
VTS58-	9.1.2	Proposal for new subtask under task 2.5.2 on Service Specification for VTS Information Service	Fintraffic VTS	WG2
VTS58-	9.1.2.1	ANNEX A - Draft Service Specification for VTS Information service 0.1	Fintraffic VTS	WG2

Meeting	Paper Number	Input Paper Title	Source	Allocation
VT558-	9.1.3	Findings from Service Specification for VTS Route Exchange	Fintraffic VTS	WG2
VT558-	9.1.4	Common data model on the information exchange on VTS Requirements and Procedures	KRISO	WG2
VT558-	9.1.5	Plan for the development of a VTS Digital Information Service Testbed	KRISO	WG2
VT558-	9.4.1	LN to VTS on the use of drones for AtoN inspection maintenance (ARM20-11.2.7)	ARM20	WG2 + 1
VT558-	9.4.1.1	Draft Guideline Drone Operation for AtoN Management (ARM20-11.2.7.1)	ARM20	WG2 + 1
VT558-	10.1.1	Report of IG on Task 3.4.1-Develop guidance on aptitudes required by VTS operators	IG on Task 3.4.1	WG3
VT558-	10.1.1.1	Draft Guideline on Aptitudes required by VTS operators	IG on Task 3.4.1	WG3
VT558-	10.1.2	Report of ITG on Task 3.8.7c	IG on Task 3.8.7.c	WG3
VT558-	10.1.2.1	Revised C0103-5 for VT558	IG on Task 3.8.7.c	WG3
VT558-	10.1.2.2	Revised G1156 for VT558	IG on Task 3.8.7.c	WG3
VT558-	10.1.3	Review of Model Course 103-5 - Revalidation training	AMSA	WG3
VT558-	10.1.4	Proposal on the Guidance for dealing with stress and trauma in VTS operations	Korea Coast Guard	WG3
VT558-	10.1.5	Report of IG on Task 3.1.1	IG on Task 3.1.1	WG3
VT558-	10.1.5.1	Draft Revision Task 3.1.1 Guidance for dealing with stress and trauma in VTS operations	IG on Task 3.1.1	WG3
VT558-	10.1.6	Proposal for Draft Revision Task 3.1.1 Guidance for Dealing with Stress and Trauma in VTS Operations	CMSA	WG3
VT558-	10.1.7	Proposal on Revising the IALA G1103 Train the Trainer	CMSA	WG3
VT558-	10.1.8	Proposal on Clarification and Optimization of the Curriculum of Model Course C0103-5	CMSA	WG3
VT558-	10.1.9	Report of IG on Task 3.8.2-Remote Training in VTS-rev1	IG on Task 3.8.2	WG3

Meeting	Paper Number	Input Paper Title	Source	Allocation
VT58-	10.1.9.1	Draft Guideline RemoteTrainVTS-post ITG	IG on Task 3.8.2	WG3
VT58-	10.1.10	Proposed Improvements to latest draft of C0103-5 and G1156	AMSA	WG3
VT58-	10.1.10.1	Proposed Improvements to VTS58-10.1.2.1 Revised C0103-5 for VTS58	AMSA	WG3
VT58-	10.1.10.2	Proposed Improvements to VTS58-10.1.2.2 Revised G1156 for VTS58	AMSA	WG3
VT58-	10.2.1	Input paper on the report of IG on Task 3.8.8-Competency in VTS Communications	Korea Coast Guard	WG3
VT58-	10.2.1.1	Draft Guideline on Competency in VTS Communications	Korea Coast Guard	WG3 + 1
VT58-	10.2.1.2	R1012-Ed1.3-VTS-Communications-DRAFT 2025 track-mode	Korea Coast Guard	WG3 + 1

### Working papers from VT57

Meeting	Agenda Item	Working Paper Title	Source	Action
VT57-	12.5.1.1	WP revised guideline G1150 on Establishing, Planning and Implementing a VTS	WG1	to VT58
VT57-	12.5.1.2	WP draft guideline on Develop guidance on VTS digital communications	WG1	to VT58
VT57-	12.5.1.3	WP VTS digital communications annex	WG1	to VT58
VT57-	12.5.1.4	WP revised guideline G1141 on Operational Procedures for Delivering VTS	WG1	to VT58
VT57-	12.5.1.5	WP revised guideline G1089 on Provision of a VTS	WG1	to VT58

Meeting	Agenda Item	Working Paper Title	Source	Action
VTSS57-	12.5.2.1	WP draft Workshop proposal - FUTURE S-100 VTS SERVICES FOR THE MARITIME COMMUNITY	WG2	to VTSS58
VTSS57-	12.5.2.2	WP VTS Position paper on information exchange shore to shore 0.2 Task 2.8.2	WG2	to VTSS58
VTSS57-	12.5.2.3	WP IVEF Technical Service Specification v0.2	WG2	to VTSS58
VTSS57-	12.5.2.4	WP IVEF DD working copy v0.5	WG2	to VTSS58
VTSS57-	12.5.2.5	WP Excel Spreadsheet on task 2.8.2	WG2	to VTSS58
VTSS57-	12.5.3.1	WP annotated G1103	WG3	to VTSS58
VTSS57-	12.5.3.2	WP draft guideline on remote training in VTS	WG3	to VTSS58

**Output documents** are submitted to a body other than the Committee initiating the document for further review/action or as information.

Meeting	Output paper number	Output Paper Title	Source	Action
VT558-	12.1.2	Revised Recommendation R1012 on VTS Communications	WG1	Council
VT558-	12.1.3	LN to ARM on OREI	WG1	ARM
VT558-	12.1.4	Draft G1185 Ed1.0 Enhancing the safety around OREI with track changes	WG1	ARM
VT558-	12.1.5	LN to DTEC and ARM Recommendation Digitalization on AtoN and Services for Vessels of Varying Levels of Autonomy	WG1	DTEC and ARM
VT558-	12.1.6	Use Cases on VTS Digital communications	WG1	Secretariat
VT558-	12.2.1	LN to ARM on the use of drones for AtoN management	WG2	ARM
VT558-	12.2.2	LN to DTEC on digitalisation roadmap	WG2	DTEC
VT558-	12.2.3	Service specification route exchange v.1.1	WG2	Secretariat
VT558-	12.2.4	Service design route exchange v.1.1	WG2	Secretariat
VT558-	12.2.5	S-210 related proposals to update the GI registry	WG2	Secretariat
VT558-	12.3.1	LN to ARM on AIS Model Course	WG3	ARM
VT558-	12.3.2	Revised and renamed Model Course C0103-5 Revalidation Training	WG3	Council
VT558-	12.3.3	Revised Guideline G1156 Recruitment, Training and Certification of VTS Personnel	WG3	Council
VT558-	12.3.4	New Guideline on VTS English Communication Competency Testing	WG3	Council



**Working papers** will remain within the Committee for further review during VTS59.

Meeting	Agenda Item	Working Paper Title	Source	Action
VTS58-	12.5.1.1	WP draft guideline on Establishing, Planning and Implementing a VTS	WG1	to VTS59
VTS58-	12.5.1.2	WP draft guideline on Establishing a Regulatory Framework for VTS - Responsibilities of a Competent Authority	WG1	to VTS59
VTS58-	12.5.1.3	WP draft Use Cases on VTS Digital Communication	WG1	to VTS59
VTS58-	12.5.1.4	WP revised guideline G1141 on Operational Procedures for Delivering VTS	WG1	to VTS59
VTS58-	12.5.1.5	WP updated Discussion Paper on Future VTS	WG1	to VTS59
VTS58-	12.5.1.6	WP New Guideline on VTS Digital Communication	WG1	to VTS59
VTS58-	12.5.2.1	WP on the Architecture of the Digital Delivery of VTS Information	WG2	to VTS59
VTS58-	12.5.2.2	WP IVEF_DD_working_copy_v0.5	WG2	to VTS59
VTS58-	12.5.2.3	WP IVEF Technical Service Specification_v0.3_20240924	WG2	to VTS59
VTS58-	12.5.2.4	WP 2.5.2.d Technical Service Specification for VTS UKC service 0.5	WG2	to VTS59
VTS58-	12.5.2.5	WP VTS Digital Information product specification V0.7.3 DRAFT Task 2.8.1	WG2	to VTS59
VTS58-	12.5.2.6	WP Draft Service Specification for VTS Information service 0.1	WG2	to VTS59
VTS58-	12.5.3.1	WP draft guideline on dealing with stress and trauma in VTS operations	WG3	to VTS59
VTS58-	12.5.3.2	WP draft guideline on aptitudes required for VTS Operators	WG3	to VTS59
VTS58-	12.5.3.3	WP results of the questionnaire	WG3	to VTS59
VTS58-	12.5.3.4	WP draft guideline on remote training in VTS	WG3	To VTS59

*Action Items for the IALA Secretariat*

1. The Secretariat is requested to forward the WP draft guideline on Establishing, Planning and Implementing a VTS (VTS58-12.5.1.1) as a working paper to VTS59 for further development. 14
2. The Secretariat is requested to forward the WP draft guideline on Establishing a Regulatory Framework for VTS - Responsibilities of a Competent Authority (VTS58-12.5.1.2) as a working paper to VTS59 for further development. 15
3. The Secretariat is requested to forward revised overarching Recommendation R1012 on VTS Communication (VTS58-12.1.2) to Council for approval. 17
4. The Secretariat is further requested to publish the Use Cases on VTS Digital Communication (VTS58-12.1.6) on the IALA website under Topical Matters. 17
5. The Secretariat is also requested to forward WP draft Use Cases on VTS Digital Communication (VTS58-12.5.1.3) and WP New Guideline on VTS Digital Communication (VTS58-12.5.1.5) as working papers to VTS59 for further development. 17
6. The Secretariat is requested to forward Liaison Note on OREI (VTS58-12.1.3) and the accompanying draft revised guideline G1185 on Enhancing the safety around OREI (VTS58-12.1.4) to ARM for their consideration. 18
7. The Secretariat is requested to forward WP updated Discussion Paper on Future VTS (VTS58-12.5.1.6) as a working paper to VTS59 for further development. 21
8. The Secretariat is requested to forward Liaison Note on draft Recommendation on digitalization of Marine Aids to Navigation (VTS58-12.1.5) to DTEC and ARM for their consideration. 22
9. The Secretariat is requested to publish the following service design and service specification on IALA webpage - VTS58-12.2.4 Service Design for route exchange 1.1 and VTS58-12.2.3 the Service specification for route exchange 1.1. 24
10. The Secretariat is requested to forward Liaison Note on “Discussion on Task to Develop a Discussion Paper on Digitalisation in the Scope of IALA” (VTS58-12.2.2) to DTEC for their consideration. 24
11. The Secretariat is requested to consider exploring the possibility of using GitHub as a repository for technical services and product specifications, considering traceability of changes and comments. 24
12. The Secretariat is requested to invite a VTS Committee representative nominated by the CMT to the Steering Committee of the planned 3<sup>rd</sup> Joint IHO IALA Workshop on S100 and S200. 24
13. The Secretariat is requested to forward the WP on the Architecture of the Digital Delivery of VTS Information (VTS58-12.5.2.1) as working paper to VTS59 for further development. 24
14. The Secretariat is requested to forward the WP Technical Service Specification for VTS UKC Service v0.5 (VTS58-12.5.2.4) as working paper to VTS59 for further development. 24
15. The Secretariat is requested to forward the WP VTS Digital Information Product Specification v0.7.3 (Task 2.8.1) (VTS58-12.5.2.5) as working paper to VTS59 for further development. 24
16. The Secretariat is requested to forward the WP Draft Service Specification for VTS Information Service v0.1 (VTS58-12.5.2.6) as working paper to VTS59 for further development. 24

17. The Secretariat is requested to forward Liaison Note on the requested changes detailed in output paper S-210 related proposals to update the GI Registry (VTS58-12.2.5) to the IHO GI Registry for their consideration. 25
18. The Secretariat is requested to invite expert(s) familiar with the streaming data in the scope of S100 to participate in VTS59. In particular, the impact on the S-100 template for the Product Specifications and related documentation. 25
19. The Secretariat is requested to forward the WP IVEF\_DD\_working\_copy\_v0.5 (VTS58-12.5.2.2) as working paper to VTS59 for further development. 25
20. The Secretariat is requested to forward the WP IVEF Technical Service Specification\_v0.3\_20240924 (VTS58-12.5.2.3) as working paper to VTS59 for further development. 25
21. The Secretariat is requested to forward Liaison Note on the use of drones for AtoN management (VTS58-12.2.1) to ARM for their consideration. 25
22. The Secretariat is requested to forward the WP draft guideline on dealing with stress and trauma in VTS operations (VTS58-12.5.3.1) as a working paper to VTS59 for further development. 27
23. The Secretariat is requested to forward the WP draft guideline on aptitudes required for VTS Operators (VTS58-12.5.3.2) and WP results of the questionnaire (VTS58-12.5.3.3) as working papers to VTS59 for further development. 28
24. The Secretariat is requested to forward the WP draft guideline on remote training in VTS (VTS58-12.5.3.4) as working papers to VTS59 for further development. 31
25. The Secretariat is requested to forward document C0103-5 Model Course on Revalidation Training for VTS Personnel (VTS58-12.3.2) and the revised Guideline G1156 on Recruitment, Training and Certification of VTS Personnel (VTS58-12.3.3) to Council for approval, noting the stepwise approach to be taken to update G1156. 33
26. The Secretariat is requested to forward document GNNN Guideline on VTS English Communication Competency Testing (VTS58-12.3.4) to Council for approval. 33
27. The Secretariat is requested to forward Liaison Note on the Revision of AIS Model Course (VTS58-12.3.1) to ARM for their consideration. 34

#### *Action Items for Participants*

28. Committee participants are invited to join the intersessional group (Virtual meetings) working on the revision of guidance on establishing, planning and implementing a VTS, including guidance on delineating the VTS area and to express their interest to Heidi Clevett ([Heidi.clevett@mcga.gov.uk](mailto:Heidi.clevett@mcga.gov.uk)) by 30 October 2025, noting the dates and times of the intersessional meetings will be published on the IALA VTS Committee Dashboard. 14
29. The Intersessional Task Group Leader is requested to provide input on the intersessional work on tasks 1.1.4 to VTS59. 14
30. Committee participants are invited to review WP draft guideline on Establishing a Regulatory Framework for VTS - Responsibilities of a Competent Authority (VTS58-12.5.1.2) and provide comments and remarks as input to VTS59. 15

31. Committee participants are invited to review WP draft Use Cases on VTS Digital Communication (VTS58-12.5.1.3) and provide comments and remarks as input to VTS59. 17
32. Committee participants are further invited to note the invitation in Liaison Note (VTS58-7.2.4) from DTEC to participate in an inter-committee drafting meeting on 6 November 2025 at 09.00 UTC regarding the “Digitalization of Waterways”. 17
33. Committee participants are invited to join the intersessional group (virtual meetings) working on the review of Guideline G1089 on Provision of a VTS. Interested participants are requested to express their interest to Dorte Olbæk Hansen ([3e-soe-st103@mil.dk](mailto:3e-soe-st103@mil.dk)) by 15<sup>th</sup> of October 2025. Dates and times of the intersessional meetings will be published on the IALA VTS Committee Dashboard. 19
34. The Intersessional Task Group Leader is requested to provide input on the intersessional work on Guideline G1089 to VTS59. 19
35. Member States are encouraged to appoint a national coordinator (a single point of contact) responsible for the input of information into the VTS questionnaire and provide the contact information of this coordinator to the Secretariat by e-mailing Minsu Jeon ([mje@iala.int](mailto:mje@iala.int)) by 23 October 2025. 20
36. Committee participants are invited to join the online intersessional meeting working on Task 2.5.2d (Technical Service Specifications for Under Keel Clearance) and Task 2.5.2e (Technical Service Specifications for VTS information services). Interested participants are requested to notify Juho Pitkanen ([juho.pitkanen@fintraffic.fi](mailto:juho.pitkanen@fintraffic.fi)) of their wish to participate by 31 October 2025. The meeting will be published on the IALA VTS calendar and is scheduled for 26 November 2025. 24
37. Committee participants from both WG1 and WG2 are invited to join the physical intersessional meeting in Oostende to work on Task 2.5.2d (Under Keel Clearance) and Task 2.5.2e (VTS information services) from 14 to 16 January 2026. To register interest, participants are requested to notify Wim Smets ([wim.smets@mow.vlaanderen.be](mailto:wim.smets@mow.vlaanderen.be)) by 28 November 2025. 24
38. The Intersessional Task Group Leader(s) are requested to provide input on the intersessional work on Tasks 2.5.2d and 2.5.2e to VTS59. 24
39. The Committee participants interested in participating in Task 3.1.1 – develop guidance for dealing with stress and trauma in VTS are invited to contact Michele Landi ([michele.landi@mit.gov.it](mailto:michele.landi@mit.gov.it)) by the 16 October 2025, noting the dates and times of the intersessional meetings will be published on the IALA VTS Committee Dashboard and on the table of intersessional meetings on the IALA file-share, VTS WG3 Intersessional Meetings. 27
40. The Intersessional Task Group Leader to provide input on the intersessional work on task 3.1.1 to VTS59. 27
41. Committee participants are asked to provide information on current practices related to “4.2.2. Accuracy Under Time Pressure Test” and “4.2.3. Working Memory Test” in the draft guideline, to Y Nakai ([ynakai@toyoshingo.co.jp](mailto:ynakai@toyoshingo.co.jp)) in order to assist task 3.4.1. 28
42. The Committee participants interested in participating in Task 3.4.1 Guidance on aptitudes required for VTS Operators are invited to contact Y Nakai ([ynakai@toyoshingo.co.jp](mailto:ynakai@toyoshingo.co.jp)) by 17 November 2025, noting the dates and times of the intersessional meetings will be published on the IALA VTS Committee Dashboard and on the table of intersessional meetings on the IALA file-share, VTS WG3 Intersessional Meetings. 28

43. The Intersessional Task Group Leader to provide input on the intersessional work on task 3.4.1 to VTS59. 29
44. The participants interested in participating in Task 3.8.1 Review of G1103 are invited to contact J Carson-Jackson ([jillian@jcjconsulting.net](mailto:jillian@jcjconsulting.net)) by 10 January 2026, noting the dates and times of the intersessional meetings will be published on the IALA VTS Committee Dashboard and on the table of intersessional meetings on the IALA file-share, VTS WG3 Intersessional Meetings. 30
45. The Intersessional Task Group Leader to provide input on the intersessional work on task 3.8.1 to VTS59. 30
46. The Committee participants interested in participating in Task 3.8.2 - guidance on remote training in VTS are invited to contact J Carson-Jackson ([jillian@jcjconsulting.net](mailto:jillian@jcjconsulting.net)) by the 10 December 2025, noting the dates and times of the intersessional meetings will be published on the IALA VTS Committee Dashboard and on the table of intersessional meetings on the IALA file-share, VTS WG3 Intersessional Meetings. 31
47. The Intersessional Task Group Leader to provide input on the intersessional work on task 3.8.2 to VTS59. 31
48. The Secretariat is requested to forward document C0103-5 Model Course on Revalidation Training for VTS Personnel (VTS58-12.3.2) and the revised Guideline G1156 on Recruitment, Training and Certification of VTS Personnel (VTS58-12.3.3) to Council for approval, noting the stepwise approach to be taken to update G1156. 33
49. Committee participants are requested to provide input to be considered at VTS59 on the revision of G1014 and G1156. 33

First Name	Last Name	Organization	Working Group(s) Attended	Task worked on	Physical or online attendance
Richard	Jonker	Tidalis B.V.	Working Group 1	1.3.1	Physically
Remi	Hoeve	Ministry of Infrastructure and Watermanagement	Working Group 1	Tg 1.3.1 and 1.2.1	Physically
Fawziya	Al Dhaheri	Abu Dhabi Ports	Working Group 1	1.1.5	Physically
Loïc	Lelièvre	DGAMPA	Working Group 1	1.1.4	Physically
Barbara	Magro	Italian Coast Guard	Working Group 1	1.1.5	Physically
Jingjing	Yin	China MOT	Working Group 1	1.1.4, 1.9.1 1.9.4	Physically
Jüri	Ehandi	Estonian Transport Administration	Working Group 1	1.3.1	Physically
Øystein	Jørgensen	Kongsberg Norcontrol	Working Group 1		Physically
Hans	Huisman	MARN	Working Group 1	1.3.1	Physically
Mehmet	Erdogan	Directorate General of Coastal Safet	Working Group 1		Physically
Antônio	Oliveira	Brasília Navy	Working Group 1	1.1.4	Physically
ADIL	AIT OUALIL	Tangier Med Port Authority	Working Group 1	1.3.1	Physically
Maiju	Kaski	Fintraffic VTS	Working Group 1	1.3.1 & 1.2.1	Physically
Maria	Wilson	Canadian Coast Guard	Working Group 1	1.1.4 and 1.1.5	Physically
Kevin	van Drongelen	Port of Rotterdam	Working Group 1	MASS and Future VTS	Physically
Hilbert	van Omme	Loodswezen	Working Group 1	1.1.3	Physically
Rosziyana	Binti Zain	Malaysia Marine Department	Working Group 1	1.9. 4	Physically
Scott	Whalen	U.S. Coast Guard	Working Group 1	1.1.4 & 1.1.5	Physically
Mayumi	Arita	Japan Coast Guard	Working Group 1	1.1.3 / 1.9.4	Physically
Maarten	Berrevoets	Ministry of Infrastructure & Water management	Working Group 1	1.1.3a, 1.1.5, 1.8.5	Physically
John	Stone	U.S. Coast Guard	Working Group 1	1.1.3, 1.8.5, 1.9.1	Physically
Manuel	Maias	DGRM	Working Group 1	1.1.3. and 1.9.4	Physically

First Name	Last Name	Organization	Working Group(s) Attended	Task worked on	Physical or online attendance
Malin	Dreijer	NCA	Working Group 1	1.3.1	Physically
Benjamin	Orcel	DGAMPA (France) - Generale Directorate of Maritime Affairs, Fishery and Aquaculture	Working Group 1	1.1.4 and 1.1.5	Physically
Keeta	Rowlands	Maritime & Coastguard Agency	Working Group 1	1.1.4 & 1.1.5	Physically
Toni	Sobott	Finnish Transport Infrastructure Agency	Working Group 1	1.1.3 / 1.8.5	Physically
Heidi	Clevett	maritime and coastguard agency	Working Group 1	1.1.4	Physically
Dorte	Hansen	Royal Danish Navy Surveillance Centre	Working Group 1	1.1.3/1.1.9	Physically
Jörg	Kuchta	GDWS	Working Group 1	1.1.3	Physically
Mariano Esteban	AVALOS	PREFECTURA NAVAL ARGENTINA	Working Group 1	1.1.3.a y 1.9.4	Remotely (online)
Milou	Aerts	Port of Rotterdam Authority	Working Group 1	1.3.1	Physically
Jeanette	Assev-Lindin	norwegian coastal administration	Working Group 1	1.1.4	Physically
Christian	Degner	Danish Emergency Management Agency	Working Group 1	1.1.5	Physically
Els	Bogaert	Shipping and Assistance Division	Working Group 1	Vice chair	Physically
Monica	Sundkleiv	Swedish Transport Agency	Working Group 1	Task 1.1.5 and 1.8.5	Physically
TAEJIN	KIM	Korea Coast Guard	Working Group 1	1.1.4, 1.1.5, 1.8.5	Physically
Yuwen	Yao	CHINA MSA	Working Group 1	1.1.4 1.8.5	Physically
Peter	Eade	Vissim	Working Group 1; Working Group 2	1.2.1 & 1.9.4	Remotely (online)
Chen	Wang	Transport planning and research Institute China	Working Group 1; Working Group 2	1.3.1	Physically
Minsu	Jeon	IALA	Working Group 1; Working Group 2; Working Group 3		Physically

First Name	Last Name	Organization	Working Group(s) Attended	Task worked on	Physical or online attendance
Matthew	Williams	IMPA	Working Group 1; Working Group 3		Physically
Gian Luca	Menabene	Italian Coast Guard	Working Group 1; Working Group 3	1.1.3, 1.9.4	Physically
Richard	Aase	Norwegian Coastal Administration	Working Group 2	All. WG chair	Physically
Robert	Townsend	MCA	Working Group 2	2	Physically
Taehee	Kim	Blumap	Working Group 2		Physically
domenico	febbo	elman srl	Working Group 2	2.5.2	Physically
KIM	YOUNGSHIN	Korea Coast Guard	Working Group 2	2.5.2	Physically
Mads	Kristoffersen	Terma	Working Group 2	2.8.2	Physically
Michael	Strandberg	Danish Maritime Authority	Working Group 2		Physically
Minsu	Jeon	IALA	Working Group 2	2.8.8 on S-210	Physically
Scott	Humphrey	Marine exchange of the San Francisco Bay Region	Working Group 2	2.8.2	Physically
Sewoong	OH	KRISO	Working Group 2	2.5.2, 2.8.1, 2.8.2	Physically
Wim	Smets	Agency for Maritime and Coastal Services	Working Group 2	2.5.2 / 2.8.1	Physically
Sil	Janssens	Maritieme Dienstverlening en Kust	Working Group 2	2.5.2/2.8.1	Physically
Youngshin	Kim	south Korea, Korean coast guard	Working Group 2	2.5.2	Physically
Michael	Strandberg	DMA	Working Group 2	2.5.2/2.8.1	Physically
Bjorn	Coster	Kongsberg Norcontrol	Working Group 2	2.5.2	Physically
Maya	San Francisco	DGAMPA - General Directorate for Maritime Affairs	Working Group 2	2.8.1	Physically
Pedro Pablo	Duarte Páez	Compañía Internacional de Integración	Working Group 2	2.8.6 Guideline on Drone / 2.5.2 / 2.8.1 Development Tec service	Physically
Ramin	Miraftabi	Fintraffic VTS	Working Group 2	2.8.2	Physically



First Name	Last Name	Organization	Working Group(s) Attended	Task worked on	Physical or online attendance
Pierre	Mingot	Cerema	Working Group 2	2.8.2	Physically
Juho	Pitkänen	Fintraffic VTS	Working Group 2	2.5.2	Physically
Yağız	Çimen	Havelsan AŞ	Working Group 2	2.5.2	Physically
wang	chen	China msa	Working Group 2	2.5.2	Physically
Sirpa	Kannos	Fintraffic VTS	Working Group 2	2.5.2	Physically
Lukas	Kussel	GDWS Germany	Working Group 2	2.5.2, 2.8.1 & 2.8.2	Physically
Johann	Larue	AIRBUS	Working Group 2	2.8.10 IVEF	Physically
jinfeng	xia	cssc pride(nanjing) atomospheric and oceanic	Working Group 2	2.5.2 and 2.8.1 and 2.8.2	Physically
SUN	XUETAO	CSSC PRIDE	Working Group 2	2.5.2 and 2.8.1	Physically
Sinikka	Hartonen	Kongsberg Norcontrol	Working Group 2	WG2, 2.5.2. and 2.8.1.	Physically
Younggeun	Lee	GC Co. Ltd	Working Group 2		Physically
Martijn	Ebben	Port of Rotterdam Authority	Working Group 2	Any/all	Remotely (online)
Takuya	Fukuda	Tokyo Keiki INC.	Working Group 2	2.8.2	Physically
Peter	Eade	Vissim	Working Group 2; Working Group 1	2.5.2 a-e	Remotely (online)
Dmitry	Rostopshin	ICS Technologies S.R.L.	Working Group 2; Working Group 3		Physically
Minsu	Jeon	IALA	Working Group 3	no idea about the numbers.....	Physically
Michele	Landi	Italian Coast Guard	Working Group 3	All	Physically
Elisa	Giangrasso	Italian Coast Guard	Working Group 3	All	Physically
Kevin	Vervoort	Port of Antwerp-Bruges	Working Group 3	3.1.1	Physically
Abdullah	Kızılelma	Directorate General of Coastal Safety	Working Group 3		Physically
Congbo	Yi	China MSA	Working Group 3		Physically
Michael	M Hansen	SIMAC	Working Group 3	All sessions	Physically
Jockum	Lundsten	Aboa Mare	Working Group 3	3.1.1	Physically

First Name	Last Name	Organization	Working Group(s) Attended	Task worked on	Physical or online attendance
NORANITA	MD SALEH	MALAYSIA MARINE DEPARTMENT	Working Group 3		Physically
Saori	Yamanouchi	Japan Coast Guard	Working Group 3	All WG3 tasks	Physically
Sari	Talja	Fintraffic VTS	Working Group 3		Physically
Mika	Halttunen	Fintraffic VTS	Working Group 3		Physically
Stefaan	Priem	Agency for Maritime Services and Coast	Working Group 3	All for WG3	Physically
Lorena	Garcia	Prefectura Naval Argentina	Working Group 3	3.1.1/ 3.8.1/ 3.8.2/ 3.8.7.c/ 3.8.8	Remotely (online)
Andreas	Keller	Foundation NNVO	Working Group 3		Physically
Nayoung	Kim	Korea Coast Guard	Working Group 3	Task 3.8.8	Physically
Jillian	Carson-Jackson	NI	Working Group 3		Remotely (online)
Seunghee	Choi	Korea Institute of Maritime and Fisheries Technology	Working Group 3	3.8.8.	Physically
Kerrie	Abercrombie	Australian Maritime Safety Authority	Working Group 3	All WG3 tasks	Remotely (online)
Yasuko	Nakai	TST Corporation	Working Group 3	All WG3 tasks	Remotely (online)
Scott	Jacobs	US Coast Guard	Working Group 3; Working Group 2; Working Group 1		Physically



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